

GRADUATE COUNCIL AGENDA

DECEMBER 19, 2024

1:00 PM

110 GRINTER HALL

I. ACTION ITEMS:

1. Minutes from the November 21, 2024, Graduate Council Meeting (Enclosure 1)

CERTIFICATES:

2. The College of Medicine seeks to create a graduate certificate in AI and Data Science in Healthcare (#19428). Dr. Carma Bylund, Dr. Mei Liu and Mr. Matt Mitterko will be present for discussion. (Enclosure 2)
3. The Herbert Wertheim College of Engineering seeks to create a graduate certificate in Advanced Transportation Technologies (#17938). Dr. Siva Srinivasan will be present for discussion. (Enclosure 3)

CONCENTRATIONS:

4. The College of Design, Construction and Planning seeks to cease participation in the Hydrologic Sciences concentration for the Master of Construction Management (M.C.M.), Master of Science in Construction Management (M.S.C.M.), and Doctor of Philosophy in Design, Construction and Planning with a concentration in Construction Management (Ph.D.) (#20677). Dr. Masoud Gheisari or Mr. Joseph Carroll will be present for discussion. (Enclosure 4)

MAJORS:

5. The Warrington College of Business seeks to create a major in Finance and Technology for the Master of Science (M.S.) (#20566). Mr. Michael Ryngaert will be present for discussion. (Enclosure 5)
6. The College of Design, Construction and Planning seeks to add a Project in lieu of Thesis (PILOT) option for the Master of Interior Design (M.I.D.) with a major in Interior Design (#20085). Dr. Sheila Bosch and Dr. Roberto Rengel will be present for discussion. (Enclosure 6)
7. The College of Agricultural and Life Sciences seeks to modify the curriculum for the major in Family, Youth and Community Sciences for the Master of Science (M.S.) (#20122). Dr. Kate Fogarty will be present for discussion. (Enclosure 7)

DEGREE PROGRAMS:

8. The College of Medicine seeks to create the new degree of Master of Healthcare Education (MHE) with a major in Artificial Intelligence (#18880). Dr. David Bloom will be present for discussion (Enclosure 8)
9. The College of Design, Construction and Planning seeks to modify the curriculum for the Master of

Interior Design (M.I.D.) degree (#20679). Dr. Sheila Bosch and Dr. Roberto Rengel will be present for discussion (Enclosure 9)

II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

10. Graduate Curriculum Committee – November Minutes and December Agenda (Enclosure 10)

11. Graduate Programs – Distance or Self-Supporting (No new items)

12. Graduate Student Success Center

GRADUATE COUNCIL MINUTES

NOVEMBER 21, 2024

1:00 PM

110 GRINTER HALL & Teleconference (Via Zoom)

MEMBERS PRESENT: Dr. Nicole Stedman (Chair), Dr. Linda Bloom, Dr. James Jawitz, Dr. Hitomi Greenslet, Dr. Abdoulaye Kane, Dr. Michael Martinez, Dr. Connie Mulligan, Dr. Joni Williams Splett, Dr. Weizhou Zhang, Kevin Senior (GSC rep), and Fatima Akinola (GSC alternate)

MEMBERS ABSENT: Dr. J.C. Bunch, Dr. Linjuan Rita Men, Dr. Pilar Useche, and Dr. Marta Wayne

GUESTS PRESENT: Dr. Casey Bullock (University Registrar), Chris Cook (College of Education), Dr. Cheryl Gater (Associate Provost and Director), Dr. Oliver Grundmann (College of Pharmacy), Diana Hull (Office of the Registrar), Dr. Stephan Jahn (College of Medicine), Dr. Jatinder Lamba (College of Pharmacy), Emely McKitrick (College of Pharmacy), Kim Mahoney (College of Pharmacy), Jeanna Mastrodicasa (Director, Office of Institutional Assessment), Dr. Tara Mathien (College of Education), Chris Newsom (Office of the Provost/Teaching and Technology), Dr. Johnathan Orsini (Office of the Provost/Teaching and Technology), Dr. Tobin Shorey (Undergraduate Curriculum Committee), Dr. Svetlana Stepchenkova (College of Health and Human Performance), Ashley Tidwell (Office of Admissions), and Dr. Daniel Wesson (College of Medicine)

STAFF PRESENT: Dr. Tom Kelleher, Chelsea Rojas, Frankie Tai (Recording), Patty Van Wert, and Stacy Wallace

The meeting was called to order at 1:01 p.m.

Dr. Stedman welcomed everyone to this month's meeting of the Graduate Council and gave a brief summary of the pending proposals to be presented to the Council. (Prior to calling the meeting to order, Dr. Stedman informed everyone that today's Zoom meeting was being recorded.)

I. ACTION ITEMS:

1. Minutes from the October 24, 2024, Graduate Council Meeting. A motion to approve was made, seconded, and passed unanimously.

CERTIFICATES:

2. The College of Education seeks to close the graduate certificate in Disaster Mental Health Counseling (#20536). Chris Cook was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.
3. The College of Education seeks to modify the curriculum for the graduate certificate in Early Childhood Studies (#20090). Dr. Tara Mathien was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

CONCENTRATION:

4. The College of Health and Human Performance seeks to change the name of the graduate concentration in Recreation, Parks, and Tourism (RPT) to Tourism, Hospitality, and Event Management (THEM) (#19648). Dr. Svetlana Stepchenkova and Dr. Andrei Kirilenko were present (via Zoom) for discussion. Dr. Stepchenkova stated that they have contacted the active students, and 8 out of the 12 want the new name program name displayed on their records. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of fall 2025.

II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

5. Graduate Curriculum Committee – October Minutes and November Agenda
6. Department Name Change: Pharmacodynamics to Cellular and Systems Pharmacology (#20673)
7. Graduate Programs – Distance or Self-Supporting.
 - MA with a major in Economics with a concentration in Econometrics & Data Analysis
 - PhD with a major in Microbiology and Cell Science
 - MS with a major in Interdisciplinary EcologyChris Newsome was present (via Zoom) to discuss these items that were approved by the BOG in October.
8. Graduate Student Success Center
Dean Stedman shared information regarding Grad Care referrals and distributed a handout that faculty can share.

III. DISCUSSION ITEM:

9. Drug Discovery concentration (formerly introduced as Proposal #20593). Consultations between the College of Medicine and College of Pharmacy are ongoing. The proposal was pulled from consideration at this meeting due to an issue with credit hours – the number of credit hours specific to the proposed concentration (30) is too high to be considered a focused concentration within the existing major/degree, per BOG Regulation 8.011.

The meeting adjourned at 1:36 p.m.

Certificate | New for request 19428

Info

Request: Graduate certificate in AI and Data Science in Healthcare

Description of request: The College of Medicine seeks to create a graduate certificate in AI and Data Science in Healthcare.

Submitter: Matthew Mitterko mmitterko@aa.ufl.edu

Created: 12/10/2024 4:30:15 PM

Form version: 3

Responses

Certificate Name

Enter the name of the certificate. Example: Urban Pest Management.

AI and Data Science in Healthcare

Transcript Title

Enter the transcript title of the certificate. This is limited to 50 characters, including spaces.

AI and Data Sci in Healthcare

Credits

Enter the total number of credit hours needed to complete the certificate program.

12

Level

Enter the program level of the certificate.

Graduate

CIP Code

Enter the six digit Classification of Instructional Programs (CIP) code for the degree program associated with the proposed certificate. The code has the numerical format XX.XXXX. Contact the Office of Institutional Planning and Research (OIPR) to verify the CIP code for the existing degree program.

51.2706

Degree Program

Enter the degree program associated with the CIP code entered above (e.g. Accounting).

Medical Informatics

Effective Term

Enter the term (semester and year) that the certificate would start. Please keep in mind that this may be adjusted depending on University deadlines for approval process.

Earliest Available

Effective Year

Earliest Available

Certificate Description

Enter a description of the certificate. This is limited to 50 words or fewer.

This graduate certificate prepares students with the foundational knowledge in biomedical informatics and the skills to apply machine learning and artificial intelligence techniques in healthcare. This certificate will provide practical learning opportunities for students to gain knowledge and skills necessary to process, model, and analyze various types of healthcare data.

Requirements for Admission

List any requirements for admission to this new certificate program such as grade point average, background in the discipline, current enrollment status, etc.. Please indicate if the certificate only accepts students of a particular status: for example, current UF graduate students, graduate students in a specific college, non-degree seeking students, or any student status.

US Bachelor's degree or equivalent; 3.0 GPA in last 60 hours of undergraduate coursework. We plan to admit students from a wide variety of academic fields connected to biomedical research.

Requirements for Completion

List all of requirements for completion of the certificate program, such as courses, internships, projects, etc. For each course, indicate prefix, number, title, # credits, and established grading scheme (letter grade or S/U). The title should be identical to the official title of the course as listed in the Undergraduate catalog or Graduate catalog.

The certificate will have 4 required courses:

GMS 6859 - new course being proposed, in foundations of programming in biomedical studies - 3 credits, letter-graded

GMS 6803 - Data Science for Clinical Research, 3 credits, letter-graded

GMS 6850 - Foundations of Biomedical Informatics, 3 credits, letter-graded

GMS 6856 - Introduction to Biomedical Natural Language Processing, 3 credits, letter-graded

For a total of 12 credits for the certificate.

Rationale and Place in Curriculum

Describe the rationale for offering this new certificate and having it on the transcript, its place in the curriculum, how it will enhance the quality of the existing program or department. Also

describe its overlap with any existing certificates and programs, and a justification for any such overlap. Note that documentation of consultation will be expected for any certificate with overlapping content.

In the last decade, the rapid digitization of the healthcare industry has resulted in an explosion of patient data, and Artificial Intelligence (AI) has leveraged the data to drive technological innovations in transforming healthcare with remarkable success in medical diagnostics, risk predictions, and precision medicine. There is a critical need for training the next generation workforce to gain knowledge and develop skills in applying data science and AI techniques in solving healthcare problems.

Over the past couple of years, we have seen an increasing interest among UF students in the data science and AI courses from our biomedical informatics program. Our certificate will provide an asynchronous, online experience for those who are looking for career advancement. The audience would be healthcare professionals who want to be prepared for more healthcare data-driven work and informatics professionals who are interested in career opportunities in the healthcare systems and industry. A certificate in “AI and Data Science in Healthcare” from the University of Florida will be popular and well-respected around the world and can lead to significant career advancement opportunities for the certificate holders.

There is some overlap with our existing Biomedical Informatics certificate. However, this certificate is more targeted to students outside of the Gainesville area who may benefit from applying data science and techniques within their own local contexts.

Student Learning Outcomes

List each student learning outcome with its associated courses, assessment type (e.g. course-related exam/assignment/grade, final paper/project/presentation, standardized exam, capstone) and method (e.g. rubric, faculty committee, single faculty member).

SLO 1 Knowledge: Identifies, describes, and explains key concepts, study designs, and research methodologies necessary to conduct research in biomedical informatics
Assessments: Oral project presentation and written project report from GMS 6850, conducted by single faculty member

SLO 2 Skills: Build and apply machine learning and AI models with EHR data; apply natural language processing (NLP) tools for biomedical text
Assessments: Programming assignments in GMS 6803 and 6856 conducted by individual faculty members

Certificate | New for request 17938

Info

Request: New Graduate Certificate in Advanced Transportation Technologies

Description of request: The Herbert Wertheim College of Engineering seeks to create a graduate certificate in Advanced Transportation Technologies

Submitter: Sivaramakrishnan Srinivasan siva@ce.ufl.edu

Created: 12/11/2024 9:01:47 AM

Form version: 6

Responses

Certificate Name

Enter the name of the certificate. Example: Urban Pest Management.

Advanced Transportation Technologies

Transcript Title

Enter the transcript title of the certificate. This is limited to 50 characters, including spaces.

Advanced Transportation Technologies

Credits

Enter the total number of credit hours needed to complete the certificate program.

9

Level

Enter the program level of the certificate.

Graduate

CIP Code

Enter the six digit Classification of Instructional Programs (CIP) code for the degree program associated with the proposed certificate. The code has the numerical format XX.XXXX. Contact the Office of Institutional Planning and Research (OIPR) to verify the CIP code for the existing degree program.

14.0801

Degree Program

Enter the degree program associated with the CIP code entered above (e.g. Accounting).

Civil Engineering

Effective Term

Enter the term (semester and year) that the certificate would start. Please keep in mind that this may be adjusted depending on University deadlines for approval process.

Earliest Available

Effective Year

Earliest Available

Certificate Description

Enter a description of the certificate. This is limited to 50 words or fewer.

The Advanced Transportation Technologies graduate certificate provides comprehensive training and education on the transformative changes taking place in transportation systems. Courses cover smart transportation systems including connected and automated vehicles, electric vehicles, shared mobility, and micro mobility. The certificate prepares students to operate future transportation systems safely and effectively.

Requirements for Admission

List any requirements for admission to this new certificate program such as grade point average, background in the discipline, current enrollment status, etc.. Please indicate if the certificate only accepts students of a particular status: for example, current UF graduate students, graduate students in a specific college, non-degree seeking students, or any student status.

This is a graduate-level program. Students enrolling in this program are expected to be successful if they have a working knowledge of transportation systems evidenced by past degrees or employment in the transportation profession. Students should have the ability to apply quantitative skills to the analysis of various types of transportation data.

Admission requires a bachelor's degree (upper division GPA of 3.0 or higher) in engineering or a similarly appropriate degree program (such as planning) from a regionally accredited institution. The program is open non-degree-seeking students as well. Credits earned in the certificate may be eligible for subsequent transfer of credit to a UF master degree program. (subject to the approval of the supervisory committee and Graduate Council policies governing transfer credit)

Requirements for Completion

List all of requirements for completion of the certificate program, such as courses, internships, projects, etc. For each course, indicate prefix, number, title, # credits, and established grading scheme (letter grade or S/U). The title should be identical to the official title of the course as listed in the [Undergraduate](https://catalog.ufl.edu/UGRD/courses/) catalog or [Graduate](http://gradcatalog.ufl.edu/) catalog.

Nine total credits required:

TTE 6275 Connected and Automated Vehicles: 3 credits; letter-graded
TTE 6615 Electric, Shared, and Micro Mobility: 3 credits; letter-graded
TTE 6605 Smart Multimodal Transportation Systems: 3 credits; letter-graded

Students must complete the above courses with a grade of B or better to earn the graduate certificate.

Rationale and Place in Curriculum

Describe the rationale for offering this new certificate and having it on the transcript, its place in the curriculum, how it will enhance the quality of the existing program or department. Also describe its overlap with any existing certificates and programs, and a justification for any such overlap. Note that documentation of consultation will be expected for any certificate with overlapping content.

The field of transportation engineering is undergoing transformative changes driven by connected and automated vehicles, electrification, shared mobility and micro mobility. These changes are requiring those in the transportation profession to develop new skills. At the same time, these technological changes are also bringing professionals in several related fields into transportation engineering. Currently, the emerging technologies are not adequately covered in existing curriculum in a format that benefits students from a variety of transportation-related backgrounds. The objective of this certificate is to provide training, knowledge, and skills to help future transportation professionals operate multi modal smart transportation systems safety and efficiently. We expect this certificate to be of great interest to the profession as it will provide uniquely trained students for the job market.

Student Learning Outcomes

List each student learning outcome with its associated courses, assessment type (e.g. course-related exam/assignment/grade, final paper/project/presentation, standardized exam, capstone) and method (e.g. rubric, faculty committee, single faculty member).

SLO #1 -- Communications: Ability to critically review (qualitatively) emerging literature and data on transportation technologies and synthesize findings in writing. Evaluated based on independent essays from the three core courses. Expect 75% of students to secure 75% or higher grade in the essays to meet the outcome.

SLO #2 -- Quantitative Skills: Ability to analyze (quantitatively) the impact of transformative changes on transportation using new data and analysis methods and identify solutions working in groups. Evaluated based on group projects from the three core courses. Expect 75% of students to secure 75% or higher grade in the group projects to meet the outcome.

Concentration | Close for request 20677

Info

Request: Cease participation in the Hydrologic Sciences concentration by the Construction Management graduate degree programs

Description of request: The College of Design, Construction and Planning seeks to cease participation in the Hydrologic Sciences concentration for the Master of Construction Management (M.C.M.), Master of Science in Construction Management (M.S.C.M.), and Doctor of Philosophy in Design, Construction and Planning with a concentration in Construction Management (Ph.D.).

Submitter: Joseph Carroll josephcarroll@ufl.edu

Created: 12/10/2024 1:10:12 PM

Form version: 2

Responses

Proposed Action

Indicate whether the proposed action is to fully close (terminate) a concentration or to cease participation in a concentration.

Cease Participation in a Concentration

- *Select to close the concentration if the requesting academic unit is the sole participant in the concentration or if all participating academic units in an inter-disciplinary concentration want to close the concentration. In this latter case, documentation of consent from all participating academic units must be included in the request.*
- *Select to cease participation in a concentration if the requesting academic unit is part of an inter-disciplinary concentration with other academic units and wishes to remove only its portion of the concentration, or if you the requesting academic unit expects the concentration to continue being offered in another degree program.*

Degree Level

Indicate the degree level from which to remove the concentration.

M - Master's Degree

Concentration

Enter the name of the concentration to be closed.

Hydrologic Sciences

Termination Date

Enter the termination date (semester/year), which is the last date students will be accepted into the program.

Spring 2025

Phase-Out Date

Enter the phase-out date (semester/year), which is when the last student in teach-out will have completed the major. This date should allow time for enrolled students to complete the major in a reasonable amount of time. The phase-out date is the last date that data will be submitted for the major.

Fall 2025

Department/Degree/Majors Closing the Concentration

List the department / degree / major combinations at the degree level chosen at which to close this concentration.

M.E. Rinker Sr., School of Construction Management / Master of Science in Construction Management / Construction Management
M.E. Rinker Sr., School of Construction Management / Master of Construction Management / Construction Management
Design, Construction and Planning / Doctor of Philosophy in Design, Construction and Planning / Construction Management

For example, to request closure of the "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all departments participating in the concentration:

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

Rationale for Closure

Describe the rationale for the request to close the concentration.

The Hydrologic Sciences concentration does not serve Construction Management master's degree students. The Rinker School's students are not typically academically qualified to take the courses required for the Hydrologic Science concentration, and the concentration requires more courses external to the Rinker School than the School's internal policy allows. No Rinker School student has ever participated in the Hydrologic Sciences concentration, and the Rinker School does not estimate that any future students will attempt the concentration.

Impact on Other Programs

Describe the potential impact that closing the concentration may have on other programs.

No Rinker School student has ever participated in the Hydrologic Sciences concentration, and no Rinker School courses are part of the same, so no impact to other academic units is anticipated.

Steps Taken to Inform Students and Faculty

State what steps have been taken to inform students and faculty of the intent to close the concentration.

No Rinker School student has ever participated in the Hydrologic Sciences concentration, and the Rinker School faculty were informed at the September 25, 2024 faculty meeting. There was 100% approval of removing the concentration, from the vote taken regarding the removal of the Hydrologic Sciences concentration from the master's programs in Construction Management.

Teach-Out Plan

Explain how students in the major will be able to complete their degree. The teach-out process often extends well beyond the termination date.

No Rinker School student has ever participated in the Hydrologic Sciences concentration, so there are no students who need to finish the concentration.

Accommodation of Faculty

Provide an explanation of the manner in which the Department and College intend to accommodate faculty who are currently active in the concentration.

No Rinker School student has ever participated in the Hydrologic Sciences concentration, and no Rinker School courses were ever part of the same, so no faculty accommodation is necessary.

Major | New for request 20566

Info

Request: New major: Master of Science (M.S.) with a major in Finance & Technology

Description of request: The Warrington College of Business seeks to create a major in Finance and Technology for the Master of Science (M.S.)

Submitter: Kathryn Pearce kathryn.pearce@warrington.ufl.edu

Created: 9/23/2024 3:59:03 PM

Form version: 3

Responses

Program Level

Indicate the level of the approved, existing degree program. This must be one of the following: B-Bachelor's Degree; M-Master's Degree; D-Doctorate Degree; S-Specialist Degree; E-Engineer Degree; P-Professional Doctorate.

M - Master's Degree

CIP Code

Enter the six digit Classification of Instructional Programs (CIP) code for the existing degree program and major. The code has the numerical format XX.XXXX. Contact the Office of Institutional Planning and Research (OIPR) to verify the CIP code for the existing degree program and major.

52.0801

Program or Department Name

Enter the name of the existing degree program.

Finance, Insurance and Real Estate (17060000)

Major Code, Degree & Name for Existing Majors

Enter the combination of major code, degree and major name for each existing major in the program (e.g., HY, Bachelor of Arts in History; TEL, Bachelor of Science in Telecommunication.)

52.0801 code, Master of Science (M.S.) with a major in Finance

Major Code

Enter the existing major code from the preceding item to be linked to the new major.

52.0801

Requested New Major Name

Enter the name of the proposed new major (e.g., Mathematical Modeling).

Master of Science (M.S.) with a major in Finance & Technology

Degree of Requested Major

Enter the degree of the new major (e.g., BA, BS, MA, MFA, MD, PhD).

MS

Credits

Enter the number of credits in the new major.

30

Tracks/Concentrations

If the proposed major would have tracks (for undergraduate programs) or concentrations (for graduate programs), list them here. Note that these must also be explained in the rationale (below) and be included in the proposed catalog copy.

None

Delivery Method

Check all that apply

On Campus

Students

Enter the expected number of new students enrolled in this major in the first three years.

25-35 per year

Effective Term

Enter the term (semester and year) that students would first be admitted.

Earliest Available

Effective Year

Earliest Available

Percentage of Credits Available Fully Online

Indicate the percentage of course credits that will be available through full online courses.

<50%

Percentage of Credits Available Off-Campus

Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).

<25%

Rationale for the Proposed Major

Describe the curriculum and rationale for the new major, what distinguishes it from the existing major(s) in the degree program, the extent of its overlap with the existing major(s) in the degree program and in other programs at the university, and a justification for any such overlap.

The purpose of this major is to focus students on technological changes that are impacting Finance and provide them with the tools required in Blockchain and various forms of Machine Learning. The existing Finance major emphasizes investment banking and consulting. It does not require a deeper immersion in "financial technologies." The overlap in coursework would likely be about 40% to 50%. Students would still get a grounding in Finance but with a required emphasis on Technology in Finance. AI-oriented courses related to Finance are also available in Industrial Systems Engineering, but they are not bundled with a thorough understanding of financial markets and financial intermediation. Those courses, in many cases, may be pitched at different levels with different emphasis than in a Business School.

Impacts on Other Programs

Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.

The new major will have little impact on the existing Master of Science (M.S.) degree with a major in Finance. The new major, while providing a grounding in Finance, emphasizes the use of technology in finance. With an influx of new students, it will also provide the scale necessary to allow the existing master's students to take one or two of the courses required in the new major as an elective. The existing Master of Science with a major in Finance is also a combined degree program that must be applied for early (beginning of Sophomore year) and is very competitive with many applicants unable to get in. Adding this new major will complement the existing major with the technology emphasis and accommodate additional students with a latter application timeline. It will attract a different clientele of students. While the initial emphasis will be on a combined degree program with a finance undergraduate with entry to the program at the start of a student's senior year, we hope to attract additional students of other backgrounds to a non- combined degree with the same graduation requirements. The admissions cycle would be timed such that each group would take the same technology courses at the same time.

Overview and Program Information

Master of Science degree with a major in Finance & Technology, non-thesis option: The M.S. with a major in Finance and Technology consists of a minimum of 30 credit hours. It is designed to ensure that students have exposure related to investments, derivatives, valuation, and current trends in financial intermediation and financial services, while also giving students an extensive grounding in the technologies being employed in finance today related to AI and blockchain. The program will primarily be a combination bachelor's/master's program beginning when students enter their senior year, with the possibility of entering the program on a stand-alone basis with the same set of master's level requirements.

Degrees Offered

Degrees Offered with a Major in Finance and Technology

- Master of Science

Courses Offered

All courses listed here: <https://gradcatalog.ufl.edu/graduate/colleges-departments/business/finance-insurance-real-estate/finance/#coursestext>

Plus:

FIN 6XXX: Introduction to Blockchain and Cryptocurrencies (Approval #20126)

Students are introduced to the fundamental building blocks of blockchain technology and its applications in cryptocurrencies, stablecoins, decentralized finance (DeFi), and non-fungible tokens (NFTs).

FIN 6XXX: Financial Intermediation, Financial Services and Technology (Approval #20100)

An in-depth exploration of the theory and practice of financial intermediation is provided. An emphasis is on a comprehensive understanding of the role of financial intermediaries, their function in various financial markets, the services they provide, and the regulatory framework that governs these institutions. Special attention is given to how technology has revolutionized the landscape of financial intermediation, giving rise to innovative products and services.

FIN 6XXX: Decentralized Finance Project (Approval #20135)

Students work on a project in which student groups will formulate and present business proposals to be deployed on blockchain. To prepare students for constructing their proposals, course lectures will focus upon hurdles for blockchain businesses and solutions employed in practice to overcome those hurdles.

FIN6XXX: Natural Language Processing and Generative AI for Finance (Approval #20236)

Students are introduced to the fundamental principles and the application of natural language processing (NLP) and generative artificial intelligence (AI) techniques in the field of finance.

The course will delve into the theoretical foundations of NLP and generative models and discuss their practical implementation in finance-related tasks such as sentiment analysis, automated trading, risk assessment, fraud detection, and financial forecasting.

FIN 6XXX: Financial Modeling for Investments (Approval #20237)

Utilizes excel, Python and some basic R programming for important value creating financial activities such as securities modeling, portfolio optimization, value at risk analysis, and gathering/processing financial data. Hands on applications are emphasized.

FIN 6XXX: Behavioral Finance (Approval #20098)

Explores how psychological biases lead to poor financial decision making and how security market prices can be influenced by psychological bias. Also gives insights of how behavioral finance complements the traditional financial theory paradigms and sheds light on the behavior of asset prices, corporate finance, and investor behavior.

Student Learning Outcomes

Finance (MS)

SLO 1 Knowledge

Produce a valuation of a financial claim and understanding of blockchain technologies and machine learning in finance.

SLO 2: Skills

Synthesize financial and economic data, apply the appropriate framework, and recommend a financial strategy.

SLO 3: Skills

Ability to process financial and economic data for finance applications using machine learning and generative AI.

SLO4: Skills

Ability to strategize and analyze “fintech” products using blockchain technology.

Master of Science (M.S.) with a major in Finance and Technology Combination Degree Program for Finance Undergraduate Majors

Minimum 30 credits. Application required, minimum requirements:

- Earned minimum 90 credits upon entry
- B or better in FIN 3403
- B or better in QMB 3250
- B or better in QMB 3302

(All courses are Letter Graded)

Fall of first year in program (4 credits):

FIN 6427 Measuring and Managing Value (2 credits) (mod 1) *

FIN 6465 Financial Statement Analysis (2 credits) (mod 2) *

Spring of first year in program (4 credits):

FIN6XXX (Approval #20237) Financial Modelling for Investments (2 credits) (mod 3) **

FIN6528 Financial Asset Allocation and Strategy (2 credits) (mod 4) **

* Replaces ACG 4111 for undergraduate degree (4 credits)

** Replaces FIN 4504 for undergraduate degree (4 credits)

Post undergrad:

Fall (10-12 credits):

FIN 6537 Derivative Securities (2 credits) (mod 1)

FIN 6XXX (Approval #20100) Financial Intermediation, Financial Services and Technology (2 credits) (mod 1)

FIN 6XXX (Approval #20126) Introduction to Blockchain and Cryptocurrency (2 credits) (mod 2)

FIN 6779 Artificial Intelligence & Machine Learning Applications for Finance & FINTECH (2 credits) (mod 2)

1-2 graduate finance electives

Spring (10-12 credits):

FIN 6XXX (Approval #20236) Natural Language Processing and Regenerative AI in Finance (2 credits) (mod 3)

FIN 6XXX (Approval #20135) Decentralized Finance Project (2 credits) (mod 3)

FIN 6930 Special Topics in Finance (1-4 credits) (mod 4)

2-3 graduate finance electives

Master of Science (M.S.) with a major in Finance and Technology

Application requirements: Business undergraduate degree required and others on a case-by-case basis. Minimum 30 credits.

(All courses are Letter Graded)

Fall (14-16 credits):

FIN 6537 Derivative Securities (2 credits) (mod 1)

FIN 6XXX (Approval #20100) Financial Intermediation, Financial Services and Technology (mod 1)

FIN 6427 Measuring and Managing Value (2 credits) (mod 1)

FIN 6XXX (Approval #20126) Introduction to Blockchain and Cryptocurrency (2 credits) (mod 2)

FIN 6779 Artificial Intelligence & Machine Learning Applications for Finance & FINTECH (2 credits) (mod 2)

FIN 6465 Financial Statement Analysis (2 credits) (mod 2)

1-2 graduate finance electives

Spring (14-16 credits):

FIN 6XXX (Approval #20236) Natural Language Processing and Regenerative AI in Finance (2 credits) (mod 3)

FIN 6XXX (Approval #20135) Decentralized Finance Project (2 credits) (mod 3)

FIN 6XXX (Approval #20237) Financial Modelling for Investments (2 credits) (mod 3)

FIN 6930 Special Topics in Finance (1-4 credits) (mod 4)

FIN 6528 Asset Allocation and Investment Strategy (2 credits) (mod 4)

2-3 graduate finance electives

Major | Modify_Curriculum for request 20085

Info

Request: Add PILOT option to the MID degree program

Description of request: The College of Design, Construction and Planning seeks to add a Project in lieu of Thesis (PILOT) option for the Master of Interior Design (M.I.D.) with a major in Interior Design

Submitter: Sheila Bosch sheilabosch@dcp.ufl.edu

Created: 12/2/2024 1:48:14 PM

Form version: 4

Responses

Major Name

Enter the name of the major. Example: "Mathematical Modeling"

Interior Design

Major Code

Enter the two-letter or three-letter major code.

IND

Degree Program Name

Enter the name of the degree program in which the major is offered.

Master of Interior Design

Undergraduate Innovation Academy Program

Is this an undergraduate program in the Innovation Academy?

No

Effective Term

Enter the term (semester and year) that the curriculum change would be effective.

Fall

Effective Year

Earliest Available

Current Curriculum for Major

The courses required in the current MID degree with the thesis requirement provide students with the necessary foundation for the program. Graduate credit hours for both will be 33 credits. The names of the degree, major, and concentration remains the same, as do the Student Learning Outcomes (SLOs).

Proposed Curriculum Changes

Describe the proposed changes to the curriculum. If the change is to offer the program through UF Online, please explain and attach a letter of support from the Director of UF Online.

In addition to the thesis option that is already available to students in the MID program, the Department is proposing that students completing the MID have the option to complete a Project in Lieu of Thesis (PILOT). The number of required credits for the thesis and Project in lieu of Thesis options will both be 33 credits. The degree name and the Student Learning Outcomes (SLOs) for the program will remain the same. The only observable update to the curriculum will be the students registering for IND 6973, the Project in Lieu of Thesis course, instead of IND 6971, the course for Master's Research. All of the other courses will remain the same within the students' curriculum, as well as the number of credits for the entire program. IND 6973 is not yet an active course within the College of Design, Construction and Planning.

UF Online curriculum change

Will this curriculum change be applied to a UF online program as well?

No

Pedagogical Rationale/Justification

Describe the rationale for the proposed changes to the curriculum.

Given that most graduates of our MID program go on to work as interior designers within design firms, it is reasonable to allow our students to complete a research-informed design project (PILOT), as an alternative to the traditional research-based thesis. The PILOT option is appropriate for practitioners, as this aligns more with their professional goals. The thesis option is most appropriate for our students who plan to pursue a PhD or a career as a design researcher and we will encourage those students to choose the thesis option.

Impact on Enrollment, Retention, Graduation

Describe any potential impact of the curriculum changes on students who are currently in the major.

It is conceivable that the proposed change may improve our ability to recruit and mentor MID students (current and future) who are more excited about honing their design skills than they are about the intensive writing required to complete a thesis. A PILOT option will provide our students and faculty with an opportunity to better match the students' aptitudes with MID program requirements, potentially boosting our graduation success rate.

Assessment Data Review

Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.

There are no necessitated revisions to the Student Learning Outcomes (SLOs) for the programs. The projects will allow the students to integrate applied research into their graduate education by completing a research-informed design project. Similar to the thesis option, students participating in the PILOT option will follow the direction of their supervisory committees for guidance with their project. They must establish their committee as soon as possible, but no later than the second semester of enrollment for students who already have earned a Bachelor's degree in Interior Design, or by the fourth semester for students who must complete leveling courses. The committee must consist of at least 2 members of the graduate faculty. To satisfy the research component of the degree, the students will be required to conduct a literature review and prepare a proposal before further work on the project can continue. Similar to the thesis oral defense, upon completion, the student will present the results of the project to the supervisory committee and any others who wish to attend the presentation. The student will defend the project with the supervisory committee and submit a final project document that will include a discussion of the design problem addressed, a review of relevant literature, the student's proposed design solutions, and a discussion that includes implications for practice. All committee members must agree and sign off on the final examination form stating that the project has met all requirements for the degree and that the oral examination has been passed. The student will be required to submit the final project to the Department of Interior Design.

Academic Learning Compact and Academic Assessment Plan

Describe the modifications to the Academic Learning Compact (for undergraduate programs) and Academic Assessment Plan that result from the proposed change.

Not applicable

Catalog Copy

Submitter agrees to prepare and upload document showing the catalog copy with the current and proposed curricula edited using the "track changes" feature in Word.

Yes

Proposed Requirements – 33 credits

MID Required Courses: 24 credits
IND 5937 Current Topics in Interior Design (3 credits)
IND 5633 Readings in Design Studies (3 credits)
IND 6639 Methods of Interior Design Research (3 credits)
IND 5641 Environment and Behavior (3 credits)
IND 6940 Supervised Teaching (3 credits)
IND 6906 Independent Studies and Readings (3 credits)
IND 6971 Research for Master's Thesis
OR
IND 6979 Master's Research Project (6 credits)

Additional Courses: 9 credits
IND Elective Courses: up to 9 CR
IND 6906 Independent Studies and Readings (3 credits) (max credits 6)
IND 6941 Internship (3 credits) (S/U)
Suggested Elective Courses
IND 5937 Other Special topics
Statistics: MMC 6455 (3 credits)

MID (No Design Background Track) Semester Plan = 76 credits			
YEAR 1	FALL - S1	SPRING - S2	Summer
	IND 1020 Design Innovations 3 IND2313 - D3 4 IND5466 - Interior Env Tech 3 Graduate Elective or Ind Study 3	IND2214 - Intro to Arch Interiors 4 IND2460C - Computer Apps in 3D Des 3 IND2130 - History of Interiors 2 3 Graduate Elective or Ind Study 3	
	13	13	
YEAR 2	FALL - S3	SPRING - S4	Summer
	IND5212C - Arch Interiors 1 5 IND 5427C Interior Constr Docs 4 IND2422 - Interior Materials 3 IND5633 Readings in Design Studies 3 IND 5937 Current Topics in Interior Design 1	IND5231C - Arc Interiors 2 5 IND5508 - Pro Practice 3 IND5434C - Interior Lighting 3 IND6639 Methods of Interior Design Research 3 IND 5937 Current Topics in Interior Design 2	IND6941 - Internship or Grad Electi 3
	16	16	3
YEAR 3	FALL - S5	SPRING - S6	
	IND 6906 Independent Studies and Reading 3 IND5641 Environment & Behavior 3 IND6940 Supervised Teaching (or elective) 3 Graduate Elective or Ind Study 3	IND6971 Master's Thesis/IND 6979 Research Proj 6	
	9	6	
Optional IND5227C - Advanced Arc Interiors 5		Total 76	Total Grad 33

MID Required Courses: 24 credits
IND 5633 Readings in Design Studies: 3 CR IND 6639 Methods of Interior Design Research: 3 CR IND5641 Environment & Behavior: 3 CR IND 5937 Current Topics in Interior Design: 3 CR IND 6940 - Supervised Teaching: 3 CR IND 6906 Independent Studies and Readings: 3 CR IND 6979 Master's Res Project or IND 6971 Master's Thesis: 6 CR
Additional Courses: 9 credits
Elective Courses: up to 9 CR IND6906 Independent Studies: max credits 6 IND6941 Internship: 3 CR
Suggested Elective Courses
IND6939 Creativity Applied IND 5937 Current Topics in Interior Design

MID (Design Background Track) = 33 credits			
YEAR 1	Fall Semester	Spring Semester	Summer
	IND5633 Readings in Design Studies 3 IND 5937 Current Topics in Interior Design 1 IND5641 Environment & Behavior 3 Graduate Elective or Ind Study 3	IND6639 Methods of Interior Design Research 3 IND 5937 Current Topics in Interior Design 2 Graduate Elective or Ind Study 3	
	10	8	
YEAR 2			
	IND6940 Supervised Teaching (or elective) 3 IND 6906 Independent Studies and Reading 3 Graduate Elective or Ind Study 3	IND6971 Master's Thesis/IND 6979 Research Proj 6	
	9	6	
		Total 33	

MID (4+1 Combined Track) = 33 credits			
Senior Yr	Fall Semester	Spring Semester	Summer
	IND 4225 Adv Arch Interiors I 6 IND 4450C Adv Int Des Detail & Const Docs 4 IND5633 - Readings in Design Studies 3 IND 5937 Current Topics in Interior Design 1	IND 4226 Adv Arch Interiors II 6 IND6639 Methods of Interior Design Research 3 IND 5937 Current Topics in Interior Design 2 Graduate Elective or Ind Study 3 Graduate Elective or Ind Study 3	
	4	11	
YEAR 2			
	IND5641 Environment & Behavior 3 IND6940 Supervised Teaching (or elective) 3 IND 6906 Independent Studies and Reading 3 Graduate Elective or Ind Study 3	IND6971 Master's Thesis/IND 6979 Research Proj 6	
	12	6	
		Total Grad 33	

Major | Modify_Curriculum for request 20122

Info

Request: Master of Science with a major in Family, Youth and Community Sciences

Description of request: The College of Agricultural and Life Sciences seeks to modify the curriculum for the major in Family, Youth and Community Sciences for the Master of Science (M.S.) degree.

Submitter: Kate Fogarty kfogarty@ufl.edu

Created: 12/12/2024 10:48:26 AM

Form version: 4

Responses

Major Name

Enter the name of the major. Example: "Mathematical Modeling"

Family, Youth and Community Sciences

Major Code

Enter the two-letter or three-letter major code.

MS

Degree Program Name

Enter the name of the degree program in which the major is offered.

Master of Science with a major in Family, Youth and Community Sciences

Undergraduate Innovation Academy Program

Is this an undergraduate program in the Innovation Academy?

No

Effective Term

Enter the term (semester and year) that the curriculum change would be effective.

Earliest Available

Effective Year

Earliest Available

Current Curriculum for Major

The MS thesis curriculum has 16 to 19 credit hours of core courses: FYC 6800; FYC 6802; one of 3 theories courses (FYC 6230, FYC 6234, OR FYC 6330), STA 6126, FYC 6933 (Seminar in FYCS), and FYC 6971 (thesis research credit hours of which 3 to 6 are required). There are 11 to 14 credit hours of electives with a minimum of 6 credits of FYC

courses and 5 to 8 graduate-level courses that can be either FYC or from outside the department.

The nonthesis/capstone MS curriculum has 13 credit hours of core courses: FYC 6800, one of 3 theories courses (FYC 6230, FYC 6234, OR FYC 6330); FYC 6220 (Program Planning and Evaluation); FYC 6933 (Seminar in FYCS); and FYC 6920 (Capstone). There are 17 electives with a minimum of 6 FYC course credits with remaining credits that can be outside the department but must be graduate level.

Both options require 30 credit hours and that will not change with the proposed changes.

Proposed Curriculum Changes

Describe the proposed changes to the curriculum. You may list out the specific changes or provide the new semester models where changes are proposed. Please be precise and clear in stating requested changes. If the change is to offer the program through UF Online, please explain and attach a letter of support from the Director of UF Online.

Courses will be listed under three core (required) new subcategories: Research, Conceptual Knowledge, and The Profession (similar to the FYC undergraduate program curriculum change). Every effort is made to maintain students' flexibility in selecting courses of interest by providing lists of approved courses.

Research Core

1. For thesis students, the research core will be expanded to include our new course, FYC 6804 Applied Data Analysis in FYCS (or equivalent data analysis class). This will complement the current requirement STA 6126 Statistical Methods in Social Research I, which many of our students no longer take and which is currently not adequately staffed in the statistics department.
2. In addition, for non-thesis (capstone) students, FYC 6804 Applied Data Analysis in FYCS (or equivalent data analysis class) will become a new elective course. There are several reasons for this recommended addition.
 - a. Provides foundational data analysis skills needed for capstone projects that include data collection and presentation.
 - b. A data analysis core course for students who wish to apply for doctoral programs.
 - c. A proactive step to meet new UF strategic priorities, which includes foundational data analysis skills for all students.
3. To adapt to the current needs of students, the research core for the thesis track will replace the current required course sequence (FYC 6800, 6802) with FYC 6802 Advanced Research Methods for FYCS and a method/analysis elective. This is consistent with our peer institutions. Removing FYC 6800 as a requirement provides an opportunity for thesis students to take an additional method/analysis course, such as qualitative analysis or advanced statistics, either inside or outside the department.

Conceptual Knowledge Core

4. The conceptual knowledge core will continue to include a requirement to take one of our theories courses (youth, family, or community). The conceptual knowledge core will also include a required course that delves more deeply into the foundational theory/science in a content area. Foundational knowledge prepares students to develop a substantive area of specialization as needed for a thesis or capstone project or, if they choose, to pursue a Ph.D. Given the focus of our doctoral program, we recommend requiring the prevention science course for students in the thesis option (FYC 6235 Prevention Science in Youth Development and Family Science). Students in the non-thesis option will select from a list of approved courses.

Professional Core

5. Results from surveys/listening sessions with graduate students in fall 2022 show that students are seeking more courses in the “profession.” Career preparation and assistance for our students is an area we are developing within colloquium that meets six times per semester in fall and spring yet is not a course. However, students need additional courses that provide foundational skills in the profession. The inclusion of a “profession” core will require students to take a minimum number of courses with these foundational skills. We recommend requiring the program planning/evaluation course for students in both thesis and capstone options (FYC 6620 Program Planning and Evaluation for Human Service Delivery) as this is a foundational skill. FYC 6620 is currently required in the capstone MS curriculum and will be required for the MS thesis curriculum. Students will select from a list of several approved FYC courses (FYC 6662, FYC 6221, OR FYC 6131) for the other required course.

6. FYC 6933 Seminar in Human Resource Development is a required 1-credit course that covers topics for success in graduate school. However, the single credit is often difficult for students to integrate into the current 30-credit plan of study. Most courses are 3-credit, which leaves some students seeking an elective independent study course for 2-credits to avoid paying for additional credits. It also incurs out-of-pocket tuition costs for students on assistantship (e.g., tuition waiver only covers 9-credits). It is proposed that the 1-credit requirement be removed. Instead, elements of the course have been developed in module format and integrated into the Canvas hubs (online and on campus). The modules will be required of all new students prior to registration. Other elements of professional development covered in FYC 6933 can be integrated into existing courses, such as informing students on professional organizations and research and conference presentation opportunities related to course content.

In conclusion, a document "MS FYCS Curriculum Change Table" document (as 2 -page pdf) has also been added, with changes highlighted, for supporting documentation for this request.

UF Online Curriculum Change

Will this curriculum change be applied to a UF online program as well?

Yes

Pedagogical Rationale/Justification

Describe the rationale for the proposed changes to the curriculum.

Results from surveys/listening sessions with graduate students in fall 2022 show that students are seeking more courses in the “profession.” Career preparation and assistance for our students is an area we are developing within colloquium that meets six times per semester in fall and spring yet is not a course. However, students need additional courses that provide foundational skills in the profession. The inclusion of a “profession” core will require students to take a minimum number of courses with these foundational skills. They also indicated interest in more emphasis on research methodology and taking courses outside department to cover their areas of interest.

Impact on Enrollment, Retention, Graduation

Describe any potential impact of the curriculum changes on students who are currently in the major.

The course changes will enable students to bypass needing to take a one credit course that has presented out of pocket costs to students on assistantship. There is greater organization in course content. MS thesis students will be advised of the program changes and need to take program planning and evaluation whereas nonthesis students will experience fewer changes as the concentrations were generally incorporated into the 17 credits of electives previously required.

Assessment Data Review

Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.

SLOs were reviewed and there are no changes required.

Academic Learning Compact and Academic Assessment Plan

Describe the modifications to the Academic Learning Compact (for undergraduate programs) and Academic Assessment Plan that result from the proposed change.

This is a graduate program, thus Academic Learning Compact is not affected. Academic Assessment Plan remains the same and reflects the SLO areas for the FYCS MS programs description in the course catalog.

Catalog Copy

Submitter agrees to prepare and upload document showing the catalog copy with the current and proposed curricula edited using the “track changes” feature in Word.

Yes

THESIS: Original Program <i>Changes Highlighted</i>			Revised Program <i>Changes Highlighted</i>		
Course Category	Course Number & Course Title	Hrs	Course Category	Course Number & Course Title	Hrs
<i>Core</i>		16-19 <i>Tot</i>	<i>Research</i>		12 <i>Tot</i>
	STA 6126 Stat. Methods in Social Rsch	3		FYC 6804 Applied Data Analysis in FYCS- OR STA 6126	3
	FYC 6802 Advanced Research Methods	3		FYC 6802 Advanced Research Methods	3
	FYC 6800 Scientific Reasoning & Rsch Design	3		Research Method/ Analysis Course (FYC or other Dept.)	3
	FYC 6971 Thesis Research	3-6		FYC 6971 Thesis Research	3-6
			<i>Conceptual Knowledge</i>		6 <i>Tot</i>
	FYC 6230 (Family), FYC 6234 (Youth), OR FYC 6330 (Commtty) Theories (select 1)	3		FYC 6230 (Family), FYC 6234 (Youth), OR FYC 6330 (Commtty) Theories (select 1)	3
				FYC 6235 Prevention Sci. in YDFS	3
			<i>The Profession</i>		6 <i>Tot</i>
				FYC 6620 Prog. Plan. & Eval.	3
	FYC 6933 Seminar in FYCS	1		FYC 6662 (Policy), FYC 6221 (Grants), OR FYC 6131 (Ethics)	3
<i>Electives</i>		11-14 <i>Tot</i>	<i>Electives</i>		6 <i>Tot</i>
	FYC Courses (2 total)	6	FYC or other (2) graduate courses		6
	FYC or other graduate courses	5-8			
Total Minimum Credits		30			30

Courses no longer required *New required courses*

NONTHESES/CAPSTONE: Original Program <i>Changes Highlighted</i>			Revised MS Capstone Program <i>Changes Highlighted</i>		
Course Category	Course Number & Course Title	Hrs	Course Category	Course Number & Course Title	Hrs
<i>Core</i>		10 <i>Tot</i>	<i>Research</i>		3 <i>Tot</i>
	FYC 6800 Scientific Reasoning & Rsch Design	3		FYC 6802 Advanced Research Methods	3
			<i>Conceptual Knowledge</i>		6 <i>Tot</i>
	FYC 6230 (Family), FYC 6234 (Youth), OR FYC 6330 (Commty) Theories (select 1)	3	FYCS Theories	FYC 6230 (Family), FYC 6234 (Youth), OR FYC 6330 (Com.) Theories (select 1)	3
			FYCS Foundations	FYC 6235 (Prevention Sci. in YDFS), FYC 6105 (Youth & Fam Relationships), FYC 6223 (Prom. PYD), OR FYC 6320 (Comm Dev. & Civic Engage)	3
			<i>The Profession</i>		6 <i>Tot</i>
	FYC 6620 Prog. Plan. & Eval.	3		FYC 6620 Prog. Plan. & Eval.	3
	FYC 6933 Seminar in FYCS	1		FYC 6662 (Policy), FYC 6221 (Grants), OR FYC 6131 (Ethics)	3
<i>Electives</i>		17 <i>Tot</i>	<i>Electives</i>		Var.* (3-6)
	Minimum 6 credits FYC Courses	6		As needed	
	FYC or other grad. level courses	11			
			<i>Concentration</i>		6-12 <i>Tot</i>
				Nonprofit Org. Dev. (15 credits, 3 included above) OR Family & Youth Dev. (15 credits, 6-9 inc.)	
<i>Capstone</i>	FYC 6920 (Capstone – Penultimate or Final Semester)	3 <i>Tot</i>	<i>Capstone</i>	FYC 6920 (Capstone – Penultimate or Final Semester)	3 <i>Tot</i>
Total Min. Credits		30			30

Removed Courses Added Courses * Family & Youth Dev. Concentration Requires Electives

**Board of Governors, State University System of Florida
REQUEST TO OFFER A NEW DEGREE PROGRAM**

In Accordance with BOG Regulation 8.011

(Please do not revise this proposal format without prior approval from Board staff)

University of Florida
Institution Submitting Proposal

Fall 2025
Proposed Implementation Term

College of Medicine
Name of College(s) or School(s)

Pathology
Name of Department(s)/Division(s)

Health Professions Education
Academic Specialty or Field

Master of Healthcare Education (MHE) with a major in Artificial Intelligence
Complete Name of Degree

51.3202
Proposed CIP Code (2020 CIP)

The submission of this proposal constitutes a commitment by the university that, if the proposal is approved, the necessary financial resources and the criteria for establishing new programs have been met prior to the initiation of the program.

Date Approved by the University Board of Trustees

President's Signature **Date**

Board of Trustees Chair's Signature **Date**

Provost's Signature **Date**

PROJECTED ENROLLMENTS AND PROGRAM COSTS

Provide headcount (HC) and full-time equivalent (FTE) student estimates for Years 1 through 5. HC and FTE estimates should be identical to those in Appendix A – Table 1. Indicate the program costs for the first and the fifth years of implementation as shown in the appropriate columns in Appendix A – Table 3A or 3B. Calculate an Educational and General (E&G) cost per FTE for Years 1 and 5 by dividing total E&G by FTE.

Implementation Timeframe	HC	FTE	E&G Cost per FTE	E&G Funds	Contract & Grants Funds	Auxiliary/Philanthropy Funds	Total Cost
Year 1	20	480	\$0	\$0	\$136,040	\$0	\$136,040
Year 2	30	720					
Year 3	40	960					
Year 4	55	1320					
Year 5	60	1440	\$0	\$0	\$504,259	\$0	\$504,259

Additional Required Signatures

I confirm that I have reviewed and approved Need and Demand Section III.F. of this proposal.

Signature of Equal Opportunity Officer

Date

I confirm that I have reviewed and approved Non-Faculty Resources Section VIII.A. and VIII.B. of this proposal.

Signature of Library Dean/Director

Date

Introduction

I. Program Description and Relationship to System-Level Goals

A. Describe within a few paragraphs the proposed program under consideration, and its overall purpose, including:

- **degree level(s)**
- **majors, concentrations, tracks, specializations, or areas of emphasis**
- **total number of credit hours**
- **possible career outcomes for each major (provide additional details on meeting workforce need in Section III)**

This program seeks to train the next generation of leaders in healthcare education with the knowledge and skills to advance novel education delivery models. Participants in the program will engage in educational scholarship, incorporate contemporary learning theory into practice, apply artificial intelligence strategies and lead efforts to revolutionize the delivery of healthcare education across the learning continuum. Graduates of the program will help fulfill the need for qualified teaching faculty, trainers, assessment and evaluation specialists, and leaders in the medical and allied health professions at all levels of professional preparation.

Upon graduation, they will be prepared to lead, educate, design innovative curricula, incorporate novel learning technology, make assessments, and evaluate allied health and medical professionals; public health practitioners; community health educators; school health science educators and administrators.

Goal I: Graduates must demonstrate the skills in advancing novel education delivery models.

Learning Objectives for this domain: Graduates will be able to:

- Apply evidence-based educational strategies and methodologies to teach in a range of settings
- Adapt instruction based upon learner assessment
- Incorporate interprofessional and interdisciplinary teaching methods in curricular design
- Apply standards and standards-based instructional approaches to teaching
- Understand collaborative and clinical teaching models
- Recognize multiple approaches to assessing student learning outcomes
- Integrate technology into instruction
- Explain the importance of adult learning principles, theory and development
- Apply reflective practice to their own instruction
- Demonstrate the ability to design, implement and evaluate curricula in traditional and technology-enhanced learning environments
- Describe effective methods for providing learner feedback

Goal II: Graduates must be educational scholars who incorporate contemporary learning theory into practice. Learning objectives for this domain: Graduates will be able to:

- Explain the importance of educational theory and its translation into practice
- Connect educational theory to practice in clinical learning environments
- Utilize educational theory to describe the learning process
- Develop relevant research question(s) related to healthcare education
- Interpret contemporary educational research and make informed decisions

regarding teaching and learning

- Design and implement an educational research study
- Analyze educational data using appropriate quantitative methods
- Disseminate research findings at local, regional, national or international conferences
- Disseminate research findings in peer-reviewed publications or venues

Goal III: Graduates must be artificial intelligence professionals. Graduates will be able to:

- Demonstrate an understanding of artificial intelligence and how it differs from traditional data analysis approaches
- Describe the characteristics of different artificial intelligence techniques
- Use suitable artificial intelligence techniques to engage different types of educational data
- Interpret educational data to enhance teaching and learning
- Formulate research questions that can be addressed by applying artificial intelligence
- Write a research proposal that addresses research questions pertaining to artificial intelligence and healthcare education
- Apply ethical standards of practices

Goal IV: Graduates must be developers of technology-enhanced learning innovations. Learning objectives for this domain: Graduates will be able to:

- Describe the role of educational theory in the development and implementation of new technologies
- Develop a plan regarding technology adoption using theories of change
- Incorporate universal design strategies for learning standards (UDL) in the conceptualization of learning technologies

Goal V: Graduates must be leaders in their disciplines. Learning objectives for this domain:

Graduates will be able to:

- Demonstrate problem solving skills
- Coach others on reflective practice
- Facilitate the design and implementation of learning plans for others
- Mentor less experienced professionals
- Lead educational experiences across the learning continuum
- Impact change within their organizations
- Engage with other thought-leaders through participation in professional academic organizations
- Demonstrate a commitment to interprofessional education
- Recognize and appreciate the contributions of various health care professionals
- Serve as role models for personal and professional well-being
- Mentor others on the recognition of bias and mitigation of barriers to effective learning
- Consistently engage in feedback conversations across differences and in challenging situations that initiates behavior change

The proposed degree program is a non-thesis Master of Healthcare Education in AI.

The major will be Healthcare Education. It consists of a set of:

1. Four education core courses (12 credit hours)
2. Two artificial intelligence core courses (6 credit hours).
3. Elective courses (9 credit hours) in education
4. A practicum/capstone course in analytics and artificial intelligence (3 credit hours).

The practicum/capstone will focus on the application of artificial intelligence to educational problems relevant to healthcare education. The core courses are taken in the beginning, followed by sets of related specialization courses. Electives are associated with educational technology coursework in the College of Education, these electives provide more depth to introductory topics.

The total number of credit hours will be 30.

There are no Master of Healthcare Education programs at public universities in the state of Florida. Nova Southeastern currently offers a Master of Science in Medical Education.

Nationwide, to the best of our knowledge, there is not currently a master's degree program that combines subject matter in healthcare education with training in artificial intelligence. There are several content independent master's degree and certificate programs in learning analytics (artificial intelligence applied in the context of education) (e.g., North Carolina State University). According to the Association of American Medical Colleges, healthcare faculty shortages are a serious concern that will impact the nation's ability to train a workforce that can address the needs of a growing and aging population. The health professions increasingly recognize the need to embrace competency-based, time-variable education across the workforce continuum to address the needs of an aging population and workforce. The need for healthcare educators with clinical and non-clinical expertise is recognized by leading organizations including the World Health Organization, and the National Academies of Sciences, Engineering and Medicine.

B. If the proposed program qualifies as a Program of Strategic Emphasis, as described in the Florida Board of Governors 2025 System Strategic Plan, please indicate the category.

- **Critical Workforce**
 - Education
 - Health
 - Gap Analysis
- **Economic Development**
 - Global Competitiveness
 - Science, Technology, Engineering, and Math (STEM)
- Does not qualify as a Program of Strategic Emphasis.**

II. Strategic Plan Alignment, Projected Benefits, and Institutional Mission and Strength

A. Describe how the proposed program directly or indirectly supports the following:

- **System strategic planning goals (see link to the 2025 System Strategic Plan on the [New Program Proposals & Resources](#) webpage)**
- **the institution's mission**
- **the institution's strategic plan**

Healthcare education (HCE) is a nascent field of increasing importance as healthcare training programs grapple with the cost and time associated with training, the increasing demand for licensed healthcare professionals and the ever present need to provide the public with safe, timely, effective and cost-efficient healthcare. It is a field which reaches and implements new approaches to educating healthcare professionals across the learning continuum (from pre-licensure to licensed practitioners). Traditional HCE programs equip graduates with the skills to be educational generalists. This program will equip graduates with a focus on the data-related processes that will drive increased efficiency and efficacy for tomorrow's professionals, while providing a strong grounding in the context of healthcare education.

The Florida Department of Economic Opportunity's workforce projections indicate a critical shortage related to healthcare professionals, resulting in healthcare's designation as a critical workforce by the BOG. This program supports the BOG Program of Strategic Emphasis - Healthcare. The BOG's Program of Strategic Emphasis methodology recognizes the high-demand and high-wage occupations associated with health-related technology and management programs, while also recognizing the need for the state to expand its healthcare workforce in all related occupations. By improving the way healthcare professionals are educated, through expertise gained by the graduates and their research, healthcare professionals educated in the State of Florida will be better prepared to contribute to the state's economy.

Many AAU institutions with premiere academic health centers (Harvard University, Johns Hopkins, University of Michigan, University of Southern California) offer MHE programs that focus on general education. UF will distinguish itself in the type of education it provides to students by focusing on artificial intelligence within education. The UF program will be action-oriented requiring students to use data to address educational needs either at their institution or using de-identified and IRB approved UF datasets. An action focus will better prepare the graduates to address health profession education needs within the state. The curriculum will consist of courses in educational research methods, curriculum design, student learning, as well as courses that provide a strong foundation in data analytics and artificial intelligence. These courses provide the graduates with the skills to contribute to UF's and the SUS's goals for the creation of new knowledge. There are collaborative opportunities with all the health professions, engineering and education programs at universities in the SUS. Collaboration could occur through identifying educational needs in healthcare education throughout the SUS and conducting applied research to support those needs.

B. Describe how the proposed program specifically relates to existing institutional strengths. This can include:

- **existing related academic programs**
- **existing programs of strategic emphasis**

- **institutes and centers**
- **other strengths of the institution**

The University of Florida is nationally recognized as one of the top programs in the Health Sciences, training future physicians, physician assistants, nurses, doctors of Veterinary Medicine, doctors of Dentistry, biomedical scientists and doctors of Pharmacy.

Additionally, the University of Florida has started an institution-wide effort to become the first “Artificial Intelligence Institution,” teaching AI across all areas, while also being a nationally recognized leader in AI research, AI-based medicine, etc. To complement this effort, UF has partnered with NVIDIA to provide state-of-the-art AI computing resources to training models across all areas of research. Thus, this program will strengthen our health science education programs by training future health educators in AI, to effectively utilize AI to assess and improve how they train future health and biomedical scientists. Therefore, this program will have profound ramifications throughout the health sciences, but also the College of Education, which covers some courses to develop and implement this program.

- c. Provide the date the pre-proposal was presented to the Council of Academic Vice Presidents Academic Program Coordination (CAVP ACG). Specify whether any concerns were raised, and, if so, provide a narrative explaining how each concern has been or will be addressed.**

This program has not been submitted to the CAVP.

- D. In the table below, provide a detailed overview and narrative of the institutional planning and approval process leading up to the submission of this proposal to the Board office. Include a chronology of all activities, providing the names and positions of both university personnel and external individuals who participated in these activities.**
- **If the proposed program is a bachelor's level, provide the date the program was entered into the APPRiSe system, and, if applicable, provide narrative responding to any comments received from APPRiSe.**
 - **If the proposed program is a doctoral-level program, provide the date(s) of the external consultant's review in the planning table. Include the external consultant's report and the institution's responses to the report as Appendix B.**

Planning Process

Date	Participants	Planning Activity Description
Spring 2022	Master in Healthcare Education – AI planning Team	Development of statement of work; Curriculum and logistic planning; Started university and BOG proposal
Fall 2022	Curriculum development in partnership between the College of Education and College of Medicine	Outline course content and degree requirements
November 2022	UF College of Medicine Pathology Department established as the home department to manage this degree program	Academic department established for degree program
January 2023	Master of Healthcare Education degree curriculum and support approved by the Deans of the College of Medicine and the College of Education	College of Medicine and College of Education approval
September 13, 2023	Master of Healthcare Education pre-proposal reviewed and approved	CAVP Academic Coordinating Group Approval

E. Provide a timetable of key events necessary for the implementation of the proposed program following approval of the program by the Board office or the Board of Governors, as appropriate, and the program has been added to the State University System Academic Degree Program Inventory.

Date	Implementation Activity	
January 2023	Master’s degree Program added to UF Accountability Report	Academic affairs approval
March 2023	Graduate School Curriculum Committee	Graduate School approval
June 2023	Florida Board of Governors	Board of Governors approval of Accountability Report
September 2023	SUS Academic Coordinating Group	Pre-proposal goes to SUS Academic Coordinating Group for approval
October 2023	UF Office of Academic Affairs and Office of Institutional Planning and Research	Enter degree proposal into the Academic Approval System
September 2024	Program Pre-proposal review by CAVP Academic Coordinating Group	CAVP Academic Coordinating Group Approval (September 12, 2023)
January 2024	Graduate Approval Council	GAC approval
February 2024	Faculty Senate	Faculty Senate approval
March 14, 2024	UF Board of Trustees	Proposal approved by UF Board of Trustees – send to the Board of Governors
Fall 2024	Board of Governors	Board of Governors approval

Institutional and State Level Accountability

III. Need and Demand

A. Describe the workforce need for the proposed program. The response should, at a minimum, include the following:

- **current state workforce data as provided by Florida’s Department of Economic Opportunity**
- **current national workforce data as provided by the U.S. Department of Labor’s Bureau of Labor Statistics**
- **requests for the proposed program from agencies or industries in your service area**
- **any specific needs for research and service that the program would fulfill**

According to a 2018 article published in the Journal of Academic Medicine, medical professionals have been slow to adopt emergent techniques to improve medical education and training, despite a proliferation of research, tools, and collected data (Chan et al., 2018). Consequently, many health professionals lack the training to analyze and interpret available large, complex datasets. A more recent article from Brent and associates (2021) in the Journal of Academic Medicine suggests that artificial intelligence has the potential to leverage the incredible amount of assessment data that are being collected by EPA-based CBME assessment systems in ways that will benefit trainees, programs, and systems. However, their utilization also presents new and potentially dangerous challenges. To move forward safely, we will need to consider and build upon the ethical principles of artificial intelligence that have been developed in the broader fields of education and computer science (p.s94). Consequently, there is a need for medical education programs to prepare educators and administrators to use artificial intelligence tools and strategies to improve proximal educational and distal medical outcomes.

Occupational outlook and job postings

Learning and data analytics generally represent a growing and extremely broad occupational domain that includes several different industries. Thus, it is difficult to analyze, especially within the equally broad confines of medical education. This analysis was conducted in two parts: first we looked at occupations and job postings relevant to those individuals who would be interested in pursuing a medical education degree, and then we looked at similar data for a data analytics degree. According to Lightcast market analysis software, the major occupations with ties to academic programs related to medical/health education (CIP code 51.32xx) included postsecondary teachers, managers (all other), human resource specialists, medical and health service managers, postsecondary education administrators, community health workers, and social scientists and related workers (see table 1).

Table 1. *Occupational outlook for areas related to academic program CIP codes 51.32 2022-2032*

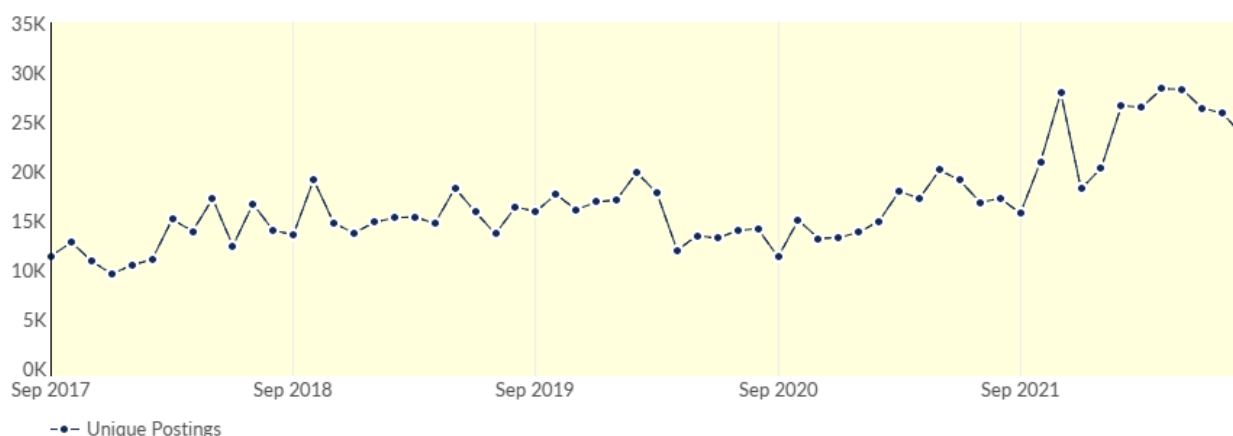
Description	2022 Jobs	2032 Jobs	% Change
Postsecondary Teachers	1,307,898	1,415,376	8%
Human Resources Specialists	763,401	835,220	9%
Managers, All Other	519,129	557,604	7%
Medical and Health Services Managers	455,188	573,073	26%
Education Administrators, Postsecondary	151,854	161,915	7%

Community Health Workers	62,794	73,993	18%
Social Scientists and Related Workers, All Other	36,602	37,476	2%
Total	3,296,866	3,654,656	11%

The average growth in these broad occupational categories in the next ten years was eleven percent, which is greater than the overall seven percent predicted growth in all professions by the US Bureau of Labor Statistics (USBL).

From this list of occupations, an analysis was conducted to determine the most common job postings. The selected job postings were filtered by relevant industries including educational services, health care and social assistance, professional scientific, and technical services, information, and public administration and by postings seeking applicants with a master’s degree. This search provided 1.02 million unique job postings during the last five years (between August 2017 and August 2022). Posting intensity, which is a statistic used to gauge effort employers have used to hire for these positions (total job postings/unique job postings), was 3:1 for the five-year period, which is equivalent to the national average. Unique job postings also increased from 11,367 in August 2017 to 23,600 in August 2022 – a 207% increase over a five-year period (see figure 1).

Figure 1. Unique job posting trends for medical education related jobs, filtered by five primary industries and degree, August 2017 – August 2022



A narrower analysis was conducted to follow up on the job posting data using only one industry, specifically health care and social assistance, to see if jobs in adjacent sectors were influencing the trends. In this case, there were 271,885 unique job postings in the same five-year period with a similar 3:1 posting intensity. Monthly unique job postings increased at about the same rate as the larger analysis, with 210% growth – from 2,666 unique postings in August 2017 to 5,605 in August 2022 (see figure 2). A list of the top twenty job postings for this search are included in table 2. Our interpretation of this broad occupational and job posting data is that there is above average growth expected in this and adjacent occupational sectors. When looking deeper into the skills employers are looking for, however, there is very little mention of learning analytics. When using “learning analytics” as a keyword search, only 441 unique job postings remained. For us, this suggests that although there is growing research on the importance of learning analytics in medical education broadly, and more conversation regarding the importance in the medical community, few job postings are specifically seeking it out.

Figure 2. Unique job posting trends for medical education related jobs, filtered by health

industry and degree, August 2017 – August 2022

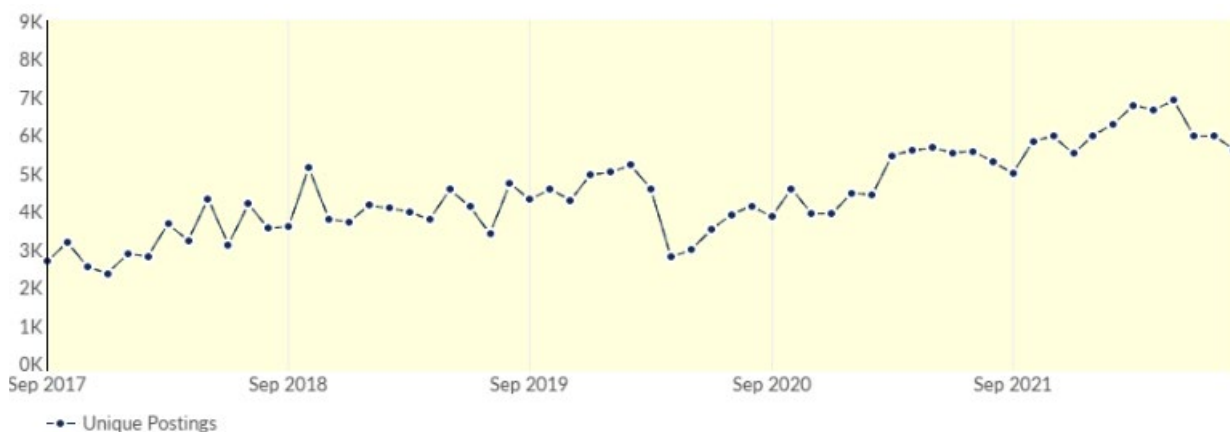


Table 2. Top 20 job posting titles for positions related to broad occupations interested in medical education training, requiring a master’s degree, and filtered by the health industry

Job Title	Total/Unique (Aug 2017- Aug 2022)	Posting Intensity
Clinical Supervisors	16,700 / 5,957	3:1
Directors of Nursing	12,900 / 4,610	3:1
Program Managers	10,736 / 3,894	3:1
Directors of Rehabilitation	6,935 / 3,481	2:1
Clinical Managers	8,736 / 3,442	3:1
Program Directors	7,815 / 3,277	2:1
Chief Nursing Officers	9,444 / 3,189	3:1
Clinical Directors	6,831 / 2,540	3:1
Directors of Behavioral Health	6,416 / 2,094	3:1
Directors of Clinical Services	5,591 / 1,960	3:1
Directors of Surgical Services	5,615 / 1,842	3:1
Behavioral Health Care Managers	6,413 / 1,833	3:1
Human Resources Business Partners	6,831 / 1,599	4:1
Practice Managers	4,097 / 1,339	3:1
Care Managers	5,494 / 1,307	4:1
Directors of Case Management	3,567 / 1,237	3:1
Directors of Operations	2,943 / 1,177	3:1
Directors of Patient Care Services	3,619 / 1,134	3:1
Executive Directors	3,147 / 1,104	3:1
Directors of Clinical Operations	3,040 / 1,030	3:1

Finally, we looked at occupations associated with a degree in data analytics. According to Lightcast, the top five broad occupational categories associated with a master’s degree in data analytics were postsecondary teachers, management analysts, computer programmers, data scientists, and statisticians (see table 3). The growth in these occupational categories predicted to be nine percent over the next ten years, although the individual occupational categories showed significant variance.

Table 3. Occupational outlook for areas related to academic program CIP codes 30.7101 Data Analytics, General, 2022-2032

Description	2022 Jobs	2032 Jobs	% Change
Postsecondary Teachers	1,307,898	1,415,376	8%
Management Analysts	808,657	901,851	12%
Computer Programmers	153,172	142,014	-7%
Data Scientists	111,805	140,097	25%
Statisticians	33,750	43,012	27%
Total	2,415,283	2,642,350	9%

From this list of occupations, an analysis was conducted to determine job posting data. The selected job postings were filtered by the health care and social assistance industry and by jobs seeking a master’s degree. In this case, there were 41,250 unique job postings in the same five-year period with a similar 3:1 posting intensity. Monthly unique job postings increased at an even higher rate than the previous analysis, with 275% growth – from 394 unique postings in August 2017 to 1,082 in August 2022 (see figure 3). However, it should be noted that the top jobs (those with more than 400 unique postings over 5 years) were almost entirely different from the list generated by the medical education analysis. Ideally, you would like to see some overlap in this data to demonstrate an overlap between analytics and medical education (see table 4).

Figure 3. Unique job posting trends for data analytics related jobs, filtered by health industry and degree, August 2017 – August 2022

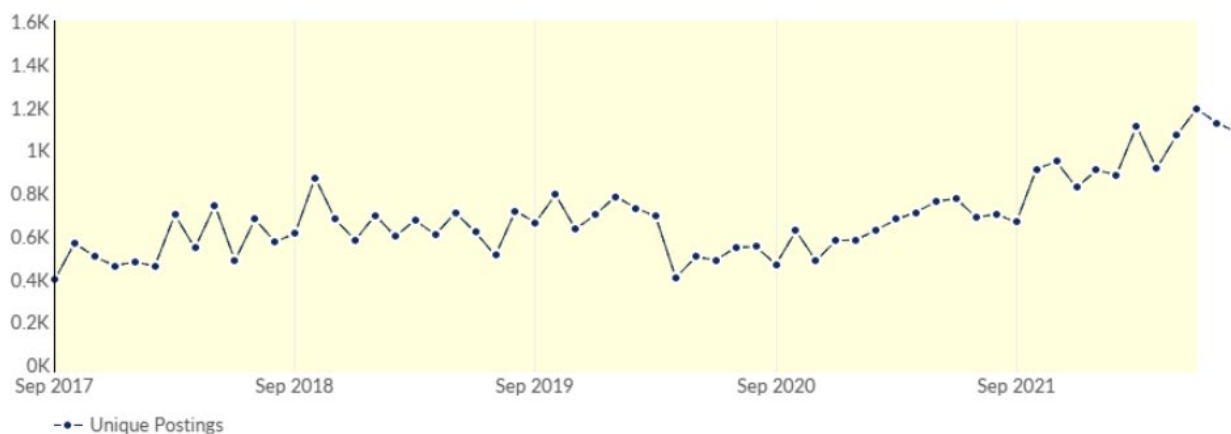


Table 4: Top job posting titles for positions related to broad occupations interested in medical education training, requiring a master’s degree, and filtered by the health industry (more than 400 unique postings over 5 years)

Job Title	Total/Unique (Aug 2017-Aug 2022)	Posting Intensity
Data Scientists	4,487 / 1,434	3:1
Biostatisticians	3,417 / 1,252	3:1
Data Analysts	4,080 / 1,164	4:1
Business Analysts	3,984 / 1,151	3:1
Adjunct Faculties	2,987 / 1,028	3:1
Business Intelligence Analysts	1,661 / 600	2:1
Behavior Consultants	1,168 / 491	2:1
Bioinformaticians	1,458 / 437	3:1
Bioinformatics Scientists	1,443 / 426	3:1

Academic Trends

To determine academic trends, we looked at data from the integrated post-secondary education data system (IPEDS). We used master's degree completions to determine student interest. It is important to note that related programs may be categorized under different CIP codes, hence this analysis is not a complete picture of the academic landscape, but rather a means by which to approximate trends in fields like the proposed program (see figure 3). In this analysis, two CIP codes were analyzed separately, 51.32xx which included health professions education, nursing education, health professions education, ethics, and other humanities, arts in medicine/health, medical/health humanities, and bioethics/medical ethics, and 30.7101 which included data analytics, general.

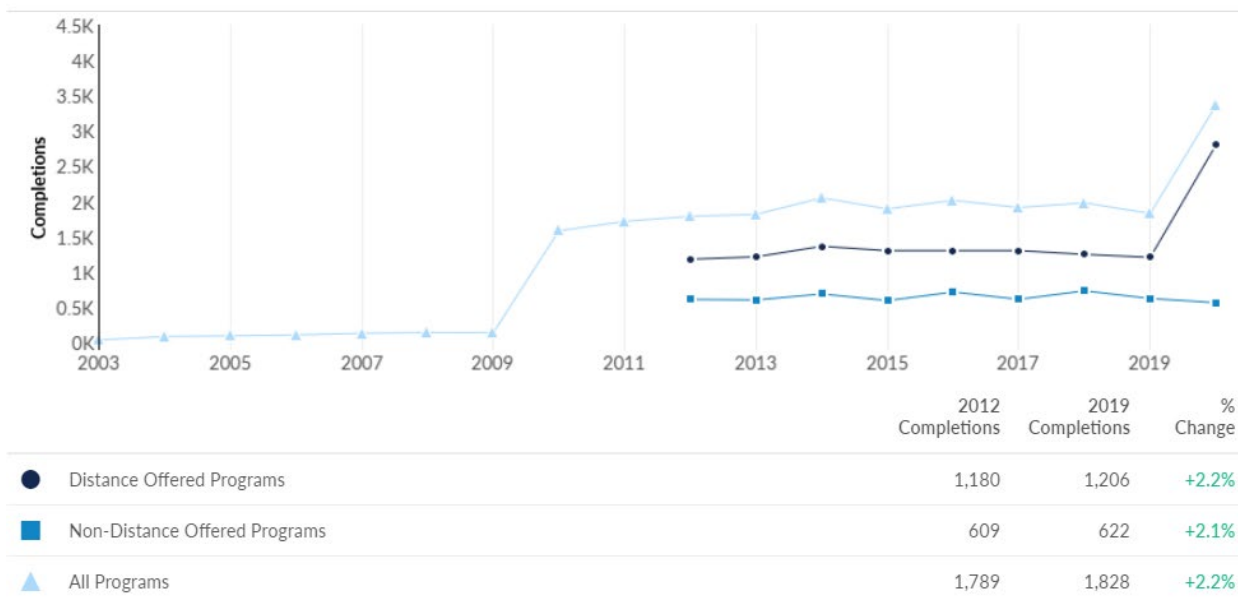
For CIP codes 51.32xx using completions year 2020 (last on file) we found 3,362 master's degree completions across 141 programs. Much of the market share was controlled by private not-for-profit, 4-year institutions, which included 66.5% of the completions, compared to 17.1% for public 4-year or above, and 16.3% for private for-profit 4-year or above. Most students (83%) completed their degrees online. Most of these programs were related to nursing education, following by bioethics/medical ethics, and medical/health humanities (see figure 4).

Figure 4: Breakdown of 2020 master's degree completions by program type



The number of degree completions rose sharply in 2020, due to Western Governors University reporting 1,239 completions while reporting no prior completions the year prior. Ignoring that outlier, and looking at degree completions from 2012-2019, there was very little growth in medical education programs across any of the CIP codes (see figure 5). The average estimated cost, per credit hour, for an out of state student attending one of these institutions was estimated at \$943 per student credit hour at the graduate level (note that this is just an estimate using reported IPEDS data).

Figure 5: Growth in degree completions for medical education master’s degrees related to CIP code 51.32xx, 2012-2019



For CIP code 30.7101 using completions year 2020 we found only 235 master’s completions across 15 institutions. According to IPEDS data, only two of these programs were available online. The completions were essentially split between public, 4-year or above (51.5%) and private not-for-profit, 4-year or above institutions (48.5%). There may have been some issues with the IPEDS data, as only completions in 2020 were reported, with no prior years reporting degree completions for this CIP code, so growth trends could not be analyzed. The average cost per credit out-of-state for these programs was estimated by IPEDS to be \$928.

In the state of Florida, 2021 IPEDS data indicates that no institution in the state of Florida was offering a graduate level program associated with CIP code 30.7101. The University of North Florida began offering a graduate program in Business Analytics (CIP code 30.7102) in Fall of 2021. This program leads to an MSBA and consists of 30 credit hours and is offered primarily online.

No public institutions in Florida offer an academic program that shares CIP code 51.32xx. Several private institutions in Florida maintain programs with 51.32xx codes, though only one reported graduates in 2020-2021. The majority of the 51.32xx programs are focused in Nursing Education and, as mentioned, reported no graduates in 2020-2021. St. Thomas University’s Master of Science in Bioethics/Medical Ethics is not related to the proposed program.

- University, Miami, Florida: CIP: 51.3202, Master of Science in Nursing Education 2020-2021 completions: 0
- Florida Southern College, Lakeland, Florida: CIP: 51.3202, Master of Science in Nursing Education 2020-2021 completions: 0
- South University – Tampa, Tampa, Florida: CIP: 51.3202, Master of Science in Nursing Education 2020-2021 completions: 0

- St. Thomas University – Miami Gardens, Florida: CIP: 51.3202, Master of Science in Bioethics/Medical Ethics 2020-2021 completions: 7
- University of Miami, Coral Gables, Florida: CIP: 51.3202, Master of Science in Bioethics/Medical Ethics 2020-2021 completions: 0

Conclusion

Based on this analysis, there is significant competition in the academic market for a master's degree in medical education, especially online. However, there appears to be much less competition for a master's degree in data analytics – most notably online where very few options are available. Given that the number of monthly unique job postings for jobs related to data analytics is five times higher than the annual number of degree completions and growing rapidly (275% growth in 5 years) there appears to be significant demand and limited supply for this educational path. Further, UF using the self-supporting designation could offer a lower and competitive out-of-state tuition rate than most of their competitors, which would allow the college of medicine to be attractive nationally.

References

Chan, T., Sebok-Syer, S., Thoma, B., Wise, A., Sherbino, J., & Pusic, M. (2018). Learning analytics in medical education assessment: the past, the present, and the future. *AEM Education and Training*, 2(2), 178-187.

Thoma, B., Ellaway, R. H., & Chan, T. M. (2021). From Utopia through Dystopia: charting a course for learning analytics in competency-based medical education. *Academic Medicine*, 96(7S), S89-S95.

B. Provide and describe data that support student demand for the proposed program. Include questions asked, results, and other communications with prospective students.

See previous section.

C. Complete Appendix A – Table 1 (1-A for undergraduate and 1-B for graduate) with projected student headcount (HC) and full-time equivalents (FTE).

- Undergraduate FTE must be calculated based on 30 credit hours per year
- Graduate FTE must be calculated based on 24 credit hours per year

In the space below, provide an explanation for the enrollment projections. If students within the institution are expected to change academic programs to enroll in the proposed program, describe the anticipated enrollment shifts and impact on enrollment in other programs.

See Table 1 for anticipated enrollment during the first 5 years of the program. The estimates are based on initial enrollment for the Johns Hopkins MHPE.

D. Describe the anticipated benefit of the proposed program to the university, local community, and the state. Benefits of the program should be described both quantitatively and qualitatively.

The rapid rise of AI technologies alongside unparalleled ways to capture, store, harmonize, and analyze data present a unique opportunity to lead the University of Florida towards being the national leader in AI-based healthcare education. This program will provide extensive training for healthcare educators and leaders in AI-centered education. This will allow the university to train healthcare educators:

1. Use AI to better train and assess future healthcare providers
2. Train current providers, residents, and fellows in AI and healthcare education
3. Train at least one physician per department to then train their own department in data-driven healthcare
4. Build UF AI capacity
5. Become a nationally recognized leader in AI-based healthcare education

E. If other public or private institutions in Florida have similar programs that exist at the four- or six-digit CIP Code or in other CIP Codes where 60 percent of the coursework is comparable, identify the institution(s) and geographic location(s). Summarize the outcome(s) of communication with appropriate personnel (e.g., department chairs, program coordinators, deans) at those institutions regarding the potential impact on their enrollment and opportunities for possible collaboration in the areas of instruction and research.

Not applicable: there are no other program in the states that are similar to the one proposed here based on the comparison between our core curriculum and existing CIP Code in the State.

F. Describe the process for the recruitment and retention of a diverse student body in the proposed program. If the proposed program substantially duplicates a program at FAMU or FIU, provide a letter of support from the impacted institution(s) addressing how the program will impact the institution's ability to attract students of races different from that which is predominant on the FAMU or FIU campus. The institution's Equal Opportunity Officer shall review this Section of the proposal, sign, and date the additional signatures page to indicate that all requirements of this section have been completed.

The applicant pool for the MHE-AI will consist of professionals with a terminal clinical medical degree and those with an advanced degree in the social sciences or education related field such health education, public health or general education with experience in healthcare education. Outstanding diverse students will be recruited through the Association of American Medical Colleges, Society for Simulation in Healthcare as well as GRE Search Service, National Name Exchange, and State of Florida Public University student access. A novel, STEM degree program focuses on a need within medical education will help to increase the diversity of students trained in the applied data sciences. This program is not a duplication of a program at FAMU or FIU and, therefore, the program will not compete with FAMU or FIU, but instead, it will work directly with these institutions to grow underrepresented students' participation contemporary medical education in the SUS.

IV. Curriculum

A. Describe all admission standards and all graduation requirements for the program. Hyperlinks to institutional websites may be used to supplement the information provided in this subsection; however, these links may not serve as a standalone response. For graduation requirements, please describe any additional requirements that do not appear in the program of study (e.g., milestones, academic engagement, publication requirements).

A recognized baccalaureate, graduate or professional degree from a college, university, or higher education institution accredited by the Higher Learning Commission, the Middle States Commission on Higher Education, the New England Commission of Higher Education, the Northwest Commission on Colleges and Universities, the Southern Association of Colleges and Schools, the Western Association of Schools and Colleges, or a comparable degree from an international institution.

Admission to the program is a collaborative decision between the program faculty. Admission decisions are made on a rolling basis. Decisions will continue to be made through the summer semester until all spaces in the program have been filled.

Required Program Application Materials

1. Curriculum Vitae/Resume

Pursuant to Florida Statute, your application requires inclusion of all post-high school education and employment, as well as information about ongoing international affiliations and research funding. Please ensure this information is included on your curriculum vitae (CV) or résumé.

2. Statement of Purpose

This is your letter of intent. This is shorter in length than the scholarly paper.

3. Scholarly Paper

We seek evidence that you can present a thesis, develop an idea, and present your ideas on paper. Students may write on any topic or submit a scholarly paper that they have individually authored or collaborated on as an author. The paper must include citations and a reference list. The paper should be no longer than 3-5 pages.

UF faculty members in tenured or tenure-accruing positions, as designated by Regulations of the University of Florida, 7.003, normally may not pursue graduate degrees from this institution. Exceptions are made for the Florida Cooperative Extension Service (IFAS) county personnel, the faculty of the P. K. Yonge Laboratory School, and University Libraries faculty. Graduate Council policies have also established limited exceptions for persons holding faculty positions that do not include tenure or tenure accrual, and for specified degree programs, including the online MBA. Other exceptions to this policy must be approved by the Graduate Council. Such exceptions, if given, are rare and will only be approved if pursuit of the proposed graduate degree program is determined to be in the best interest of the University and the Colleges involved.

4. GRE/GMAT and Test of English as a Foreign Language

For applicants with a bachelor’s degree only, a minimum grade point average of B (3.0), calculated from all grades and credits after the semester where the applicant reached 60 semester hours or 90 quarter hours is required.

GRE scores are not required.

Applicants who voluntarily submit GRE scores even if they are not required for admission to a particular UF degree program may be neither penalized nor advantaged in the admission process for that program based on the GRE scores.” During the transition to the programming in SLATE, faculty, and staff must take great caution to ensure applicants submitting GREs are not evaluated using those scores within the same pool as others who apply without the requirement during that same admission cycle. program. Academic test scores are used in the context of a holistic credential review process.

For applicants from countries where English is not the official language, a minimum score on one of these English Language Skills tests:

Test of English as a Foreign Language (TOEFL): 550 paper, or 80 Internet;
International English Language Testing System (IELTS): 6; or
Documented successful completion of the University of Florida English Language Institute program.

Prospective students must submit a University of Florida Graduate School application. Prospective students wishing to transfer context specific credits into the program must possess a health professions degree (MD, DO, DMD, DVM, RN, MPH, etc.) and licensure (if appropriate) at the time of application.

B. Describe the specific expected student learning outcomes associated with the proposed program. If the proposed program is a baccalaureate degree, include a hyperlink to the published Academic Learning Compact and the document itself as Appendix C.

Student Learning Outcomes (SLOs) for the MHE degree program. Students must score 70% or higher on related assessment to achieve the SLOs. Program Outcome is met if 80% of the students score 70% or higher on all assessments related to the SLOs.

Learning Outcome	Assessment/Measure
SLO 1: Develop exemplary educators for the healthcare professions who effectively integrate adult learning theory, evidence-based teaching and curriculum development, reflective practice, hypothesis-driven approach to instruction and assessment into their practice, and who share their discoveries.	<i>Assessment method:</i> Presentation of the final project in the “Practicum in Educational Analytics and Artificial Intelligence” course. <i>Outcome Measure:</i> Successful presentation will be measured through the <i>Capstone Rubric</i> which outlines the grading criteria that linked to learning objectives that students must be able to do. To achieve the SLO1, student must receive a score of 70% or higher.

<p>SLO 2: Prepare effective educational leaders for the healthcare professions who design educational change related initiatives using a five-phase methodology: analysis, design, development, implementation, and evaluation.</p>	<p>Assessment method: Presentation of the final project in “EME 6609 Instructional Design” course.</p> <p>Outcome Measure: Successful presentation will be measured through the <i>Capstone Rubric</i> which outlines the grading criteria that linked to learning objectives that students must be able to do. To achieve the SLO2, student must receive a score of 70% or higher.</p>
<p>SLO 3: Prepare researchers of health professionals’ education who design analytic studies based on sound educational research methodology, implement them appropriately, analyze results and apply findings, and prepare their work as publishable papers.</p>	<p>Assessment method: Presentation of the final project in the “Practicum in Educational Analytics and Artificial Intelligence” course.</p> <p>Outcome Measure: Successful presentation will be measured through the <i>Capstone Rubric</i> which outlines the grading criteria that linked to learning objectives that students must be able to do. To achieve the SLO3, student must receive a score of 70% or higher.</p>

C. If the proposed program is an AS-to-BS capstone, provide evidence that it adheres to the guidelines approved by the Articulation Coordinating Committee for such programs, as outlined in [State Board of Education Rule 6A-10.024](#). Additionally, please list the prerequisites, if any, and identify the specific AS degrees that may transfer into the proposed program.

Not applicable to this program because it is not an AS-to-BS Capstone.

D. Describe the curricular framework for the proposed program, including the following information where applicable:

- total numbers of semester credit hours for the degree
- number of credit hours for each course
- required courses, restricted electives, and unrestricted electives
- a sequenced course of study for all majors, concentrations, tracks, or areas of emphasis

M.S. non-thesis program, online, asynchronous.

E. Provide a brief description for each course in the proposed curriculum.

Required Courses (all courses are Letter Graded)

Focus	Course Number	Course Description	Course Home	Credits

Education CORE (12)	EME 6609 Instructional Design	Focuses on the application of instructional design principles to the development of instruction. Topics include contemporary issues and trends in instructional design, foundations in learning research, requirements for instruction, task and needs analysis, learning situations and instructional models, learner characteristics, hardware and software innovations, assessing instructional outcomes, and factors affecting utilization.	COE	3
	EME 6637 Managing and Analyzing Multimodal Data	This course is designed to prepare educational researchers and practitioners to manage and analyze multimodal educational data. In this online course, students will learn about the unique characteristics of multimodal educational data and apply appropriate techniques to discover useful knowledge and insights.	COE	3
	GMS 6958 Foundations of Healthcare Education	This course will serve as an in-depth introduction to core principles in healthcare education. In this course, learners will explore a variety of core concepts through a review of the literature, reflective activities, small group discussion and practical skills-building exercises to review both theory and practice of health sciences training. Topics in this initial course will include definitions of learning and teaching, developing learning contracts and goal setting, adult learning principles, experience and reflection, and competency-based training.	COM	3
	GMS 6XXX Research Design in Healthcare Education (Approval #18421)	This course will familiarize students with the process of identifying research problems, forming research questions, reviewing, critiquing, and summarizing research as a tool for better understanding and influencing HSE practice and policy. We will explore the fundamentals of quantitative, qualitative, and mixed methods research, how to interpret and present data, how to adhere to	COM	3

		ethical principles that guide educational research, and how to develop a small-scale research proposal of their own.		
AI CORE	GMS 6956 Artificial Intelligence in Healthcare Education I	This course is designed to equip students with the ability to leverage educational data collected from technology-enhanced learning environments. In addition to the basic concept and process of artificial intelligence, students will build a foundational knowledge of artificial intelligence. Students will also have opportunities to process and analyze various types of real-world educational data to discover useful insights and knowledge. The goal of this course is to prepare students to be a successful educational researcher and practitioner who can use artificial intelligence in their specific subject area.	COM	3
	GMS 6957 Artificial Intelligence in Healthcare Education II	This course will build on the knowledge and skills acquired during Learning Analytics/Artificial Intelligence in the Health Professions I. Students will develop the skills necessary to manipulate, analyze, visualize and present data in Python.	COM	3
Seminar	GMS 7XXX Practicum in Learning Analytics and Artificial Intelligence (Approval #18417)	This course will serve as a culminating experience for learners. Learners will apply knowledge and skills learned during coursework to design and implement a scholarly project using AI/ML methods. The final project will consist of a publication-ready manuscript.	COM	3

Elective Courses – Terminal/graduate level health professions degree (select 3)

Focus	Course Number	Course Description	Course Home	Credits
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Electives	EME 6074 Mobile Technologies in Education	Mobile technologies have become ubiquitous and provide access to information and learning materials for anyone, anyplace. This eight-week online course explores how these technologies (e.g. tablets, augmented reality applications, wearables) are currently being used to teach and to learn in formal and informal environments. National and international case studies and projects across contexts and disciplines will be analyzed with a focus on implementation. Students will identify common strategies used for integrating mobile technologies and how these are adapted based on socio-political, economic, and educational contexts.	COE	3
	EME 6458 Distance Teaching and Learning	This course explores forms of synchronous and asynchronous interactive distance education from perspectives of theory and practice. Designed for K-12 and higher education instructors and administrators as well as trainers and instructional designers from other professional settings, the course focuses on the interpretation and application of theory, research and standards-based effective practice to the design, development, and evaluation of distance education experiences. Skills and knowledge acquired in the course will contribute to distance and classroom teaching capabilities. Topics include theoretical bases and critical issues in design for distance learning; developing distance instruction; and applying design and learning standards in a range of development and delivery tools.	COE	3

	EME 6208 Designing Integrated Media Environment s I	This course is designed as an introduction for educators, trainers and instructional designers in all educational contexts who are interested in teaching with technology or developing technology-enhanced content. Students will apply instructional design and usability principles to develop and evaluate e-learning materials and applications (e.g., e-portfolio, online quiz, screencast, digital video etc) using open source alternatives to commercial software like Adobe Photoshop, Dreamweaver, and Camtasia as well as HTML, CSS, and Javascript.	COE	3
	EME 6209 Designing Integrated Media Environment s II	Study of development and problem-solving as applied to real world educational problems with solutions designed and implemented in various programming and scripting languages. Topics include data types, logic, relational operations, flowcharting, sequence, selection, repetition, functions, arrays, file i/o, object-orientation, relational database design, entity-relationship diagrams, design principles, testing, and debugging. Prior programming experience is neither assumed nor required.	COE	3
	EME 6606 Advanced Instructional Design	Focuses on the student who is becoming an instructional design (ID) professional by refining skills and adding to the skills learned in the beginning Instructional Design course, building on the foundational knowledge about the practice of ID, and encouraging the development of communication skills through formal project management.	COE	3

	EME 6059 Blended Learning Environments	This eight-week online course explores blended learning from perspectives of theory and practice and is designed for educators and instructional designers in all educational environments (e.g. K-12, higher education, corporate environments, non-profit organizations). It focuses on the application of theory and research to pedagogy and curriculum design to achieve a synergy between online and classroom environments. Topics include theoretical frameworks and best practices in blended learning, institutional perspectives and assessment, and the design and implementation of a blended curriculum.	COE	3
	EME 6156 Games and Simulations for Teaching and Learning	Topics include the characteristics and terminology of games and simulations; development life cycles; design principles; evaluation; virtual worlds; and an emphasis on connecting principles of learning and teaching to the design of games and simulations. Students practice these concepts in several assignments relating to educational contexts.	COE	3

F. For degree programs in medicine, nursing, and/or allied health sciences, please identify the courses that contain the competencies necessary to meet the requirements identified in [Section 1004.08, Florida Statutes](#). For teacher preparation programs, identify the courses that contain the competencies necessary to meet the requirements outlined in [Section 1004.04, Florida Statutes](#).

Not applicable to this program because the program is not a medicine, nursing, allied health sciences, or teacher preparation program.

G. Describe any potential impact on related academic programs or departments, such as an increased need for general education or common prerequisite courses or increased need for required or elective courses outside of the proposed academic program. If the proposed program is a collaborative effort between multiple academic departments, colleges, or schools within the institution, provide letters of support or MOUs from each department, college, or school in Appendix D.

The program incorporates coursework from the University of Florida College of Education as well as new courses that focus on healthcare education and learning analytics-specific content. We anticipate that the newly developed courses will be of value to working health science professionals as well as graduate students enrolled in biomedical sciences programs, education programs, healthcare degree programs and student services programs.

See letter of support from College of Education.

H. Identify any established or planned educational sites where the program will be offered or administered. If the proposed program will only be offered or administered at a site(s) other than the main campus, provide a rationale.

The program will be offered online.

I. Describe the anticipated mode of delivery for the proposed program (e.g., face-to-face, distance learning, hybrid). If the mode(s) of delivery will require specialized services or additional financial support, please describe the projected costs below and discuss how they are reflected in Appendix A – Table 3A or 3B.

The program will be offered online. The costs associated with online delivery are included in the budget.

J. Provide a narrative addressing the feasibility of delivering the proposed program through collaboration with other institutions, both public and private. Cite any specific queries made of other institutions with respect to shared courses, distance/distributed learning technologies, and joint-use facilities for research or internships.

NA

K. Describe any currently available sites for internship and/or practicum experiences. Describe any plans to seek additional sites in Years 1 through 5.

Not applicable to this program because the program does not require internships or practicums.

V. Program Quality Indicators - Reviews and Accreditation

- A. List all accreditation agencies and learned societies that would be concerned with the proposed program. If the institution intends to seek specialized accreditation for the proposed program, as described in [Board of Governors Regulation 3.006](#), provide a timeline for seeking specialized accreditation. If specialized accreditation will not be sought, please provide an explanation.**

The graduate programs (both MS and PhD) in the College of Medicine were fully accredited by the Liaison Committee on Medical Education (LCME) in 2015, the next accreditation visit occurred in January 2023 (the results will be provided in June 2023). The University is accredited through SACSCOC (Southern Association of Colleges and Schools Commission on Colleges), and accreditation was reaffirmed in 2014, with the fifth-year interim report submitted in 2019. The next full review will take place in 2024.

- B. Identify all internal or external academic program reviews and/or accreditation visits for any degree programs related to the proposed program at the institution, including but not limited to programs within academic unit(s) associated with the proposed degree program. List all recommendations emanating from the reviews and summarize the institution's progress in implementing those recommendations.**

University of Florida College of Education, Adult Education Certificate

- C. For all degree programs, discuss how employer-driven or industry-driven competencies were identified and incorporated into the curriculum. Additionally, indicate whether an industry or employer advisory council exists to provide input for curriculum development, student assessment, and academic-force alignment. If an advisory council is not already in place, describe any plans to develop one or other plans to ensure academic-workforce alignment.**

Curriculum development and student assessment are driven by the Liaison Committee on Medical Education (LCME), the Accreditation Counsel on Graduate Medical Education, Association of American Medical Colleges and the American Association of Colleges of Osteopathic Education and the Society for Learning Analytics Research (SOLAR). At the present time there is no specialized accreditation or professional certification associated with Healthcare Education Degrees. Yet, several of the aforementioned organizations have provided guidance on competencies for Healthcare Educators. Course outcomes and assessments were developed using this guidance. Source documents include:

ACGME, AACME, AAMC, AACOM. (2022). Clinician educator milestones: Report worksheet. Accreditation Council for Graduate Medical Education (ACGME). Washington, DC.

Feldman, S. S., Allgood, A., Hall, A. G., Lemak, C. H., & Berner, E. S. (2022). Competency analysis and educational strategies to meet the demand for a learning health system workforce. *Learning Health Systems*, e10324.

VI. Faculty Participation

A. Use Appendix A – Table 2 to identify existing and anticipated full-time faculty who will participate in the proposed program through Year 5, excluding visiting or adjunct faculty. Include the following information for each faculty member or position in Appendix A – Table 2:

- the faculty code associated with the source of funding for the position
- faculty member's name
- highest degree held
- academic discipline or specialization
- anticipated participation start date in the proposed program
- contract status (e.g., tenure, tenure-earning, or multi-year annual [MYA])
- contract length in months
- percent of annual effort that will support the proposed program (e.g., instruction, advising, supervising)

This information should be summarized below in narrative form. Additionally, please provide the curriculum vitae (CV) for each identified faculty member in Appendix E.

Faculty Name	Highest Degree Earned	Academic Discipline	Contract Status	Contract Length (Mos)	Effort
Colleen Kalynych	EdD	Education & Educationl Leadership	MYA	12	.1 FTE
Phuong Huynh	PhD	Educational Technology	MYA	12	.1 FTE
François Modave	PhD	Computer Science	MYA	12	.1 FTE
Jason Byrd	PhD	Entomology	MYA	12	.05 FTE
RoseMarie Fernandez	MD	Medicine	MYA	12	.05 FTE

See Appendix E for curriculum vitae of involved faculty members.

B. Provide specific evidence demonstrating that the academic unit(s) associated with the proposed program have been productive in teaching, research, and service. Such evidence may include trends over time for average course load, FTE productivity, student HC in major or service courses, degrees granted, external funding attracted, and other qualitative indicators of excellence (e.g., thesis, dissertation, or research supervision).

Faculty in the Department of Pathology, Immunology, and Laboratory Medicine are internationally recognized in graduate education and are also active in research and service at the national, state, and local level. Since 2009, department faculty have created over 70 graduate courses, designed 4 graduate certificates, and developed 4 MS degree concentration programs. Collectively, these programs have current UF student enrollment of over 600 graduate students. A departmental priority is to increase the scope of these distance education programs to include medical education. Our faculty members are well-accomplished in their education and

teaching missions for graduate and professional students. Department faculty also direct on-campus graduate students and serve on many education-centered University and College of Medicine (COM) committees that include Graduate Education, Graduate Student Admission, Curriculum, and Academic Status committees. As a result of the success of prior distance education programs, the department is well suited to expand current distance education programs.

VII. Budget

- A. Use Appendix A – Table 3A or 3B to provide projected costs and associated funding sources for Year 1 and Year 5 of program operation. In narrative form, describe all projected costs and funding sources for the proposed program(s). Data for Year 1 and Year 5 should reflect snapshots in time rather than cumulative costs.
- B. Use Appendix A – Table 4 to show how existing Education & General (E&G) funds will be reallocated to support the proposed program in Year 1. Describe each funding source identified in Appendix A – Table 4, and provide a justification below for the reallocation of resources. Describe the impact the reallocation of financial resources will have on existing programs, including any possible financial impact of a shift in faculty effort, reallocation of instructional resources, greater use of adjunct faculty and teaching assistants, and explain what steps will be taken to mitigate such impacts.
- C. If the institution intends to operate the program through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-level tuition, as described in [Board of Governors Regulation 8.002](#), provide a rationale and a timeline for seeking Board of Governors' approval.
- Not applicable to this program because the program will not operate through continuing education, seek approval for market tuition rate, or establish a differentiated graduate-level tuition
- D. Provide the expected resident and non-resident tuition rate for the proposed program for both resident and non-resident students. The tuition rates should be reported on a per credit hour basis, unless the institution has received approval for a different tuition structure. If the proposed program will operate as a continuing education program per [Board of Governors Regulation 8.002](#), please describe how the tuition amount was calculated and how it is reflected in Appendix A – Table 3B.
- E. Describe external resources, both financial and in-kind support, that are available to support the proposed program, and explain how this amount is reflected in Appendix A – Table 3A or 3B.

VIII. Non-Faculty Resources

A. Describe library resources currently available to implement and/or sustain the proposed program through Year 5 below, including but not limited to the following:

- the total number of volumes and serials available in the discipline and related disciplines
- all major journals that are available to the university's students

The Library Director must sign the additional signatures page to indicate that they have review Sections VIII.A. and VIII.B.

The George A. Smathers Libraries, composed of seven libraries, constitutes the largest information resource in the state of Florida. It contains more than 5 million print volumes, one million electronic books, over 170,000 full-text electronic journals, a thousand electronic databases and over 43,000 UF theses and dissertations. In addition, the libraries provide over 425,000 links to online resources, including e-books, databases, government documents, and the full text of journals. Off-site users may access electronic resources by installing Virtual Private Network client software from <https://vpn.ufl.edu> or by logging into the proxy server at <http://www.uflib.ufl.edu/ufproxy.html>. The UF Digital Collections contains more than 300 outstanding digital collections, including over 12 million from rare books, theses and dissertations, manuscripts, newspapers, data sets, photographs and oral histories. The Digital Library Center serves as a stable repository for student and faculty publications and presentations.

The HSC Libraries' collection includes reference materials, journals, books, conference proceedings, audiovisuals and electronic resources. The Libraries' collection total more than 250,000 volumes available for immediate access or housed in a remote storage facility. We have approximately 150,000 unique monograph volumes (books) in all formats and 15,000 serial titles (journals) in all formats. Users have access to 355 databases.

The HSC Libraries include two facilities – the main library on the Gainesville campus and the Borland Health Sciences Library on the Jacksonville campus. They are affiliated with the College of Veterinary Medicine Education Center and the Health Science Center Archives. The main HSC Library in Gainesville, founded in 1956 along with the College of Medicine, is a 48,454 square foot technology-enhanced facility whose users may access 160 publicly available computers on all three floors of the Library, including 26 big screen monitors. Free wireless access is available throughout the library, and patrons not affiliated with UF may request temporary access. The library provides seating and study space for a total of 872 patrons on three floors. The Gainesville Library is open an average of 97 hours per week, has over 33,000 visitors per month, and there is 24/7 access to the second floor for HSC students who complete a registration form. Reference assistance and search help are provided at the Information Desk.

The Health Science Center Libraries provide bibliographic, statistical and 3-D printing and scanning software. Bibliographic software available on HSCL computers includes RefWorks, EndNote desktop (in the instruction lab only), Mendeley and EndNote Web (through an institution subscription to the Web of Knowledge databases). Several computer workstations within the library provide SAS and SPSS, full Adobe CS5 Suite and Acrobat X Professional software. Certain computer stations on the first floor provide access to anatomy software, including the VH Dissector by Touch of Life Technologies, and Anatomy TV: 3d Head & Neck Anatomy (for Dentistry) where software is available online to UF students, faculty and staff even

off-campus through the proxy server and VPN software. There are two conference rooms, which include R and Stata statistical software packages as well as Rhinoceros 3-D computer graphics and design and Google SketchUp 3-D modeling software. HSCL offers 2-D scanners on each of its three floors and two 3-D printers and a 3-D scanner on the first floor.

Library services include reference assistance, course-integrated library instruction, circulation, document delivery, interlibrary loan, photocopy services, electronic and print course reserves, lockers and study rooms. Computer access to electronic databases, journals, and catalogs is available both onsite and remotely to authorized users. Since 1999, the HSC Libraries have operated a Liaison Librarian program that assigns one or more dedicated librarians to each HSC College or Department to facilitate the work of academic faculty, researchers, clinicians, and students.

Due to the multidisciplinary nature of Healthcare Education and Artificial intelligence, a listing of highly ranked journals for the specific area does not currently exist. However, Clarivate's Journal Citation Reports curates a list of the highest-ranked journals in the categories of *Education, Scientific Disciplines and Healthcare*. A journal search of the Smathers Libraries provides evidence that the institution currently subscribes to more than 5000 journals associated with the keyword education. Within that broad category, 121 journals associated with the keyword medical education, 36 associated with nursing education, five associated with pharmacy, and 16 journals associated with health professions education. Additionally, the library subscribes to two artificial intelligence journals, 160 informatics related journals, and eight computer science education journals.

B. Discuss any additional library resources that are needed to implement and/or sustain the program through Year 5. Describe how those costs are reflected in Appendix A – Table 3A or 3B.

Not applicable to this program because no additional library resources are needed to implement or sustain the proposed program.

Listed below are a sampling of key education and health professions education and analytics journals currently available through the Smathers Libraries.

- 1 **American Educational Research Journal**
Print: 1964-present
Online: 1999-present
American Journal of Distance
- 2 **Education**
Print:1987-present
Online: 1987-present
- 3 **British Journal of Educational Technology**
Print: 1971-2007
Online: 1996-present
Education and Information
- 4 **Technologies**
Online: 1997-present
- 5 **Educational Technology & Society**
Online: 1998-present
- 6 **Information, Communication, and Society**
Online: 1999-1 yr ago

- 7 **Innovations in Education and Teaching International**
Online: 2001-present
- Instructional Science: An International Journal of Learning and**
- 8 **Cognition**
Print: 1983-2003
Online: 1997-present
- 9 **International Journal of Educational Technology**
Online: 1999-2002
- 10 **International Journal of Instructional Media**
Print:1985-2008
Online: 1996-present
- 11 **International Journal for the Scholarship of Teaching and Learning**
Online: 2007-present
- 12 **Journal of Distance Education**
Online: 1986-present
- 13 **Journal of Educational Media**
Online: 1996-2004
- Journal of Interactive Learning**
- 14 **Research**
Online: 2000-2006
- 16 **Journal of Research on Technology in Education**
Print: 2001-2009
Online: 2001-present
- 16 **Journal of Technology, Learning and Assessment (JTLA)**
Online: 2002-present
- 17 **Learning Environments Research**
Online: 1998-present
- 18 **Open Learning**
Print: 1987-present
Online: 1997-present
- 19 **T.H.E. (Technological Horizons in Education) Journal**
Online: 1988-present
- 20 **Academic Medicine**
Online, 2000-present
Print
- 21 **Advances in Health Science Education**
Online; 1997-present
- 22 **The Clinical Teacher**
Online; 2004-present
- 23 **The Clinical Teacher**
Print
- 24 **Education for Health: Change in Training and Practice**
Online; 2000-present
- 25 **Medical Education Online**
Open Source Journal
- 26 **Medical Education**
Online; 1997-present
Print
- 27 **Medical Teacher**

- Online; 1990-1 yr ago
Print
- 28 **Journal of Interprofessional Care**
Online; 1986-present
- 29 **Journal of Interprofessional Education and Practice**
Online; 2015-present
- 30 **Computers in Human Behavior**
Online; 1985-present
- 31 **Computers and Education**
Online; 1976-present
- 31 **Journal of Education Datamining**
Online; 2009-present

Emerging Journals

The library currently subscribes to two emerging journals regarding artificial intelligence in education.

- 1 **Journal of Learning Analytics**
Online: 2014-present
- 2 **Learning Health Systems**
Online: 2017-present

C. Describe any specialized equipment and space currently available to implement and/or sustain the proposed program through Year 5.

The curriculum will be delivered in online. It is not anticipated that additional space will be required to successfully facilitate the program.

D. Describe any additional specialized equipment or space that will be needed to implement and/or sustain the proposed program through Year 5. Include any projected Instruction and Research (I&R) costs of additional space in Appendix A – Table 3A or 3B. Costs for new construction should be provided in response to Section X.E. below.

Not applicable to this program because no new I&R costs are needed to implement or sustain the program through Year 5

E. If a new capital expenditure for instructional or research space is required, indicate where this item appears on the university's fixed capital outlay priority list. Appendix A – Table 3A or 3B includes only I&R costs. If non-I&R costs, such as indirect costs affecting libraries and student services, are expected to increase as a result of the program, describe and estimate those expenses in narrative form below. It is expected that high enrollment programs, in particular, would necessitate increased costs in non-I&R activities.

Not applicable to this program because no new capital expenditures are

needed to implement or sustain the program through Year 5.

The curriculum will be delivered online. It is not anticipated that additional space will be required to successfully facilitate the program.

F. Describe any additional special categories of resources needed to operate the proposed program through Year 5, such as access to proprietary research facilities, specialized services, or extended travel, and explain how those projected costs of special resources are reflected in Appendix A – Table 3A or 3B.

Not applicable to this program because no additional special categories of resources are needed to implement or sustain the program through Year 5.

Not applicable, no additional special categories of resources are needed to implement the program.

G. Describe fellowships, scholarships, and graduate assistantships to be allocated to the proposed program through Year 5, and explain how those are reflected in Appendix A – Table 3A or 3B.

Not applicable to this program because no fellowships, scholarships and/or graduate assistantships will be allocated to the proposed program through Year 5.

Not applicable, no internship or practical experiences are associated with the program.

IX. Required Appendices

The appendices listed in tables 1 & 2 below are required for all proposed degree programs except where specifically noted. Institutions should check the appropriate box to indicate if a particular appendix is included to ensure all program-specific requirements are met. Institutions may provide additional appendices to supplement the information provided in the proposal and list them in Table 4 below.

Table 1. Required Appendices by Degree Level

Appendix	Appendix Title	Supplemental Instructions	Included? Yes/No	Required for Degree Program Level		
				Bachelors	Masters/ Specialist	Doctoral/ Professional
A	Tables 1-4			X	X	X
B	Consultant's Report and Institutional Response					X
C	Academic Learning Compacts	Include a copy of the approved or proposed Academic Learning Compacts for the program		X		
D	Letters of Support or MOU from Other Academic Units	Required only for programs offered in collaboration with multiple academic units within the institution		X	X	X
E	Faculty Curriculum Vitae			X	X	X
F	Common Prerequisite Request Form	This form should also be emailed directly to the BOG Director of Articulation prior to submitting the program proposal to the Board office for review.		X		
G	Request for Exemption to the 120 Credit Hour Requirement	Required only for baccalaureate degree programs seeking approval to exceed the 120 credit hour requirement		X		
H	Request for Limited Access Status	Required only for baccalaureate degree programs seeking approval for limited access status		X		

Table 2. Additional Appendices

Appendix	Appendix Title	Description
A	MS HCE AI Appendix A tables	Excel spreadsheet of tables provided

Appendix A (see attached MS HCE AI Tables.xls file):

Implementation Timeframe	H C	FTE	E&G Cost per FTE	E&G Funds	Contract & Grants Funds	Auxiliary/ Philanthropy Funds	Total Cost
Year 1	20	480	\$0	\$0	\$136,040	\$0	\$136,040
Year 2	30	720					
Year 3	40	960					
Year 4	55	1320					
Year 5	60	1440	\$0	\$0	\$504,259	\$0	\$504,259

Table 1: Enrollment and cost

Faculty Name	Highest Degree Earned	Academic Discipline	Contract Status	Contract Length (Mos)	Effort
Colleen Kalynych	EdD	Education & Educational Leadership	MYA	12	.1 FTE
Phuong Huynh	PhD	Educational Technology	MYA	12	.1 FTE
François Modave	PhD	Computer Science	MYA	12	.1 FTE
Jason Byrd	PhD	Entomology	MYA	12	.05 FTE
Rosemarie Fernandez	MD	Medicine	MYA	12	.05 FTE

Table 2: Faculty members involved

APPENDIX A
TABLE 3A
ENROLLMENT AND GROWTH
PROJECTED COSTS AND FUNDING SOURCES

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
Institutions should not edit the categories or budget lines in the table below. This table is specific to state-funded (E&G) programs, and institutions are expected to explain all costs and funding sources in Section VII.A. of the proposal. Detailed definitions for each are located at the bottom of the table.																
Budget Line Item	Reallocated Base* (E&G) Year 1	Enrollment Growth (E&G) Year 1	New Recurring (E&G) Year 1	New Non-Recurring (E&G) Year 1	Contracts & Grants (C&G) Year 1	Philanthropy/ Endowments Year 1	Other Funding Year 1 - Please Explain in Section VII.A. of the Proposal	Subtotal Year 1	Continuing Base** (E&G) Year 5	New Enrollment Growth (E&G) Year 5	Other*** (E&G) Year 5	Contracts & Grants (C&G) Year 5	Philanthropy/ Endowments Year 5	Other Funding Year 5 - Please Explain in Section VII.A. of the Proposal		
Salaries and Benefits (Faculty)	0	0	0	0	55,900	0	0	\$55,900	0	0	0	74,750	0	0		
Salaries and Benefits (A&P and USPS)	0	0	0	0	0	0	0	\$0	0	0	0	0	0	0		
OPS (including assistantships & fellowships)	0	0	0	0	0	0	0	\$0	0	0	0	0	0	0		
Programmatic Expenses****	0	0	0	0	80,140	0	0	\$80,140	0	0	0	429,509	0	0		
Total Costs	\$0	\$0	\$0	\$0	\$136,040	\$0	\$0	\$136,040	\$0	\$0	\$0	\$504,259	\$0	\$0		
*Identify reallocation sources in Table 4.																
**Includes recurring E&G funded costs ("reallocated base," "enrollment growth," and "new recurring") from Years 1-4 that continue into Year 5.																
***Identify if non-recurring.																
****Include library costs, expenses, OCO, special categories, etc.																
Faculty and Staff Summary												Calculated Cost per Student FTE				
Total Positions	Year 1	Year 5												Year 1	Year 5	
Faculty (person-years)	0.35	0.35												Total E&G Funding	\$0	\$0
FTE (A&P and USPS)	0.35	0.35												Annual Student FTE	480	1440
												E&G Cost per FTE	0	0		

Table 3A: Budget and projections

Table 3 Column Explanations		
Reallocated Base* (E&G)	1	E&G funds that are already available in the university's budget and will be reallocated to support the new program. Please include these funds in the Table 4 – Anticipated reallocation of E&G funds and indicate their source.
Enrollment Growth (E&G)	2	Additional E&G funds allocated from the tuition and fees trust fund contingent on enrollment increases.
New Recurring (E&G)	3	Recurring funds appropriated by the Legislature to support implementation of the program.
New Non-Recurring (E&G)	4	Non-recurring funds appropriated by the Legislature to support implementation of the program. Please provide an explanation of the source of these funds in the budget section (section VII.A.) of the proposal. These funds can include initial investments, such as infrastructure.
Contracts & Grants (C&G)	5	Contracts and grants funding available for the program.
Philanthropy Endowments	6	Funds provided through the foundation or other Direct Support Organizations (DSO) to support the program.
Continuing Base** (E&G)	7	Includes the sum of columns 1, 2, and 3 over time.
New Enrollment Growth (E&G)	8	See explanation provided for column 2.
Other*** (E&G)	9	These are specific funds provided by the Legislature to support implementation of the program.
Contracts & Grants (C&G)	10	See explanation provided for column 5.
Philanthropy Endowments	11	See explanation provided for column 6.
Other Funding	12	Any funding sources not already covered in any other column of the table. Please provide an explanation for any funds listed in these columns in the narrative for Section VII.A. of the proposal.

Table 3A: Explanations



College of Education
Office of the Dean

2023 Norman Hall
PO Box 117040
Gainesville, FL 32611
352-273-4130

December 6, 2022

State University System of Florida
200 West College Avenue
Tallahassee, FL 32301

To the Board of Governors, State University System of Florida,

I am writing to express the College of Education's strong support for the UF College of Medicine's request to offer a new degree proposal for an online, asynchronous master's degree in Healthcare Education and Artificial Intelligence (MHE-AI).

The UF College of Education will support this new degree program by providing access to existing, scheduled, online courses. We anticipate the MHE-AI program will enhance enrollment for these courses by increasing professional diversity in the classroom environment. Additionally, the College of Education will work in consultation with the College of Medicine to review and prioritize courses currently offered in a traditional face-to-face format for conversion to an asynchronous online format. It is anticipated that current College of Education courses included in the proposed plan of study will be able to absorb MHE-AI learners without impacting the quality or rigor of the content. The College does not anticipate a need for additional FTE. Nonetheless, the teaching assignments of existing faculty will be shifted to reflect the anticipated additional teaching responsibilities.

The UF Colleges of Education and Medicine have a strong history of scholarly collaboration as well as collaborations in the classroom. Since 2020, the Colleges have jointly collaborated on an innovative Anatomical Sciences Education graduate degree programs that serve as exemplars for intra-institutional educational partnerships at the University of Florida. The MHE-AI program represents a progression in this partnership.

Sincerely,

A handwritten signature in blue ink that reads "Glenn E. Good".

Glenn E. Good, Ph.D.
Dean and Professor

Appendix E: Curriculum Vitae

Dr. François Modave

Professor, Department of Anesthesiology
College of Medicine, University of Florida

[c: \(915\) 238-2416](tel:(915)238-2416)

Email: fmodave@anest.ufl.edu

1. Professional Experience

- August 2022 – current: Professor of Artificial Intelligence, Department of Anesthesiology, College of Medicine, University of Florida
- Jan 2022 – July 2022: Professor, Department of Biostatistics and Data Science, School of Public Health, University of Texas Health Science Center at Houston, El Paso Regional Campus, and Center of Community Health Impact. Adjunct Professor, School of Biomedical Informatics, University of Texas Health Science Center at Houston
- 2019 – 2021: Associate professor, Department of Health Outcomes and Biomedical Informatics; Director of Education; Director of Artificial Intelligence and Decision-Making, College of Medicine, University of Florida
- 2018 – 2019: Director, Center for Health Outcomes and Informatics Research (\$25M endowment budget); Associate Provost; Associate professor (tenure upon hire); Founding Chair, Department of Health Informatics and Data Science, Parkinson School of Health Science and Public Health, Loyola University Chicago
- 2015 – 2018: Associate professor, Founder and Director of the UF Health Cancer Center eHealth Core. Department of Health Outcomes and Biomedical Informatics, University of Florida.
- 2014 – 2015: Department Chair, Associate professor, department of computer science, Jackson State University.
- 2010 – 2013: Associate professor, Family and Community Medicine, Biomedical Sciences, Adjunct Faculty in Pediatrics (Research co-director of the residency program) Texas Tech University Health Sciences Center, El Paso Campus.
- 2009 – 2010: Associate professor, Computer Science Department, Central Washington University.
- 2002 – 2009: Assistant professor, Computer Science Department, UTEP.
- 2001 – 2002: Visiting professor, Computer Science Department, The University of Texas at El Paso (UTEP).
- 1999 – 2001: Research Fellow and Lecturer, School of Information Technology, Griffith University, Gold Coast Campus, Queensland, Australia.

2. Education

- 1995 – 1999: PhD in Computer Science. Thomson-CSF Corporate Research Laboratories / University Toulouse III / INP-ENSEEIH, France.
- 1993 – 1994: Master of Science in Mathematics Applied to Engineering. University of Paris IX Dauphine, France.
- 1991 – 1993: Bachelor of Science in Mathematics and Computer Science. University of Paris IX Dauphine, France.

3. Research Foci and Interests

- Biomedical informatics, artificial intelligence, machine learning, decision science, and applications to health outcomes:
 - Development of informatics solutions for informed and shared decision-making

- AI-enhanced – mobile health and integration with clinical practice
- AI for Quality Improvement

4. Grants and Contracts

I have served as PI/MPI/Co-PI on extramural grants including the Agency for Healthcare Research and Quality (AHRQ), National Cancer Institute & National Center for Advancing Translational Sciences (NIH), National Aeronautics and Space Administration (NASA), National Science Foundation (NSF), Department of Defense (DoD), UFHealth Cancer Center and IBM. I have also served as the site-PI on extramural grants totaling over \$40M from the NSF and NIH with over \$5M assignable to my site.

4.1 Current Support

- Title: Development of a multi-level Artificial Intelligence Course for the Clinical Community
Agency: UF College of Medicine Dean's Office
Effort: 20%
Award Period: 01/16/2022 – 12/31/2022
Role: PI (MPI: Giordano, Modave, Tighe)
Goal: this project focuses on the development of a fully online and asynchronous AI course geared towards the clinical community, and to train clinicians to integrate AI methodologies in research and quality improvement at the point of care.
- Title: Development and Initial Testing of a Multi-Component Breath Alcohol-Focused Intervention for Young Adults
Agency: NIAAA R34
Award: TBD / NOA issued 3/11/2022
Effort: 8%
Award Period: 09/01/2022 – 08/31/2025
Role: Co-I (Robert Leeman, UF, PI)
Goal: we will pilot test a multi-component intervention to limit drinking in young adults using mHealth.
- Title: Telehealth Outcomes: Social Vulnerabilities and Chronic Conditions
Agency: AHRQ (1 R01 HS028283-01)
Award: \$983,138
Effort: 10%
Award Period: 12/01/2020 – 11/30/2022
Role: PI (MPI: Shenkman, Modave, Carrasquillo)
Goal: the goal of this project is to assess the impact of the natural experiment of transitioning in and out of telehealth care delivery, during the COVID-19 pandemic, on access to care, disease control and use of emergency room, for patients with hypertension and/or diabetes, with one or more social vulnerabilities.

5. Courses developed and taught

- Artificial Intelligence in Medicine (for clinicians)
- Clinical data science
- Translational bioinformatics
- Clinical decision support systems
- Introduction to biomedical informatics
- Security and privacy of clinical data

6. Service

6.1 Grant Panels, Journal and Conference Review

- Panelist National Science Foundation
- NCI R21-R03 Special emphasis panelist (2014 – 2018)
- NIMHD R01 – Information Technology for Minority Health study section (2019 – current)
- National Science Foundation panelist (2005 – current)
- Editorial board BMC Medical Informatics and Decision Making
- Editorial board Journal of Medical Internet Research – Cancer
- Journal reviewer for:
 - Journal of American Medical Informatics Association
 - American Journal of Public Health
 - Journal of Medical Internet Research
 - Preventive Medicine
 - Medical Decision-Making
 - Journal of Biomedical Informatics
 - Sport
 - Exercise and Performance Psychology
 - Nature Digital Health
 - Nature Research
 - International Journal of Obesity
 - Obesity
 - PLOS One
- Conference journal reviewer for
 - Medical Decision-Making Conference
 - North American Fuzzy Information Processing Society Conference
 - Fuzz-IEEE Conference
 - Information Processing and Management of Uncertainty Conference

6.2 Committees

University of Florida

- Faculty senate representative, College of Medicine, for the Department of Health Outcomes and Biomedical Informatics (Spring 2015 – Fall 2018)
- Director of biomedical informatics education (Fall 2015 – Fall 2018)
- Member, Graduate Studies Committee, Health Sciences
- Clinical and Translational Science Award Executive Advisory Board member
- Reviewer Clinical and Translational Science Award pilot RFA
- Reviewer UF Informatics Institute pilot RFA

Loyola University Chicago

- Chair, Curriculum Committee, Parkinson School of Health Sciences and Public Health
- Chair, Founding Dean Parkinson School of Health Sciences and Public Health Search Committee (led to the recruitment of the founding dean of the Parkinson School of Health Sciences and Public Health)
- Chair Health EQ Initiative Committee. I oversee a fund of \$300,000 to be allocated towards multidisciplinary awards designed to reduce health inequities in the Chicago area
- Reviewer CHOIR pilot RFA
- Reviewer Health EQ RFA

7. Publications

7.1 Journal Articles (peer-reviewed)

1. Salloum, R.G., Bilello, L., Bian, J. Modave, F. *et al.* Study protocol for a type III hybrid effectiveness-implementation trial to evaluate scaling interoperable clinical decision support for patient-centered chronic pain management in primary care. *Implementation Sci* 17, 44 (2022). <https://doi.org/10.1186/s13012-022-01217-4>
2. Melissa J. Vilaro, Danyell S. Wilson-Howard, Jordan M. Neil, Fatemeh Tavassoli, Mohan S. Zalake, Benjamin C. Lok, François P. Modave, Thomas J. George, Folakemi T. Odedina, Peter J. Carek, Aubrey M. Mys & Janice L. Krieger A Subjective Culture Approach to Cancer Prevention: Rural Black and White Adults' Perceptions of Using Virtual Health Assistants to Promote Colorectal Cancer Screening, *Health Communication*, 37:9, (2022) 1123-1134, DOI: [10.1080/10410236.2021.1910166](https://doi.org/10.1080/10410236.2021.1910166)
3. King LS, Aguiar M, Chiorean A, Dumitriu A, Mistry P, Modave F, Montmerle M, Pavlick P, Weinreb N, Wilson A. Project Searchlight Gaucher study design: Real-world evaluation and validation of a rare disease algorithm to identify persons at risk of Gaucher disease using data from electronic health records in the United States. *Molecular Genetics and Metabolism*. 2022 Feb 1;135(2):S114.
4. Cooks, E., Duke, K., Neil, J., Vilaro, M., Wilson-Howard, D., Modave, F., ... Krieger, J. Telehealth and racial disparities in colorectal cancer screening: A pilot study of how virtual clinician characteristics influence screening intentions. *Journal of Clinical and Translational Science*, 6(1), E48. (2022) doi:10.1017/cts.2022.386
5. Wilson-Howard D, Vilaro MJ, Neil JM, Cooks EJ, Griffin LN, Ashley TT, Tavassoli F, Zalake MS, Lok BC, Odedina FT, Modave F, Carek PJ, George TJ, Krieger JL. Development of a Credible Virtual Clinician Promoting Colorectal Cancer Screening via Telehealth Apps for and by Black Men: Qualitative Study. *JMIR Form Res* 2021;5(12):e28709
6. Markossian T, Boyda J, Taylor J, Etingen B, Modave F, Price R, Kramer H. A Mobile App to Support Self-management of Chronic Kidney Disease: Development Study. *JMIR Hum Factors* 2021;8(4):e29197, <https://humanfactors.jmir.org/2021/4/e29197/>; DOI: 10.2196/29197
7. Lee, AM, Huo, T, Miller, D, Modave, F. et al. The effects of experimentally manipulated social status and subjective social status on physical activity among Hispanic adolescents: An RCT. *Pediatric Obesity*. 2021;e12877. doi:[10.1111/ijpo.12877](https://doi.org/10.1111/ijpo.12877)
8. Lee, A., Gurka, M., Madem, S., Lazo, C., Thompson, L., Fedele, D., Pavela, G., Modave, F. and Cardel, M., 2021, December. Factors Associated with Subjective Social Status in American Adolescents. In *OBESITY* (Vol. 29, pp. 13-14). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
9. Newsome, F., Lee, A., Madem, S., Thompson, L., Szurek, S., Gurka, M., Fedele, D., Pavela, G., Modave, F. and Cardel, M., 2021, December. How I Define My Subjective Social Status: A Qualitative Study among Adolescents. In *OBESITY* (Vol. 29, pp. 113-113). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.
10. Forrest, C.B., Xu, H., Thomas, L.E. et al. Impact of the Early Phase of the COVID-19 Pandemic on US HForrest, C.B., Xu, H., Thomas, L.E. et al. Impact of the ealthcare Workers: Results from the HERO Registry. *J GEN INTERN MED* (2021). <https://doi.org/10.1007/s11606-020-06529-z>
11. Vilaro, M.J., Wilson-Howard, D.S., Zalake, M.S. Modave, F. *et al.* Key changes to improve social presence of a virtual health assistant promoting colorectal cancer screening informed by a technology acceptance model. *BMC Med Inform Decis Mak* 21, 196 (2021). <https://doi.org/10.1186/s12911-021-01549-z>
12. Dallery J, Stinson L, Bolivar H, Modave, F, Salloum RG, Mendoza Viramontes T, Rohilla P. mMotiv8: A smartphone-based contingency management intervention to promote smoking cessation. *J. of Applied Behavior Analysis*. 2020. <https://doi.org/10.1002/jaba.800>
13. Zalake, M., Tavassoli, F., Duke, K. George T, Modave, F, Neil J, Krieger J, Lok B. Internet-based tailored virtual human health intervention to promote colorectal cancer screening: design guidelines from two user studies. *J Multimodal User Interfaces* (2021). <https://doi.org/10.1007/s12193-020-00357-5>
14. Bruggeman BS, Vincent HK, Chi X, Filipp SL, Mercado R, Modave F, et al. Simple tests of cardiorespiratory fitness in a pediatric population. *PLoS ONE* 15(9): e0238863. 2020. <https://doi.org/10.1371/journal.pone.0238863>
15. McDonough, CW, Babcock, K, Chucuri, K, Crawford DC, Bian J, Modave F, Cooper-Dehoff RM, Hogan WR. Optimizing identification of resistant hypertension: Computable phenotype development and validation. *Pharmacoepidemiol Drug Saf*. 2020; 1– 9. <https://doi.org/10.1002/pds.5095>

16. Gullett JM, Chen Z, O'Shea A, Akbar M, Bian J, Rani A, Porges EC, Foster TC, Woods AJ, Modave F, Cohen RA. MicroRNA predicts cognitive performance in healthy older adults, *Neurobiology of Aging*, Volume 95, 2020, Pages 186-194, ISSN 0197-4580, <https://doi.org/10.1016/j.neurobiolaging.2020.07.023>.
17. Bunn C, Kulshrestha S, Boyda J, Balasubramanian, N, Birch S, Karabayir I, Baker M, Luchette F, Modave F, Akbilgic O. Application of machine learning to the prediction of postoperative sepsis after appendectomy. *Surgery*. 2020; <https://doi.org/10.1016/j.surg.2020.07.045>
18. Vilaro MJ, Wilson-Howard DS, Griffin LN, Tavassoli F, Zalake MS, Lok BC, Modave F, George TJ, Carek PJ, Krieger JL. Tailoring Virtual Human-Delivered Interventions: A Digital Intervention promoting Colorectal Cancer Screening for Black Women. *Psychooncology*. 2020;10.1002/pon.5538. doi:10.1002/pon.5538
19. Nelson TA, Anderson B, Bian J, Boyd AD, Burton SV, Davis K, Guo Y, Harris BA, Hynes K, Kochendorfer KM, Liebovitz D, Martin K, Modave F, Moses J, Soulakis ND, Weinbrenner D, White SH, Rothrock NE, Valenta AL, and Starren JB. Planning for patient-reported outcome implementation: Development of decision tools and practical experience across four clinics. *Journal of Clinical and Translational Science*, page 1 of 10. 2020. doi: 10.1017/cts.2020.37
20. Guo Y, Bian J, Modave F, Li Q, George TJ, Prospero M, Shenkman EA. Assessing the Effect of Data Integration on Predictive Ability of Cancer Survival Models. *Health Informatics Journal*. 2020 Jan 23:1460458218824692. doi: 10.1177/1460458218824692.
21. Bian J, Modave F. The rapid growth of intelligent systems in health and health care. *Health Informatics Journal*. 2020, Vol. 26(1) 5-7. DOI: 10.1177/146458219896899
22. Patel PM, Sweigert SE, Nelson M, Gupta G, Baker M, Modave, F, McVary K. PD29-07 Disparities in BPH progression: predictors of presentation to the emergency department in urinary retention. *Journal of Urology*, April 2020, Vol. 203(4). DOI:10.1097/JU.0000000000000893.07
23. Tighe P, Modave F, Horodyski M, Marsik M, Lipori G, Fillingim R, Hu H, Hagen J. Geospatial analyses of pain intensity and opioid unit doses prescribed on the day of discharge following orthopedic surgery. *Pain Medicine*. 2019, Dec 4. DOI: 10.1093/pm/pnz311
24. Fische JN, Bian J, Chen Z, Hu, H, Min J, Modave F, Prospero M. Prodromal clinical, demographic, and socio-ecological correlates of asthma in adults: a 10-year statewide big data multi-domain analysis. *Journal of Asthma*. 2019. DOI: 10.1080/02770903.2019.1642352
25. Afshar M, Dligach D, Joyce C, Brihat S, Valdez C, Zelisko S, Birch S, Boyda J, Xiaoyuan C, Price R, Modave F. Development and application of a high throughput natural language processing architecture to convert all clinical documents in a clinical data warehouse into standardized medical vocabularies. *J. Am Med Inform Assoc*. 2019 May 30. pii: ocz068. doi: 10.1093/jamia/ocz068
26. Griffin L, Lee D, Jaisle A, Carek P, George T, Laber E, Lok B, Modave F, Paskett E, Krieger J. Creating an mHealth App for Colorectal Cancer Screening: User-Centered Design Approach. *JMIR Hum Factors* 2019;6(2):e12700. DOI: [10.2196/12700](https://doi.org/10.2196/12700). PMID: [31066688](https://pubmed.ncbi.nlm.nih.gov/31066688/)
27. Lee AM, Chavez S, Bian J, Thompson LA, Gurka MJ, Williamson VG, Modave F. Efficacy and Effectiveness of Mobile Health Technologies for Facilitating Physical Activity in Adolescents: Scoping Review. *JMIR Mhealth Uhealth* 2019;7(2):e11847
28. Bruels CC, Li C, Mendoza T, Kahn J, Reddy HM, Estrella EA, Ghosh PS, Darras BT, Lidov HGW, Pacak CA, Kunkel LM, Modave F, Draper I, Kang PB. Identification of a Pathogenic Mutation in ATP2A1 via in Silico Analysis of Exome Data for Cryptic Aberrant Splice Sites. *Molecular Genetics & Genomic Medicine*. (2019): E552.
29. Prospero M, Min JS, Bian J, Modave F. Big data hurdles in precision medicine and precision public health. *BMC Medical Informatics and Decision Making* (2018) 18:139 <https://doi.org/10.1186/s12911-018-0719-2>
30. Guo Y, Bian J, Li Q, Leavitt T, Rosenberg EI, Buford TW, Smith MD, Vincent HK, Modave F. (2018) A 3-minute test of cardiorespiratory fitness for use in primary care clinics. *PLoS ONE* 13(7): e0201598. <https://doi.org/10.1371/journal.pone.0201598>
31. Lossio-Ventura JA, Hogan W, Modave F, Guo Y, He Z, Yang X, Zhang H, Bian J. OC-2-KB: integrating crowdsourcing into an obesity and cancer knowledge base curation system. *BMC Med Inform Decision Making* 2018 18 (Suppl 2) :55 <https://doi.org/10.1186/s12911-018-0635-5>

32. Zhang H, Guo Y, Li Q, George TJ, Shenkman E, Modave F, Bian J. An ontology-guided semantic data integration framework to support integrative data analysis of cancer survival. *BMC Med Inform Decision Making*. 2018 18 (Suppl 2) :41 <https://doi.org/10.1186/s12911-018-0634-4>
33. Bernier A, Fedele D, Guo Y, Chavez S, Smith MD, Warnick J, Lieberman L, Modave F. New-Onset Diabetes Educator to Educate Children and Their Caregivers About Diabetes at the Time of Diagnosis: Usability Study. *JMIR Diabetes* 2018;3(2):e10 DOI: [10.2196/diabetes.9202](https://doi.org/10.2196/diabetes.9202)
34. Chen H, Butler E, Guo Y, George T, Modave F, Gurka M, Bian J. Facilitation or Hindrance: Physicians' Perception on Best Practice Alerts (BPA) Usage in an Electronic Health Record System. *Health Commun* 2018 Feb 27:1-7. Doi: 1080/10410236.2018.1443263
35. Huo T, George Jr. T, Guo Y, Prospero M, Modave F, Bian J. Explore Care Pathways of Colorectal Cancer Patients with Social Network Analysis. *Studies in Health Technology and Informatics*. 245. 2018.
36. Huo T, Canepa R, Sura A, Modave F, Gong Y. Colorectal cancer stages transcriptome analysis. *PLoS ONE*. 2017 Nov; 12(11):e0188697.
37. Chavez S, Fedele D, Guo Y, Bernier A, Smith M, Warnick J, Modave F. Mobile Apps for the Management of Diabetes. *Diabetes Care* 2017 Aug; dc170853.
38. Bian J, Guo Y, Xie M, Parish AE, Wardlaw I, Brown R, Modave F, Zheng D, Perry TT. Exploring the Association Between Self-Reported Asthma Impact and Fitbit-Derived Sleep Quality and Physical Activity Measures in Adolescents. *JMIR Mhealth Uhealth* 2017;5(7):e105
39. Modave F, Guo Y, Gurka MJ, Parish A, Smith MD, Lee AM, Buford TW. Mobile Device Accuracy for Step Counting Across Age Groups. *JMIR Mhealth Uhealth*. 2017 Jun 28;5(6): e88. doi: 10.2196/mhealth.7870.
40. Lucero RJ, Frimpong JA, Fehlberg EA, Bjarnadottir RI, Weaver MT, Cook C, Modave F, Rathore MH, Morano JP, Ibanez G, Cook RL. The Relationship Between Individual Characteristics and Interest in Using a Mobile Phone App for HIV Self-Management: Observational Cohort Study of People Living With HIV. *JMIR Mhealth Uhealth* 2017;5(7):e100
41. Guo Y, Bian J, Leavitt T, Vincent HK, Vander Zalm L, Teurlings TL, Smith MD, Modave F. Assessing the Quality of Mobile Exercise Apps Based on the American College of Sports Medicine Guidelines: A Reliable and Valid Scoring Instrument. *JMIR*. 2017;19(3):e67. DOI: 10.2196/jmir.6976
42. Yuan J, Malin B, Modave F, Guo Y, Hogan W, Shenkman E, Bian J. Towards a Privacy Preserving Cohort Discovery Framework for Clinical Research Networks. Bian J, Yuan J, Malin B, Modave F, Guo Y, Hogan W, Shenkman E. *J. Biomed. Inform.* 2017 Feb;66:42-51. DOI: 10.1016/j.jbi.2016.12.008
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51. Modave F, Ceberio M, Magoc T. Using Preference Constraints to Solve Multi-criteria Decision Making Problems. *Journal of Reliable Computing*, Vol 15, pp218-229, Jul. 2011.
52. Modave F, Ceberio M, Magoc T, Wang X. Applications of Fuzzy Measures and Intervals in Finance. *Journal of Reliable Computing*, Vol 15, pp300-311, July 2011.
53. Magoc T, Wang X, Modave F. Application of Fuzzy Measures and Interval Computation to Financial Portfolio Selection. *International Journal of Intelligent Systems*, ed. Wiley, Vol 25, N.7, pp621-635, July 2010.
54. Miller III CC, Calder-Becker C, Modave F. Swimming-Induced Pulmonary Edema in Triathletes: A Population-Based Survey. *American Journal of Emergency Medicine*, Vol 28, N.8, pp941-916, 2010.
55. Kreinovich K, Modave F, Starks S, Xiang G. Towards real world applications: interval related talks at NAFIPS'05. *Journal of reliable computing*, Springer Science, vol. 12, n.1, pp73-77, February 2006.
56. De Korvin A, Kleyale R, Modave F. Paradigms for decision-making under increasing levels of uncertainty. *Int. Journal of Pure and Applied Mathematics*. 21, No.4, 419-430, 2005.
57. Dubois D, Grabisch M, Modave F, Prade H. Relating decision under uncertainty and multicriteria decision making models. *International Journal of Intelligent Systems*, vol 15(10), pp 967-979. ed. Wiley, 2000.

7.2 Books, Book Chapters, Monographs (peer-reviewed)

58. Modave F, Magoc T, Kreinovich V, Ceberio M. Computational Methods for Investment Portfolio: The Use of Fuzzy Measures and Constraint Programming for Risk Management. *Foundations on Computational Intelligence*, ed. A. Hassanien and A. Abraham, Springer-Verlag, Germany; pp133-173; May 2009.
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7.3 Conference Articles (peer-reviewed)

63. Bin Rafiq R, Modave F, Guha S, Albert MV. Validation Methods to Promote Real-world Applicability of Machine Learning in Medicine. DMIP '20: 2020 3rd Int. Conf. on Digital Medicine and Image Processing. Nov 2020: 13-19. <https://doi.org/10.1145/3441369.3441372>
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65. Griffin L, Jaisle A, Carek PK, George Jr TJ, Kreiger J, Laber E, Lok B Odedina FG, Modave F. Applying User-Centered Design Principles to the Development of a Colon Cancer Screening mHealth App. Proc of 68th Annual Int. Communication Assoc. 2018 May.

66. Lossio-Ventura JA, Hogan WR, Modave F, Guo Y, He Z, Hics A, Bian J. OC-2-KB: A Software Pipeline to Build and Evidence-Based Obesity and Cancer Knowledge Base. IEEE Int. Conf. on Bioinformatics and Biomedicine, Kansas City, MO, November 13-16, 2017.
67. Lossio-Ventura JA, Hogan WR, Modave F, Hicks A, Hanna J, Guo Y, He Z, Bian J Towards an Obesity-Cancer Knowledge Base: Biomedical Entity Identification and Relation Detection. IEEE International Conference on Bioinformatics and Biomedicine, Shenzhen, China, December 15-18, 2016.
68. Zayas CE, He Z, Yuan J, Maldonado-Molina MM, Hogan WR, Modave F, Guo Y, Bian J. Examining healthcare utilization patterns of elderly and middle-aged adults in the US. 2016. 29th FLAIRS.
69. Freudenthal E, Magoc T, Modave F. Computation for Science and Engineering. Proceeding of IEEE-Educon, Madrid, Spain, April 14-16, 2010.
70. Magoc T, Modave F. Optimization of the Choquet Integral using Genetic Algorithms. 2nd CoProd NSF-funded workshop, El Paso, Texas, Nov 9-10, 2009.
71. Magoc T, Modave F. Using Preference Constraints to Solve Multi-criteria Decision Making Problems. 2nd CoProd NSF-funded workshop, El Paso, Texas, Nov 9-10, 2009.
72. Modave F, Ceberio M, Kreinovich K. Choquet integrals and OWA criteria as a natural (and optimal) next step after linear aggregation: a new general justification. 7th Mexican International Conference on Artificial Intelligence, Mexico City, Mexico, Oct 27-31, 2008.
73. Magoc T, Ceberio M, Modave F. Using preference constraints to solve multi-criteria decision making problems. International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations (SCAN), El Paso, Texas, Sept. 29-Oct. 3, 2008.
74. Magoc T, Wang X, Ceberio M, Modave F. Applications of constraints and fuzzy measures in finance. International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations (SCAN), El Paso, Texas, Sept. 29-Oct. 3, 2008.
75. Esteban JE, Modave F, Kosheleva O. Selecting the most representative sample is NP-hard: need for expert (fuzzy) knowledge. IEEE World Congress on Computational Intelligence, International Conference on Fuzzy Systems, Hong Kong, China, June 1-6, 2008.
76. Kosheleva O, Modave F. Asymmetric paternalism: description of the phenomenon, explanation based on decision under uncertainty, and possible applications to education. North American Fuzzy Information Processing Society (NAFIPS'08) Conference, New York, NY, May 19-22, 2008.
77. Modave F, Magoc T, Ceberio M. Interval-based multi-criteria decision making: strategies to order intervals. NAFIPS Conference, New York, NY, May 19-22, 2008.
78. Cheu RL, Kreinovich V, Modave F, Xiang G, Magoc T. How to estimate, take into account and improve travel time reliability in transportation networks. 3rd Int. Workshop on Reliable Engineering Computing, NSF Workshop on Imprecise Probability in Engineering Analysis and Design, Savannah, GA, Feb 20-22, 2008.
79. Huynh VN, Nakamori Y, Modave F. On the probability of making a given decision: a theoretically justified transition from interval to fuzzy uncertainty. NAFIPS Conference, pp532-536, San Diego, Ca, June 24-27, 2007.
80. Alo R, Modave F, Kreinovich V, Herrera D, Wang X. Bilinear models from system approach justified for classification with potential applications to bioinformatics. Proc. of the 2006 Int. Conference on Fuzzy Sets and Soft Computing in Economics and Finance, St-Petersburg, Russia, June 28-30, 2006.
81. Modave F, Ceberio M, Wang X, Garay O, Ramirez R, Tejada R. Comparing attacks: an approach based on interval computation and fuzzy integration. Fuzz-IEEE'05.
82. Boehm J, Debroux P, Modave F, Kreinovich V, Xiang G, Beck J, Tupelly K, Kandathy R, Longpré L, Villaverde K. Using 1-D radar observations to detect a space explosion core among the explosion fragments: sequential and distributed algorithms. 1-D Radar IEEE workshop, Santa Fe, NM, Aug. 2005.
83. Campos C, Modave F, Roach S. The AKS algorithm in ACL2. 5th International Conference on Intelligent Technologies (InTech'04), Houston, TX, Dec. 2004.

84. Modave F, Ceberio M. An interval-valued 2-additive Choquet integral for multicriteria decision making. 10th Conf. on Information Processing Management of Uncertainty in Knowledge-based Systems (IPMU'04), Perugia, Italy, July 2004.
85. Ceberio M, Modave F. Interval-based multicriteria decision making. 8th International Symposium on AI and Mathematics, Fort Lauderdale, FL, Jan. 2004.
86. Modave F, Iourinski D. Qualitative multicriteria decision making based on the Sugeno integral. NAFIPS Conference, Chicago, IL, July 2003.
87. Campos C, Kreinovich V, Modave F, Starks S. The use of fuzzy measures as a data fusion tool in geographic information systems. NAFIPS Conference, Chicago, IL, July 2003.
88. Modave F, Alo R, de Korvin A. Decision making for robust resilient systems. 36th Hawaii International Conference on System Sciences (HICSS'03), Hawaii, Jan 6-9, 2003.
89. Modave F, Kreinovich V. Fuzzy measures and integrals as aggregation operators: solving the commensurability problem. NAFIPS Conference, New Orleans, LA, June 2002.
90. Alo R, de Korvin A, Modave F. Using fuzzy functions to select an optimal action in decision theory. NAFIPS Conference, New Orleans, LA, June 2002.
91. Modave F, Eklund P. A measurement theory perspective for multicriteria decision making, Fuzz-IEEE Conference, Melbourne, Australia, Dec. 2001.
92. Modave F, Tilley T. Web-based collaborative multicriteria decision making. 1st International Conference on Intelligent Technologies, Bangkok, Thailand, May 2001
93. Modave F, Grabisch M. Lotteries in a multicriteria decision making framework. 8th IPMU Conference, Madrid, Spain, July 2000.
94. Modave F, Grabisch M. Preference representation by the Choquet integral: the commensurability hypothesis. 7th IPMU Conference, Paris, France, July 1998.
95. Roussel D, Modave F. Application of fuzzy multicriteria classification to select the best robust parses of speech recognition hypotheses. Int. Workshop on Speech and Computer. St-Petersburg, Russia, June 1998.
96. Dubois D, Grabisch M, Modave F, Prade H. A Choquet integral representation in multicriteria decision making. AAAI Fall Symposium, Boston, Ma, Nov. 1997
97. Modave F, Grabisch M. Preferential independence and the Choquet integral. 8th International Conf. on the Foundations and Applications of Decision under Risk and Uncertainty, Mons Belgium, July 1997.
98. Modave F, Julien B. Possibilistic optimization. Proc. Of the bilateral workshop Canada-Japan on Intelligent Manufacturing and Process Design, Toronto, Canada, Dec. 1996.

7.4 Posters and Oral Presentations

99. Wilson-Howard D, Vilaro M, Griffin L, Travassoli F, Zalake M, Lok B, Modave F, Carek P, George T, Krieger J. Community engagement in the development of an m-health app utilizing a black male virtual health assistant (VHA) to promote colon cancer screening: an iterative study of credibility and likeability. AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved. June 2020. DOI:10.1158/1538-7755.DISP19-A041
100. Bunn C, Kulshrestha S, Balasubramanian N, Boyda J, Birch S, Karabayir I, Baker MS, Modave, F, Akbilgic O. The application of machine learning to the prediction of postoperative sepsis following appendectomy. Central Surgery Association, 77th Annual Meeting, June 4-6, 2020, Milwaukee, WI.
101. Karabayir I, Modave F, Cooper R, Akbilgic O. Boosting Convolutional Neural Networks for Atrial Fibrillation Detection, St Alberts Research Day, Loyola University Chicago, Maywood, IL, Oct 24, 2019.
102. Thomas S, De La Pena P, Mallik A, Modave F, Karabayir I, Okbilgic O, Serrone J. Clinical Predictors of Mechanical Thrombectomy in Acute Ischemic Stroke, St Alberts Research Day, Loyola University Chicago, Maywood, IL, Oct 24, 2019.
103. McDonough C, Chase P, Loiacono A, Waugh S, Modave F. SLCO1B1 rs 4149056 Phenome-Wide Association Study (PheWAS) with Survey Data from the Personal Genome Project. Clinical Pharmacology & Therapeutics 2018; 103: S16. (PI-003).

104. Shahin MH , Balasubramanian DK, Lima ET, Mansoor H, Schmidt E, Johnson JA, Modave F. Mining Electronic Health Records Data Unlocks Novel Insights about Antihypertensive Medication Use and the Risk of Incident Gout. *Clinical Pharmacology & Therapeutics* 2018; 103: S16. (PI-003)
105. Lee A, Guo Y, Bian J, Gurka M, Parish A, Smith M, Buford T, Modave F. Mobile Device Accuracy for Step Counting Across Age Groups. University of Florida College of Medicine Celebration of Research 2018; February 19, 2018.
106. Modave F, Data Science, Core Competencies, And Program Accreditation. Educational Panel, 6th Annual Big Data Symposium, Georgetown University; Oct 27-28 2017, Washington DC.
107. Modave F, Bian J, Cardel M, Mendoza T, Rosenberg E. DiaFit: An Integrated App for the Management of Diabetes and Obesity. 45th Annual Meeting of the North American Primary Care Research Group; November 17-21, 2017; Montréal, QC, Canada.
108. Huo T, George T, Guo Y, Prosperi M, Modave F, Bian J. Explore Care Pathways of Colorectal Cancer Patients with Social Network Analysis. *MedInfo* 2017.
109. Lieberman L, Bernier A, Modave F, Fedele D, Guo Y, Chavez SY, Smith MD, Warnick JL, Perry A. Using a New-Onset Diabetes E-book (NODE) program to teach children and their parents about diabetes at the time of diagnosis. American Diabetes Association 77th Scientific Sessions; June 9-13, 2017; San Diego, CA.
110. Modave F, Leavitt T, Kumar R, Bian J, Guo Y, Vincent HK. Relationship Between the Ruffier Test and Maximal Treadmill Testing in Healthy Adults. *Am. Coll. Sports. Med. Annual Meeting*. May 30-June 3, 2017. Denver, CO.
111. Modave F, Cardel M. Accuracy of the Myfitnesspal app for calorie expenditure when cycling. Obesity Week; October 31-November 4, 2016; New Orleans, LA.
112. Modave F, Bian J, Leavitt T, Bromwell J, Harris III C, Vincent H. Low Quality of Free Coaching Apps with Respect to the American college of Sports Medicine Guidelines: A Review of Current Mobile Apps. Institute for Child Health Policy Annual Research Day; April 18, 2015; Gainesville, FL, 2015.
113. Vasquez G, Modave F, Wright J, Islas A. Palpitations in an Elite Endurance Athlete. 23rd Annual Meeting of the American Medical Society for Sports Medicine; April 5-9, 2014; New Orleans, LA.
114. Modave F, Peñaranda E, Shokar NK, Nguyen N. Weight loss: Evaluating the Medical Quality Content of Online Searches. Oral presentation at the 41st Annual Meeting of the North American Primary Care Research Group Conference; November 9-13, 2013; Ottawa, Canada.
115. Modave F. Walking the Walk. The Benefits of Physical Activity. Invited Speaker at TTUHSC – Paul L. Foster, School of Medicine; April 6, 2013.
116. Modave F, Shokar NK. Non-Additive Measures as a Reliable and Robust Tool for Colorectal Cancer Screening Decision Support. 40th Annual Meeting of the North American Primary Care Research Group; December 1-4, 2012; New Orleans, LA.
117. Modave F, Shokar NK. Non-Additive Measures in Medical Decision Making. 34th North American Annual Meeting of the Medical Decision Making Society; October 17-20, 2012; Phoenix, AZ.

Jason H. Byrd, Ph.D.

Associate Professor, Pathology, Immunology, and Laboratory Medicine
Associate Director, Maples Center for Forensic Medicine
College of Medicine, University of Florida
4800 SW 35th Drive
Gainesville, Florida. 32608
(352) 294-4091
jhbyrd@ufl.edu

Education & Training

Ph.D. University of Florida, Gainesville, FL.	1995-1998
M.S. Entomology with Criminology and Law minor, University of Florida, Gainesville, FL.	1993-1995
B.S. in Agriculture (High Honors), University of Florida, Gainesville, FL	1990-1993

Academic, Administrative & Clinical Appointments

Professor Present Department of Pathology, Immunology, and Laboratory Medicine. University of Florida Gainesville, Florida	2021 -
Associate Professor 2014 - 2021 Department of Pathology, Immunology, and Laboratory Medicine University of Florida Gainesville, Florida	
Associate Director, Maples Center for Forensic Medicine Present Department of Pathology, Immunology, and Laboratory Medicine University of Florida Gainesville, Florida	2009 -
Affiliate Faculty Present Department of Small Animal Clinical Sciences College of Veterinary Medicine University of Florida	2009 -
Affiliate Faculty 2019-Present Department of Wildlife Ecology and Conservation University of Florida	
FEMORS Commander Present William R. Maples Center for Forensic Medicine Department of Pathology, Immunology, and Laboratory Medicine College of Medicine University of Florida	2013 -
Medical-Legal Investigator Present National Disaster Medical System Federal Emergency Management Agency Nov. 2005- Present	2005 –

Instructor
2005 - 2018
Honors Residential College
University of Florida

Research Programs & Services Director III
2009 - 2014
Department of Pathology, Immunology, and Laboratory Medicine
University of Florida
Gainesville, Florida

Assistant Professor of Forensic Science and Biology
2000 - 2002
Virginia Commonwealth University
Richmond, VA

Professional Education & Experience

Bureau Chief
2007 – 2009
Bureau of Methods Development and Biological Control
Department of Agriculture and Consumer Services
Florida Department of Agriculture and Consumer Services

Director of Operations and Chief Investigator
2002 – 2005
Office of the Medical Examiner, Florida Districts 7 and 24
Department of Public Protection, Volusia County
Daytona Beach, Florida

Certification and Licensure

Present
Diplomate, American Board of Forensic Entomology
Board Certified Forensic Entomologist

1998-

Honors and Awards

- Global Learning Institute. Internationalization of Wildlife Forensic Sciences University of Florida. 2021.
- Florida Department of Health. Exceptional Leadership Certificate. Pulse Nightclub Shooting. June 12, 2016.
- Department of Health and Human Services, National Disaster Medical System, Outstanding Team Member of the Year, Region IV. 2008
- Bermuda Police Service Commendation- Distinguished Service Award. 2007
- H. O. Lund Distinguished Speaker Award Recipient, University of Georgia, Athens 2004
- Criminology and Law Honor Society, Outstanding Alumnus Award, 2000
- University of Florida President's, Outstanding Graduate Student Award, 1998
- Frank A. Reinhart Scholarship for academic achievement, 1997
- Howe Memorial Scholarship recipient, 1996.
- Gamma Sigma Delta Honor Society of Agriculture, 1994
- Council of American Forensic Entomologists speaker award recipient, 1994
- B. S. awarded with High Honors, 1993

- Golden Key National Honor Society, 1993
- John Mulrennan Scholarship, Institute of Food and Agricultural Sciences, University of Florida, for academic excellence and community service, 1992

Research or Clinical Interests

Mass fatality management
Growth and development of insects of forensic importance
Veterinary and wildlife forensic sciences

Grants and Contracts

Current Grants

NOAA - Fisheries Protected Resources Program Office (PRO)
Prescott Grant - PRO00042218
A Multidisciplinary Approach to Marine Mammal Death Investigations Using Forensic Science
\$125,618
September 2022-August 2024
PI and Project Manager

Florida Department of Health
Florida Emergency Mortuary Operations Response System
J.H. Byrd
\$304,000
June 2022- July 2023

University of Florida International Center
Internationalization of Wildlife Forensic Sciences
J.H. Byrd
\$5,000.00
January 2021-June 2022
PI and Project Manager

Florida Department of Health
Florida Emergency Mortuary Operations Response System
J.H. Byrd
\$20,000
June 2021- July 2022

Florida Department of Health
Florida Emergency Mortuary Operations Response System
J.H. Byrd
\$30,000
June 2021- July 2022

Florida Fish and Wildlife Conservation Commission
Florida Fish and Wildlife Conservation Commission Forensic Sciences Laboratory
J.H. Byrd
\$404,035.00
December 2019 – June 2024
PI and project manager

Department of Homeland Security
Victim Information Center Training
J.H. Byrd
\$80,000.00
PI and Project Manager
July 2018-June 2020

Florida Department of Health

Florida Emergency Mortuary Operations Response System
\$296,000.00
July 2019 – June 2020
Project Manager

Contracts/Awards
American Society for the Prevention of Cruelty to Animals
ASPCA Forensic Sciences Program
\$75,000
December 2019-December 2020
UFF Gift Recipient and Project manager

PetSmart Charities
PetSmart Shelter Medicine Program
\$225,000
December 2018-December 2020
UFF Gift Recipient and Project manager

Chapin Fund
Dr. Ann Cavender
\$110,000
June 2014-Present
UFF Gift Recipient and Project Manager

Camo Fund
Dr. Betsy Coville
\$25,000
June 2015- Present
UFF Gift Recipient and Project Manager

Culpepper Fund
\$25,000
June 2015- Present
UFF Gift Recipient and Project Manager

Past
Central Florida Disaster Medical Coalition
Florida Emergency Mortuary Operations Response System
\$6,500
2017
PI and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$297,000.00
2016
UFF Gift Recipient and Project Manager

Florida Department of Health
Florida Emergency Operations Response System
\$296,000.00
July 2017 – June 2018
Project Manager

Florida Department of Health
Florida Emergency Operations Response System
\$296,000.00
July 2016 – June 2017

Project Manager
Florida Department of Health

Florida Emergency Operations Response System
\$296,000.00
July 2015 – June 2016
Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$349,000.00
2015
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$381,000.00
2014
UFF Gift Recipient and Project Manager

Project Manager
Florida Department of Health
Florida Emergency Operations Response System
\$296,000.00
July 2014 – June 2016
Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program - Externships
\$5,000.00
2014
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program - Scholarships
\$15,000.00
2014
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$375,000.00
2013
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program - Scholarships
\$9,000.00
2013
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program - Workshops
\$6,000.00
2013
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$375,000.00
2012
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
Page **54** of **175**

University of Florida Veterinary Forensic Sciences Program – IVFSA Support
\$3,000.00
2012
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
Molecular Markers for Postmortem Interval Determination
\$10,000.00
2012
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program - Workshops
\$6,000.00
2011
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program – IVFSA Support
\$3,000.00
2011
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$375,000.00
2011
UFF Gift Recipient and Project Manager

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program
\$150,000.00
2010
UFF Gift Recipient and Project Manager

*United States Department of Agriculture and the State of Florida
Control of the Red Imported Fire Ant #098312-0262-CA
\$287,500
2009
Project Manager*

*United States Department of Agriculture and the State of Florida
Control of the Cactus Moth #09-8312-0507-CA
\$200,000
2009
Project Manager*

*United States Department of Agriculture and the State of Florida
Control of the Tropical Soda Apple #09-8312-0463-CA
\$35,000
2009
Project Manager*

*United States Department of Agriculture and the State of Florida
Control of the Pink Hibiscus Mealybug #09-8312-0461-CA
\$165,000
2009
Project Manager*

The American Society for the Prevention of Cruelty to Animals
University of Florida Veterinary Forensic Sciences Program

\$150,000.00
2009
UFF Gift Recipient and Project Manager

National Institute of Justice
Investigation Protocols for Death in Natural Environments 2008-DN-BX-K213
NIJ-NC State Professional Training Podcast
\$464,079
2008
Co-PI

United States Department of Agriculture and the State of Florida
Control of the Pink Hibiscus Mealybug #09-8312-0461-CA
\$165,000
2008
Project Manager

United States Department of Agriculture and the State of Florida
Cactus Moth Sterile Insect Technique Release #09-8312-0507-CA
\$200,000
2007
Project Manager

National Institute of Justice
Assessing Error in PMI Prediction Using a Forensic Entomological Computer Model. 2000RBCX0002
\$156,170
2000
CO-PI

National Institute of Justice
Estimation of the Postmortem Interval from Entomological Evidence. 97LBVX0001
\$128,000
1998
CO-PI

Forensic Science Foundation
Identification Cards for the Insects of Primary Importance in the United States
\$25,000.00
1995
CO-PI

Professional Memberships

Current

- American Academy of Forensic Sciences – *Fellow* (2005 - Present)
- American Board of Forensic Entomology – Member (1998-Present) (*President 2020-2022*)
- Council of Forensic Science Educators – Member (2016 – Present), Higher Education Committee Chairperson, 2016-2017, Secretary 2017-2019, President-Elect, (2019-2022)
- Department of Homeland Security - *Founding Member* (2002-Present)
- Florida Association of Medical Examiners – *Associate Member* (2008-Present)
- Florida Division of the International Association for Identification - *Member* (1995 - Present)
- Florida State Emergency Response Team – *Member* (2007- Present)
- Harvard Associates in Police Science – Honorary Member (2014 - Present)
- Harvard Associates in Police Science – *Member* (2001- 2014)
- International Association for Identification – Member (2013-Present)

- International Veterinary Forensic Science Association – *Charter Member and Board of Directors* (2007- 2015), Secretary (2009-2010, 2016), Treasurer (2010-2012), President Elect (2013), President (2014), Immediate Past President (2015), President 2019.
- Society of Wildlife Forensic Sciences. Member. (2013-Present)
- North American Forensic Entomology Association – President (2016-2018) President-elect (2014-2016), Past-President (2009-2010), President (2008-09), *President-Elect* (2007-08), Current-member.

Past

- American Board of Forensic Entomology - *Diplomate and Chairperson* (2000-2004)
- American Board of Forensic Entomology – *Diplomate and Secretary* (2005-07), *Vice-Chair* (2007-09) Domestic Security Task Force, Central Florida (Region 5) Health Committee- *Member* (2003-2005)
- European Association of Forensic Entomologists – *Associate Member* (2007-2010)
- Emergency Communication Center, Advisory Committee- *Member* (2002-2005)
- Entomological Society of America – *Member* (1993-1998)
- Florida Agricultural Crimes Intelligence Unit – *Member* (1995 - 2009)
- Florida Homicide Investigators Association – *Member* (1995 - 2003)
- Florida Radiological Response Team – Member (2007 – 2005)
- Florida State Agricultural Response Team – *Member* (2007 – 2017)
- National Sheriff's Association. *Member*. 2016-2019.

Editorial Positions, Boards, & Peer-Review Services

Subject Matter Editor Journal of Medical Entomology Entomological Society of America	2015 - Present
Editorial Board Member Journal of Numerical Thanatochronometry Republic of South Africa	2020 - Present
Journal Reviewer Environmental Entomology Entomological Society of America	2018 - Present
Journal Reviewer Journal of Forensic and Legal Medicine Elsevier	2018 - Present
Journal Reviewer Forensic Science International Elsevier	2016 - Present
Journal Reviewer Journal of Forensic Radiology and Imaging Elsevier	2016 - Present
Journal Reviewer Journal of Applied Animal Welfare Science Taylor and Francis Group	2017 - Present
Journal Reviewer Medicine Science and the Law SAGE Journals	2018 - Present
National Research Foundation – South Africa South African Research Chairs Initiative Rhodes University	2018 - Present

Journal Reviewer
Arab Journal of Forensic Sciences and Forensic Medicine
Naif University Publishing House

2018 – Present

Journal Reviewer
Ecological Entomology
Royal Entomological Society

2019 - Present

Clinical Activities & Quality Improvement Initiatives

Clinical Service

Provide forensic analysis for law enforcement and legal investigators for entomological evidence.

Agencies served:

LAW ENFORCEMENT

Alachua County Sheriff's Office, Gainesville, FL
American Society for the Prevention of Cruelty to Animals, New York, NY.
Bay County Sheriff's Office, Panama City, FL
Bermuda Police Service, Bermuda
Bridgeport Police Department, Bridgeport, CT
Broward County Sheriff's Office, Fort Lauderdale, FL
Casselberry Police Department, Casselberry, FL.
Camden County Sheriff's Office, Camdenton, MO.
Cape Coral Police Department, Cape Coral, FL.
Charlotte County Sheriff's Office, Punta Gorda, FL
City-County Bureau of Investigation, Raleigh, NC
Clay County Sheriff's Office, Clay County, FL
Cheatham County Animal Control, Pegram, TN
Collier County Sheriff's Office, Naples, FL
Columbia County Sheriff's Office, Lake City, FL
Connecticut State Police
Connecticut Office of the Chief Medical Examiner
Conway County Animal Welfare Unit. Conway, AR
Dothan Police Department, Dothan, AL
Durham Police Department, Durham, NC.
Escambia County Sheriff's Office, Escambia County, FL
Federal Bureau of Investigation, Albuquerque, NM
Federal Bureau of Investigation, Wilmington, NC
Flagler County Sheriff's Office, Flagler Beach, FL
Florida Agricultural Police
Florida Department of Law Enforcement, Ft. Myers, FL
Florida Department of Law Enforcement, Gainesville, FL
Florida Department of Law Enforcement, Jacksonville, FL
Florida Department of Law Enforcement, Orlando, FL
Florida Department of Law Enforcement, Pensacola, FL
Florida Department of Law Enforcement, Tampa, FL
Florida State Attorney Office, Fourth Judicial District, Yulee, FL
Ft. Pierce Police Department, Ft. Pierce, FL
Ft. Lauderdale Police Department, Ft. Lauderdale, FL
Gainesville Police Department, Gainesville, FL
Gadsen County Sheriff's Office, Quincy, FL.
Georgia Bureau of Investigation, Atlanta, GA.
Greene County Office of the Medical Examiner. Springfield, MO.
Gwinnett County Animal Control, Gwinnett County, GA
Hanahan Police Department, Hanahan, SC
Hernando County Sheriff's Office, Brooksville, FL
High Point Police Department, High Point, NC
Highlands County Sheriff's Office, Sebring, FL
Hillsborough County Sheriff's Office, Tampa, FL
Jacksonville Police Department, Jacksonville, FL
James City County Police Department, Williamsburg, VA
Lakeland Police Department, Lakeland, FL.

Lamar County Sheriff's Office, Barnesville, GA
Lee County Sheriff's Office, Ft. Myers, FL
Leesburg Police Department, Leesburg, FL
Levy County Sheriff's Office, Levy County, FL
Los Angeles County District Attorney Office, Los Angeles, CA
Madison County Sheriff's Office, Madison, FL.
Marion County Sheriff's Office, Ocala, FL
Martin County Sheriff's Office, Stuart, FL
Metro-Dade County Police Department, Miami, FL
Nassau County Sheriff's Office, Callahan, FL
Naval Criminal Investigative Service, Mayport, FL
Ocala Police Department, Ocala, FL
Orange County Sheriff's Office, Orlando, FL
Office of the State Attorney, 17th Judicial Circuit, Fort Lauderdale, FL
Office of the State Attorney, 8th Judicial Circuit, Gainesville, FL
Osceola County Sheriff's Office, Kissimmee, FL
Palm Bay Police Department, Palm Bay, FL
Palm Beach County Sheriff's Office, West Palm Beach, FL
Palm Beach County Animal Services, West Palm Beach, FL
Panama City Police Department, Panama City, FL
Pensacola Police Department, Pensacola, FL
Pennsylvania State Police
Petersburg Police Department, Petersburg, VA
Pinellas County Sheriff's Office, Clearwater, FL
Pinellas County Animal Services, Clearwater, FL
Polk County Sheriff's Office, Winter Haven, FL
Port St. Lucie Police Department, Port St. Lucie, FL
Putnam County Sheriff's Office, Palatka, FL
Royal Cayman Islands Police Service, Georgetown, Grand Cayman.
Sarasota County Sheriff's Office, Sarasota, FL
Santa Monica Police Department, Santa Monica, CA
Santa Rosa County Sheriff's Office, Pensacola, FL
Shenandoah County Sheriff's Office, Woodstock, VA
State of Tennessee, Bomb and Arson Section. Memphis, TN
St. John's County Sheriff's Office, St. Augustine, FL
Sumter County Sheriff's Office, Bushnell. FL
Tallahassee Police Department, Tallahassee, FL
Taylor County Sheriff's Office, Perry, FL
Temple Terrace Police Department, Temple Terrace, FL
United States Food and Drug Administration, Miami, FL
United States Fish and Wildlife Service. Ashland, OR.
Virginia Division of Agriculture and Consumer Services. Richmond, VA.
Virginia State Police, Richmond, VA
Virginia State Police, Culpepper, VA
Volusia County Sheriff's Office, Daytona Beach, FL
West Palm Beach Police Department, West Palm Beach, FL.
Westport Police Department, Westport, MA

MEDICAL EXAMINER DISTRICTS

Florida District One Medical Examiner's Office, Pensacola, FL
Florida District Four Medical Examiner's Office, Jacksonville, FL
Florida District Five Medical Examiner's Office, Leesburg, FL
Florida District Six Medical Examiner's Office, Largo, FL
Florida District Eight Medical Examiner's Office, Gainesville, FL
Florida District Eleven Medical Examiner's Office, Miami, FL
Florida District Twelve Medical Examiner's Office, Sarasota, FL
Florida District Fourteen Medical Examiner's Office, Panama City, FL
Florida District Nineteen Medical Examiner's Office, St. Lucie, FL
Florida District Twenty-four Medical Examiner's Office, Sanford, FL
King County Medical Examiner's Office, Seattle, WA
Volusia County Medical Examiner's Office, Daytona Beach, FL

INDUSTRY / PRIVATE

Anheuser-Busch Companies, Inc.
Ayres, Cluster, Curry, McCall, & Briggs. P.A., Ocala, FL.
Alachua County Animal Services, Gainesville, FL.
Alachua General Hospital. Gainesville, FL.
Astellas Pharma Inc., Headquarters, Japan.
C. A. Pound Human Identification Laboratory, Gainesville, FL.
Escambia County Agricultural Extension Service, Pensacola FL.
Fann and Petruccelli, PA. Ft. Lauderdale, FL.
Falcon Valley Animal Hospital, Lenexa, KS
Fine, Farkash, and Parlapiano. Gainesville, FL.
Florida Freshwater Fish and Game Commission, Division of Wildlife Services.
Halifax Humane Society. Daytona Beach, FL.
Houck & Balisok Law Firm, Sacramento, CA.
Kohler Law, Ocala, FL.
Shargell Law, NY
Maddie's® Shelter Medicine Program, University of Florida, Gainesville, FL
Medical Cost Control and Management, Tampa, FL.
Nebraska Humane Society. Lincoln, Nebraska.
Nestle Foods, Inc.
Orange Park Medical Center, Orange Park, FL
Pet Rescue, Inc.
Pollo Tropical
Rosen Hotels
Scruggs & Carmichael, P.A., Gainesville, FL.
Shands Teaching Hospital, University of Florida Health Science Center, Gainesville, FL.
Shargell Law, NY
Skeltrak, Inc. Sarasota, FL.
The American Society for the Prevention of Cruelty to Animals, New York, NY.
The Hershey Company
The Law Firm of Glenn Siegel
University of Florida Agricultural Extension Service.
University of Florida College of Veterinary Science, Gainesville, FL.
University of Guelph – Ontario, Canada.
United States Department of Agriculture
Zurich Financial Services, North America
Walt Disney World Inc., Magic Kingdom.
Walt Disney World Inc., EPCOT.

Teaching

Educational Administration:

As Associate Director of the W.R. Maples Center for Forensic Medicine. I have overseen the development of the curriculum for the distance education programs in Veterinary Forensic Sciences, Wildlife Forensic Sciences, Shelter Medicine, and forensic medicine. The shelter medicine, wildlife forensic sciences, and forensic medicine programs have program specific directors, while I maintain daily oversight for the MS concentration and graduate certificate in veterinary forensic sciences.

On-Campus instruction:

ANT 3931 Forensic Anthropology
IDH 4934 Forensic Sciences

Online instruction:

ENY 6907 Forensic Entomology

Curriculum Development:

64 graduate courses submitted for approval and subsequently approved at the Master of Science level in the College of Veterinary Medicine, College of Agriculture and Life Science, and College of Medicine.

4 graduate certificate programs submitted for approval and subsequently approved at the Master of Science level in the College of Veterinary Medicine, College of Agriculture and Life Science, and College of Medicine.

Graduate Certificate in Wildlife Forensic Sciences
Graduate Certificate in Veterinary Forensic Sciences
Graduate Certificate in Shelter Medicine
Graduate Certificate in Shelter Medicine Leadership

4 Master of Science concentration programs submitted for approval and subsequently approved in the College of Veterinary Medicine, College of Agriculture and Life Science, and College of Medicine.

MS Concentration in Veterinary Forensic Sciences
MS Concentration in Wildlife Forensic Sciences
MS Concentration in Shelter Medicine
MS Concentration in Forensic Medicine

Courses created and submitted for approval with instructional faculty selected:

VME 6052 Animal Crime Scene Processing
VME 6054 Scientific and Legal Principles of Forensic Evidence
VME 6051 Cruelty to Animals and Interpersonal Violence
ENY 6706 Forensic Entomology
ENY 6710L Forensic Entomology Laboratory
VME 6053 Skeletal Trauma Analysis in Animals
VME 6065 Animal Law
VME 6574 Aquatic Animal Pathology
VME 6578 Forensic Veterinary Osteology
VME 6577 Veterinary Pathology in Practice
VME 6579 Veterinary Forensic Radiology and Imaging
VME 6570 Wildlife Conservation and Forensic Science
VME 6571 Forensic Applied Animal Behavior
VME 6572 Forensic Aspects of Agricultural Animal Welfare
VME 6576 Veterinary Forensic Pathology
VME 6573 Applications of DNA for Companion Animals and Wildlife
VME 6515 Veterinary Forensic Toxicology
VME 6616 Critical Thinking and Environmental Monitoring of Veterinary Agents
VME 6617 Risk Assessment and Mitigation for the Use and Management of Veterinary Agents
VME 6934 Seminar in Veterinary Pathology
VME 6951 Scientific Poster Writing
WIS 5562 Conservation Medicine
WIS 6557 Wildlife Conservation Laws and Legislation
WIS 6559 Contemporary Issues in Wildlife Protection and Conservation
WIS 6561 Wildlife Crime Scene Processing
WIS 6934 Working Dogs in Conservation and Forensic Sciences
WIS 6576 Human-Wildlife Conflict
WIS 6421 Wildlife Toxicology: The Ecohealth Perspective
WIS 6553 Wildlife Forensic Pathology
WIS 6425 Carrion Ecology & Evolution
WIS6306 Applied Wildlife Forensic Genetics
VME 6580 Cybercrime in Wildlife Investigations
WIS 6905 Botswana Field Course/ Study Abroad
VME 6813 Behavioral Health for Shelter Dogs and Cats
VME 6815 Animal Shelter Population Management by the Metrics
VME 6816 The Role of the Animal Shelter in Protecting Community and Public Health

VME 6818 High Quality High Volume Spay Neuter
VME 6819 Principles of Leadership in Animal Shelters
VME 6950 Capstone Project Presentation
GMS 6360 Principles of Forensic Medicine I
GMS 6362 Principles of Forensic Medicine II
GMS 6362 Principles of Crime Scene Investigation
GMS 6352 Artifacts of Decomposition
GMS 6354 Communications Skills in a Forensic Context
GMS 6351 Trauma Analysis
GMS 6363 Principles of Osteology
GMS 6350 Forensic Investigations
GMS 6358 Forensic Medicine III
GMS 6353 Gross Anatomical Exam
GMS 6359 Bloodstain Pattern Analysis
GMS 6357 Forensic Photography
GMS 6356 Applied Osteology
GMS 6355 Traffic Homicide Investigation and Reconstruction
GMS 6364 Forensic Botany

Ph.D. Students

Jim Crosby (Current)
University of Florida

Police Use of Force Against Companion Canines: Assessment of Evidence, Threat Perception, and Reasonability of Lethal Force with Consideration of the Effectiveness of Less-Lethal Force Options
Chair

Sarah K. Schoff (2018)
University of Florida

Estimating the Postmortem Interval in Florida: A Regional Validation Study Using Geospatial Analysis
Committee Member

Lerah Sutton (2017)
University of Florida

Declassifying Decomposition: Estimation of the Postmortem Interval Utilizing Total Body Score and Accumulated Degree-Days in Florida
Co-Chair

Nanny Wenzlow (2016)
University of Florida

Ribonucleic Acid (RNA) Decay and the Estimation of the Postmortem Interval in Horses.
Committee Member

Kimberly Tabor (2004)

Virginia Polytechnic Institute and State University

Succession and Development Studies on Carrion Insects of Forensic Importance
Committee Member

MS students

Rachel Moore (2021)
University of Florida

Decomposition Processes of Terrestrial vs. Marine Mammals
Chair

Laura Reuss (Current)
University of Florida

The Effect of Coarse Substates on Bloodstain Pattern Formation

Chair

Lane Blonder (Current)

University of Florida

The Digital Autopsy: A Modern Method to Supplement the Conventional Autopsy for Traumatic Deaths

Chair

April Doherty (Current)

University of Florida

Investigation and Prosecution of Animal Abuse Cases in Maryland, USA

Chair

Kelley Bagsby (Current)

University of Illinois

Colonization of Animals by Insects in the Early Postmortem Period

Co-Chair

Windosme EU (2020)

University of Florida

PMI Estimation in Felines

Chair

Rob Reisman (2019)

University of Florida

Survey of New York City Animal Cruelty Cases (2014-2016) with Associated Human Domestic Incidents

Chair

Natalie Gasz (2018)

Deakin University

Medical Maggots: Misunderstood Superheros

Committee Member

Nancy Bradly (2017)

University of Florida

Development of a Forensic Physical Exam Protocol for Companion Animals Entering Domestic Violence

Shelters with their Owners to Evaluate for Pathophysiological Signs of Animal Abuse

Chair

Samantha Barley (2017)

University of Florida

Prevalence of Neglect Cases in Small Animal Practices in the United Kingdom and Specific Animal Abuse

Training Received by Veterinarians.

Chair

Committee, Organizational & Volunteer Services

National

- **ANAB (ANSI National Accreditation Board) Assessor. 2021 cycle**
- **National Association of Medical Examiners – Education Activities. 2020-2022**
- **AAFS Standards Board, Disaster Victim Investigation Consensus Body – Secretary. 2016-Present.**
- **AAFS Standards Board, ASB Wildlife Forensics Consensus Body – Chairperson. 2016-Present.**
- **National Institute of Standards and Technology. Organization of Scientific Area Committees. Research Task Group. 2020-Present**

- **National Institute of Standards and Technology. Organization of Scientific Area Committees. Biology and DNA Committee Wildlife Subcommittee Member and Legal Resource Committee Representative. 2014-Present.**

Institutional

- **University of Florida Senate Steering Committee – 2020-2022.**
- **University of Florida Preservation of Historic Buildings and Sites Committee – 2020-Present**
- **University of Florida Peer Evaluation of Teaching Committee. 2020-Present.**
- **University of Florida Research and Scholarship Council. 2020-2022.**
- **University of Florida Academic Policy Committee. 2020 – 2021.**
- **University of Florida Compensation Committee. 2018- 2020.**
- **University of Florida, Faculty Senate. College of Medicine Representative. 2017- 2019.**
- **University of Florida Curriculum Committee. 2015-2018.**
- **University of Florida ADA Committee. 2014-2016.**
- **University of Florida Charitable Campaigns. Committee Member. 2014-2016**
- **Instructional Design and Online Learning Taskforce. College of Veterinary Medicine. University of Florida. 2011-2018.**
- **Commencement Committee. University of Florida Office of the President. 2010-2014.**

Volunteer (Community)

- **Georgia Hospital Association Mass Fatality Planning Committee. 2009-2013.**
- **Advisory Committee: Caribbean Fruit Fly, State of Florida. Appointed by Commissioner of Agriculture and Consumer Services. 2009-2010.**
- **Rules Development Committee. Florida Department of Agriculture and Consumer Services. 2007-2009.**
- **Advisory Committee. Florida State Agricultural Response Team. Florida Emergency Support Function 17. 2007-2009.**
- **Research Proposal Review Committee. Sponsored Programs Administration, Louisiana Board of Regents, State of Louisiana. 2008.**
- **Advisory Committee. Center for Biological Control. College of Engineering Sciences, Technology, and Agriculture. Florida Agricultural and Mechanical University. Member 2007-2009.**
- **Scientific Advisory Panel. State of Florida Fruit Fly Advisory Committee. 2007-2009.**
- **Subject Editor. Journal of Medical Entomology. Entomological Society of America. 2006-Present**
- **Florida Department of Transportation, Traffic Incident Management Team. 2002-2005**

Professional Organizations (Major affiliations)

- **Higher Education Committee Chairperson. Council of Forensic Science Educators. 2016-2017.**
- **Recertification Committee. American Board of Forensic Entomology. 2016-Present.**
- **Membership and Outreach Committee. Council of Forensic Science Educators. 2017-Present.**
- **Florida Association of Medical Examiners, Bylaws and Articles Committee. 2016-Present.**
- **Secretary and Treasurer. Florida Division of the International Association for Identification. 2017-2019.**
- **Editor-In-Chief. Journal of Veterinary Forensic Sciences, Inc. (2017- Present)**
- **General Forensics, Science and Practices, Member. Florida Division of the International Association for Identification. 2009-2017.**

- **American Academy of Forensic Sciences, Forensic Science Foundation Career Booklet Committee. 2014**
- **Recertification Committee. American Board of Forensic Entomology. 2010-2014.**
- **Continuing Education Committee. American Academy of Forensic Sciences. 2011-2014.**
- **Ad Hoc Committee on the Recruitment and Retention of Forensic Biologist into the Pathology/ Biology Section. American Academy of Forensic Sciences. 2010-2013**
- **Pathology/ Biology Awards Committee Co-Chair. American Academy of Forensic Sciences. 2009-2010.**
- **Anthropology and Entomology Steering Committee. Chair. Florida Division of the International Association for Identification. 2009-2016.**
- **Sciences and Practices Technical/Safety Advisory Committee. Florida Division of the International Association for Identification. 2008-2016**

Seminars and Extramural Invited Presentations

2022. Animal Forensic Sciences. Hosted by the University of Alcala, Madrid, Spain. October 30, 2022
2022. Careers in Forensic Sciences. Hosted by Ursuline Academy. Cincinnati, Ohio. October 19.
2022. Bugs, Bones, and Botany. Hosted by the University of Florida Department of Continuing Education and Professional Development. Gainesville, FL Oct. 17-21
2022. Insects from Clandestine Gravesites. International Workshop on Advances and Applications in Geoforensics: Unraveling Crimes with Geology. Università degli Studi di Messina. September 26. Messina, Italy.
2022. The Effect of Coarse Substrates on Bloodstain Pattern Formation. Laura Reuss, Jason Byrd, Adam Stern, Lerah Sutton. 15th Annual Veterinary Forensic Sciences Conference. September 14. Virtual Conference.
2022. Veterinary Forensic Entomology. Hosted by Airlangga University, Veterinary Forensics Summer Course. Surabaya, East Java, Indonesia.
2022. Forensic Entomology in Animal Legal Investigations. Florida Agricultural Crimes Intelligence Unit.
May 18. Gainesville, FL.
2022. The Science of Forensic Entomology. Hosted by CrimeCon. April 30. Las Vegas, NV.
2022. Applications of Forensic Entomology. Hosted by the Worldwide Association of Women Forensic Experts. WAWFE International Conference. Madrid, Spain. April 22-23, and 29-30.
2022. Insects in Legal Investigations. Hosted by Department of Forensic Science and Criminology.
AFC Group of Institutions, Madurai Kamarajar University. Tamil Nadu, India.
2022. Forensic Entomology. Hosted By UF/IFAS Volusia County Extension. Deland, Florida.
February 22, 2022.
2022. Animal Fighting Investigations Workshop. Hosted by Volusia County Animal Services.

Daytona Beach, Florida. February 4.

2022. Criminalística de campo: Fundamentos aplicados a casos prácticos.

(Crime scene investigation: Fundamentals applied to practical cases).

Universidad de Alcalá. Madrid, Spain.

2021. Recovery of Human Remains. Hosted by the University of Arkansas, Criminal Justice Institute. Little Rock, AR. October 18-22.

2021. Bugs, Bones, and Botany. Hosted by the University of Florida Department of Continuing Education and Professional Development. Gainesville, FL Oct. 4-8.

2021. Forensic Science and Entomology for the Mystery Writer. Hosted by the Writers Police Academy and Murdercon 2021 Conference. Virtual. August 6-7.

2021. First International Virtual Meeting of Animal Forensic Sciences (IVM-FAS). Madrid, Spain. June 17-19.

2021. Forensic Entomology. Hosted by the King County Sheriff's Office. Spring Valley, WA. June 8-9.

2021. Investigation of crimes against domestic and wild fauna. X International Collective Veterinary Medicine Conference. Universidade Federal Do Parana. Brazil. May 17.

2021. Forensic Entomology. Hosted by the Criminal Justice Institute, University of Arkansas. Little Rock, AR. April 20-21.

2021. Evidence of human-induced trauma in two species of pinnipeds in the Southwest Atlantic Ocean. 24th Biennial Conference of marine mammals held in Palm Beach, FL. Submitted: December

2020. Veterinary Forensic Sciences. Criminalistics and Criminology International Conference. Hosted by the Worldwide Association of Women Forensic Examiners. University La Sapienza, Rome, Italy. November 22.

2020. Buried Bodies. Miami Dade Police Training Department. Miami, FL. November 16-17.

2020. Applications of Forensic Entomology In Legal Investigations.

Global City: Knowing USA 2020. Forensic Entomology:
An Overview from USA. October 29. Hosted by Tecnológico de Antioquia.
Medellin, Columbia.

- 2020. Forensic Science Distance Education: Trials, Tribulations, and Triumphs. Forensic Education Session. American Academy of Forensic Sciences annual meeting. Anaheim, CA.
- 2020. Disaster Victim Identification: Victim Information Center. Mass Fatality Management Workshop (W14). American Academy of Forensic Sciences annual meeting. Anaheim, CA.
- 2019. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. December 3.
- 2019. Introduction to Crime Scene Investigation: What the Pathologist Needs to Know. Hosted by the American College of Veterinary Pathologists. San Antonio, TX. November 13.
- 2019. Death in Large Numbers: Fatality Management. Hosted by the International Forensic Medicine Association. Daytona Beach, FL. September 20.
- 2019. Mass Fatality Management. Hosted by the International Crime Scene Investigators Association. Chicago, IL. September 11.
- 2019. FEMORS Response to the Pulse Nightclub Shooting. Hosted by the South Carolina Department of Health and Environmental Control. Columbia, SC. May 30.
- 2019. Mass Fatality Family Assistance Centers. ASCLAD Annual Meeting. St. Louis, MO. May 19.
- 2019. Updates on NIST/OSAC Standards and Guideline Documents. 12th Annual Veterinary Forensic Sciences Conference. St. Petersburg, FL. May 9.
- 2019. Animal Fighting Workshop. 12th Annual Veterinary Forensic Sciences Conference. St. Petersburg, FL. May 7.
- 2019. Bugs, Bones, and Botany. Hosted by the CSI Academy of Florida. April 8-12.
- 2019. Forensic Entomology. Hosted by the FBI Evidence Response Team. Alachua, FL. April 24.
- 2019. Forensic Entomology. Hosted by the USF/FIRST Facility. Tampa, FL. April 18.
- 2019. Forensic Entomology. CSI Academy of Florida. April 17.
- 2019. Forensic Entomology. University of Florida Forensic Science Club. April 16.
- 2019. Wildlife Forensic Sciences. College of Wildlife Ecology and Conservation Biology. April 15.
- 2019. The Role of a Forensic Entomologist in Legal Investigations. Hosted by Purdue University, Forensic Sciences Program. April 8.
- 2019. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. April 8.
- 2019. Managing Mass Fatalities. G386. Martin County Emergency Management. Martin County Emergency Operations Center. March 28-29.

2019. Veterinary Forensic Sciences. College of Veterinary Medicine, Auburn University. March 20.
2018. X Marks the spot: Suspected broadhead arrow injuries in two bottlenose dolphins *Tursiops truncatus* along the Alabama Coast. World Marine Mammal Conference. Barcelona, Spain. December 6.
2018. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. December 4.
2018. Managing Mass Fatalities. Hosted by the Central Florida Disaster Medical Coalition. Osceola County Emergency Operations Center. December 3.
2018. Bugs, Bones, and Botany. Hosted by the Criminal Justice Institute, University of Arkansas. Little Rock, AR. Nov. 13-15.
2018. Forensic Entomology and Buried Remains. Miami Dade Police Department. Hosted by the Miami Dade Police Department Training Bureau. November 5-9.
2018. FEMORS Response to the Pulse Nightclub Shooting Event. Medicolegal Investigation of Death Conference. Daytona Beach, FL. September 5.
2018. Animal Hoarding and Fighting. Hosted by the Humane Society of the United States, the CSI Academy of Florida, and the University of Florida. Alachua, FL August 28-29.
2018. What Investigators Need to Know About Working with Forensic Entomologists. International Association for Identification. San Antonio, TX. Aug 2.
2018. Forensic Methods for Species Determination of Unknown Wildlife Carcasses or Remains. Weber, Allmon, Lakatos, Byrd, and Sepulveda. International Association for Identification. San Antonio, TX. Aug 2.
2018. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. July 16.
2018. Managing Mass Fatalities. G386. Brevard County Emergency Management. Brevard County Emergency Operations Center. June 21-22.
2018. Bloodstain Pattern Analysis. Royal Cayman Islands Police Service. Grand Cayman. 24 CEUs June 5-7.
2018. The Collection of Entomological Evidence in Unique Environments for Animal Crime Scenes. 11th Annual Veterinary Forensic Science Conference. Portland, OR. May 17.
2018. DNA Collection in the Mass Fatality Morgue. Center for Domestic Preparedness. | Anniston, AL. May 10.
2018. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. April 3.
2017. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. December 5.
2017. Forensic Entomology. University of Florida Department of Entomology and Nematology. Gainesville, FL. November 8.
2017. Buried Body Recovery. University of Arkansas, Criminal Justice Institute. Little Rock, AR. October 30-November 3.
2017. Pulse Nightclub Shooting Response. Florida Division of the International Association for Identification annual conference. Panama City, Florida. October 24.

2017. Forensic Entomology for the Veterinarian. Iowa State University. Ames, IA. October 11.
2017. Pulse Nightclub Shooting Response. Florida Association of Medical Examiner's Annual Conference and Business meeting. Orlando, FL. July 2.
2017. DNA Collection in the Mass Fatality Morgue. Center for Domestic Preparedness. Anniston, AL. June 8.
2017. Standards Development in Veterinary Forensic Sciences. Presented at the 10th Annual Veterinary Forensic Sciences Conference. New York, New York. May 18.
2017. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. April 5.
2017. G386. Mass Fatality Management. Hosted by the Broward County Emergency Operations Center and the Florida Department of Emergency Management. Ft. Lauderdale, FL. March 30-31.
2017. FEMORS Response: Pulse Nightclub Shooting. FEMA Region IV Unified Planning Council. March 9. Charleston, SC.
2017. What Shapes Our Future? Foundations and New Directions. Veterinary Forensic Sciences. Young Forensic Scientists Forum. Special Session #2. American Academy of Forensic Sciences. Annual Meeting. New Orleans, LA. February 14
2017. Considerations for Crime Scene Analysis When Utilizing Forensic Science Experts for Post-Scene Analysis. Workshop 15. American Academy of Forensic Sciences. Annual Meeting. New Orleans, LA. February 13.
2017. Chemical Enhancement of Fingerprints. Hosted by the Royal Cayman Islands Police Service. Grand Cayman. February 9-11.
2017. G386. Mass Fatality Management. Hosted by the Indian River County Emergency Operations Center and the Florida Department of Emergency Management. Vero Beach, FL. January 19-20.
2017. G386. Mass Fatality Management. Hosted by the Leon County Emergency Operations Center and the Florida Department of Emergency Management. Tallahassee, FL. January 12-13.
2016. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. December 5.
2016. Forensic Entomology. Presented to the American College of Veterinary Pathologists. 2016 Annual Conference. New Orleans, LA. December 7.
2016. *Animal Crime Scenes*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. November 15-17.
2016. Bugs, Bones and Botany. Hosted by the W.R. Maples Center for Forensic Medicine. University of Florida College of Medicine. Gainesville, FL. October 31-Nov 4.
2016. Animal Crime Scenes. Gainesville, FL. November 14-17.
2016. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. September 21.
2016. Animal Crime Scene Analysis. College of Veterinary Medicine. St. Matthew's University. Grand Cayman. September 8.

2016. West Mexico Ritual and Identity Series: CSI West Mexico. Gilcrease Museum. October 2.
2016. Death and Crime Scene Investigations Conference. Veterinary Forensic Sciences. Daytona Beach, FL. Sept. 14-16.
2016. FEMORS Response to the Pulse Nightclub Shooting. Florida Emergence Management Association. Sarasota, FL August 4.
2016. FEMORS Response to the Pulse Nightclub Shooting. Hillsborough County Sheriff's Office. Tampa, FL July 15.
2016. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. July 11.
2016. DNA Collection in the Mass Fatality Morgue. Center for Domestic Preparedness. Anniston, AL. June 23.
2016. Forensic Entomology in Death Investigations. International Crime Scene Investigators Association. Kansas City, KS. May 17.
2016. Buried Bodies. Okaloosa County Sheriff's Office. Niceville, FL. April 27-29.
2016. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. April 4.
2016. Forensic Photography. Hosted by the Royal Cayman Islands Police Service. Grand Cayman. January 14-15.
2015. Forensic Entomology. Postmortem Interval Determination Investigation Conference. Miami-Dade County. Miami, Florida. April 4.
2015. Forensic Photography. Royal Cayman Islands Police Service. Grand Cayman. December 14-15.
2015. FEMORS and VIP. Presented to the Central Florida Disaster Medical Coalition. Bill Posey Conference Center, Brevard County, Florida. December 17.
2015. Veterinary Forensic Sciences. Presented to the Animal Grantmakers Conference. Gainesville, FL November 14.
2015. Bugs, Bones and Botany. Hosted by the W.R. Maples Center for Forensic Medicine. University of Florida College of Medicine. Gainesville, FL. November 9-13.
2015. Veterinary Forensic Sciences. St. Matthews University College of Veterinary Medicine. Grand Cayman. November 6-7.
2015. Forensic Entomology. Postmortem Interval Determination Investigation Conference, for the Florida Department of Law Enforcement. Department of the Medical Examiner. Miami-Dade County. Miami, Florida. November 4.
2015. Serial Animal Mutilation in Bay County, Florida. Florida Division of the International Association for Identification. St. Petersburg, Florida. October 21.
2015. *Human Remains Recovery Course*. Criminal Justice Institute. University of Arkansas System. Little Rock, AR. October 26-30.
2015. *Forensic Entomology*. Hosted by the Okaloosa County Sheriff's Office and Northwest Florida State College. Niceville, FL. October 7.
2015. *Veterinary Forensic Sciences*. 80th Annual Conference on Racing and Wagering Integrity.

- Association of Official Racing Chemists. Orlando, FL April 23.
2015. *Forensic Entomology*. Hosted by the Colorado Animal Control Officers Association. Golden Colorado. April 21.
2015. *Forensic Entomology*. College of Veterinary Medicine. University of Florida. Gainesville, FL April 14.
2015. *Human Remains Detector Dog Workshop*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. March 6-8.
2015. *Sleuthfest*. Along Came a Spider, and then a Beetle, and then a Maggot. Deerfield Beach, FL February 27.
2014. *Forensic Entomology. Forensic Entomology*. Department of Entomology and Nematology. University of Florida. November 17.
2014. *Buried Bodies*. Hosted by Miami Dade Police Training Bureau. Miami, FL November 10-14.
2014. *Veterinary Forensic Sciences*. Hosted by The Villages Lifelong Learning College. The Villages, FL October 27.
2014. *Bugs, Bones and Botany*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. October 6-10.
2014. *Bloodstain Analysis and Forensic Entomology*. Royal Cayman Islands Police Service. Grand Cayman. September 26-28.
2014. *Animal Crime Scene workshop*. University of Florida. Gainesville, FL September 10-12.
2014. *14th Annual Teaching Enhancement Symposium*. University of Florida Institute of Food and Agricultural Sciences. Gainesville, FL. August 19.
2014. *Forensic Entomology for the Investigator*. Medicolegal Investigation of Death Seminar Series. Miami-Dade Department of the Medical Examiner. Miami, FL. April 8.
2014. *Forensic Entomology*. ForensicWeek. University of Maryland. College Park, MD. March 27.
2013. *Forensic Entomology for the Investigator*. Medicolegal Investigation of Death Seminar Series. Miami-Dade Department of the Medical Examiner. Miami, FL. December 1.
2013. *Human Remains Recovery*. Hosted by the Criminal Justice Institute, University of Arkansas System. Little Rock, AR. October 28- Nov 1.
2013. *Human Remains Detector Dog Workshop*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. October 19-21.
2013. *Bugs, Bones and Botany*. Hosted by the W.R. Maples Center for Forensic Medicine. Ocala, FL. October 7-11.
2013. *Animal Crime Scenes*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. September 11-13.
2013. *Forensic Entomology for the Veterinarian*. Veterinary Forensic Pathology Course. College of Veterinary Medicine. University of Florida. April 15.
2013. *Forensic Entomology for the Investigator*. Medicolegal Investigation of Death Seminar Series. Miami-Dade Department of the Medical Examiner. Miami, FL. April 9.

2013. *Veterinary Forensic Sciences*. College of Veterinary Medicine. North Carolina State University. April 2.
2013. *Forensic Entomology for the Investigator*. Homicide Division. Office of the Sheriff. Jacksonville, FL. February 25.
2012. *Forensic Entomology Field Training*. FBI Evidence Response Team. Jacksonville FBI Field Office. Gainesville, FL. December 12.
2012. *Forensic Entomology for the Investigator*. Medicolegal Investigation of Death Seminar Series. Miami-Dade Department of the Medical Examiner. Miami, FL. December 11.
2012. *Forensic Entomology*. Department of Entomology and Nematology. University of Florida. November 2-4, 2012. Gainesville, FL.
2012. *Animal Crime Scenes*. Hosted by the W.R. Maples Center for Forensic Medicine. Gainesville, FL. October 10-12.
2012. *Bugs, Bones and Botany*. Hosted by the W.R. Maples Center for Forensic Medicine. Ocala FL. September 10-14.
2012. *Veterinary Forensic Sciences*. FDIAl Annual Conference. October 22-24.
2012. The Castaway of Gardner Island – Forensic Anthropology. *The International Group for Historic Aircraft Recovery*. Earhart 75th Anniversary Conference. Washington, DC. June 6.
2012. *Careers in Forensic Sciences*. Criminology and Law Honor Society. Department of Sociology. University of Florida. April 12.
2012. *Wildlife Forensic Sciences Focus Group*. International Congress for Conservation Biology. Baltimore, MD. July 23.
2012. *Postmortem Interval Estimation*. Veterinary Forensic Pathology. College of Veterinary Medicine. University of Florida. Gainesville, FL. April 11.
2012. *Introduction to Forensic Entomology*. Medico-Legal Investigation of Death. Miami-Dade County Department of the Medical Examiner. Miami, FL. April 7.
2012. *Animal Crime Scenes: Hoarding*. Maddie's Shelter Medicine Program Forensic Science Conference. Gainesville, FL. March 24-25.
2012. *Forensic Entomology*. Florida Pest Control Management Meeting. Gainesville, Florida. February 7.
2012. *Sex Determination from Craniometric Measurements of Canis familiaris*. L. K. Sutton and J. H. Byrd. Young Forensic Scientist Forum. American Academy of Forensic Sciences. Annual Meeting, Atlanta Georgia. February 23, 2012.
2012. *You Can Lead a Horse to Water; But You May Not Be Able To Figure Out What Killed It*. Young Forensic Scientist Forum. American Academy of Forensic Sciences. Annual Meeting, Atlanta Georgia. February 23, 2012.
2011. *Forensic Science*. Science Teachers Summer Camp. Teacher Enrichment Programs. University of Florida Center for Precollegiate Education and Training. June 30.
2011. *Real Life CSI*. Bug Camp. Hosted by the Department of Entomology and Nematology. University of Florida. Gainesville, FL. June 28.
2011. *Advanced Concepts in Forensic Entomology*. Florida Association of Medical Examiners.

- Annual Conference and Business Meeting. Palm Beach, FL June 22.
2011. *It's a Bugs Life. How Insects on a Body Help and Hinder.* SleuthFest. Mystery Writers of America, Florida Chapter. Deerfield Beach, FL. March 4.
2011. *Mass Fatality Management: A Multi-National Perspective.* Presented at the 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences. Chicago, IL. February 25.
2011. *Animals as Evidence: Postmortem Interval Indicators.* Presented at the 63rd Annual Scientific Meeting of the American Academy of Forensic Sciences. Chicago, IL. February 22.
2011. *Forensic Grave and Bone Recognition.* Hosted by the C.A. Pound Human Identification Laboratory. University of Florida. Gainesville, FL. January 29.
2011. *Mapping and Excavation: Forensic Science Begins at the Crime Scene.* North American Veterinary Conference. Orlando, FL. January 19.
2011. *Establishing Timelines using Forensic Science.* North American Veterinary Conference. Orlando, FL. January 15.
2010. *Animal Crime Scenes.* Hosted by the ASPCA. University of Florida. Gainesville, FL. November 10-12.
2010. *Careers in Forensic Science.* Hosted by Rollins College. Winter Park, FL. November 19.
2010. Forensic Entomology. Department of Entomology and Nematology. University of Florida. Gainesville, FL. November 17.
2010. *Animal Disaster Response.* Colorado State University. Hosted by the North American Veterinary Conference. Ft. Collins, CO. October 29.
2010. *Animal Disaster Response.* Hosted by the Florida Division of the International Association for Identification. St. Petersburg, FL. October 19.
2010. *The Real CSI.* Hosted by the Altrusa Society of America. Gainesville, FL. October 14.
2010. *Animal Disaster Response.* New Zealand Companion Animal Conference. Hosted by the New Zealand Companion Animal Council. Christchurch, New Zealand. October 5.
2010. *Animal Crime Scenes.* Hosted by the New Zealand Royal Society for the Prevention of Cruelty to Animals. Auckland, New Zealand. September 28-30.
2010. *Animal Crime Scenes.* Hosted by the Royal Society for the Prevention of Cruelty to Animals. Queensland, Australia. September 24-27.
2010. *Illustrative Case Examples in Forensic Entomology.* Florida Association of Medical Examiner's. Hosted by the William R. Maples Center for Forensic Medicine. Orlando, FL. May 28-30.
2010. *The Real CSI.* Hosted by Rotary Club International. Gainesville, FL. June 8.
2010. *Discovery and Recovery.* Hosted by the North Carolina Program for Forensic Science. North Carolina State University. June 1-5. Raleigh, NC.
2010. *The 17th Annual Forensic Entomology Short Course.* Hosted by The Pennsylvania State University. May 18-21. State College, PA.
2010. *Veterinary Forensic Sciences.* International Veterinary Forensic Sciences Association.

- Annual Conference. Orlando, FL. May 12-15.
2010. *Crime Scene Insects*. Florida Museum of Natural History. Gainesville, FL. May 30.
2010. *Insects at the Crime Scene*. Florida Museum of Natural History Docent Training. Florida Museum of Natural History. Gainesville, FL. May 29.
2010. *Disaster Response*. North Carolina Division of the International Association for Identification. Annual Conference. Raleigh, NC. May 4.
2010. FBI Evidence Response Team Training. Hosted by the FBI Field Office. Tampa, FL. April 9.
2010. *CSI: It's a Career*. Hosted by Rollins College Department of Biology. Winter Park, FL. April 4.
2010. *Mortuary Affairs Training*. US Army. Ft. Lee, Virginia. April 11-14.
2010. *G386 Mass Fatality Training*. Pasco County Florida. March 25-26.
2010. *Animal Crime Scenes*. Hosted by the Pre-Veterinary Student Association, Florida Atlantic University. Ft. Lauderdale, FL. March 23.
2010. *Veterinary Pathology: Necropsy Lab*. Hosted by the Maddie's Shelter Medicine Program. University of Florida College of Veterinary Medicine. Gainesville, FL. March 20.
2010. *Excavation of Buried Remains*. Hosted by the American Association for the Prevention of Cruelty to Animals. Gainesville, FL. March 17.
2010. *Forensic Entomology Workshop*. Hosted by West Virginia University Forensic Science Initiative. Ft. Worth, TX. March 9-11.
2010. *Wildlife Forensic Science*. Forensic Entomology Shortcourse. Hosted by Michigan State University. Gainesville, FL. March 8-12.
2010. *Legal Applications in Entomology*. Forensic Entomology Course. Department of Entomology and Nematology. University of Florida, Gainesville, FL. February 3.
2010. *Development of Standard Operating Procedures for Conducting Arthropod Succession Studies: Improving Postmortem Estimates through Ecology*. Presented at the American Academy of Forensic Sciences 62nd Annual Meeting. Seattle, WA. February 25.
2009. Techniques in Forensic Entomology. Medical and Veterinary Entomology. Department of Entomology and Nematology, University of Florida. November 19.
2009. SAFS Annual Conference. Hosted by the Southern Association of Forensic Scientists. Joint meeting with Mid-Atlantic Association of Forensic Scientists, Midwestern Association of Forensic Scientists, and the Southwestern Association of Forensic Scientists. Orlando, FL. October 18-23.
2009. *Undiscovered Human Remains*. Hosted by the Virginia Institute of Forensic Science and Medicine. Virginia Beach, VA. October 12-15, 2009.
2009. *Medicolegal Death Investigation Conference*. Hosted by the Office of the Medical Examiner, State of Utah. Salt Lake City, UT. September 28-29.
2009. *Careers in Biology*. Hosted by Rollins College Office of Career Services. Winter Park, FL. September 22.
2009. *Instructional Cases in Forensic Entomology*. Florida Association of Medical

- Examiners. Hosted by the William R. Maples Center for Forensic Medicine. University of Florida College of Medicine. August 12-14. Sarasota, FL
2009. *Biomass Planting Permit Procedure*. Farm to Fuel Summit. Florida Department of Agriculture and Consumer Services. July 29-31. Orlando, FL.
2009. *CSI: Animal Edition*. American Association for Laboratory Animal Science. 2009 Annual Meeting – Florida Branch. July 20. Gainesville, FL.
2009. *Standards for Forensic Evidence*. North American Forensic Entomology Association. 7th Annual Meeting. July 15-17. Sunny Isles, FL.
2009. *Veterinary Forensic Science: Animal Crime Scenes*. Hosted by the William R. Maples Center for Forensic Medicine. University of Florida College of Medicine. October 15-17. Gainesville, FL.
2009. *The 16th Annual Forensic Entomology Short Course*. Hosted by The Pennsylvania State University. May 28-20. State College, PA.
2009. *Discovery and Recovery*. Hosted by the North Carolina Program for Forensic Science. North Carolina State University. May 19-23. Raleigh, NC.
2009. *Legal and Scientific Requirements for Forensic Evidence*. International Veterinary Forensic Sciences Association. 2nd Annual Meeting. May 15-17. Orlando, FL.
2009. *Veterinary Forensic Science*. Hosted by the North Carolina State University, College of Veterinary Medicine. April 1. Raleigh, NC.
2009. *Basic Bugs, Bones and Botany*. Hosted by the College of Professional Studies. Florida Gulf Coast University. March 2-4. Ft. Myers, FL.
2009. *Forensic Entomology in Veterinary Forensic Science*. American Academy of Forensic Sciences. 61st Annual Meeting. February 19. Denver, CO.
2009. *What's Buggin' You?* North American Veterinary Conference. January 19. Orlando, Florida.
2008. *Veterinary Forensic Science: Animal Crime Scenes*. Hosted by the William R. Maples Center for Forensic Medicine. University of Florida College of Medicine. October 15-17. Gainesville, FL.
2008. *Unidentified Remains*. Hosted by the Virginia Institute of Forensic Science and Medicine. October 6-8. Quantico, VA.
2008. *Bugs, Bodies, Candy Bars, and Evidence*. Hosted by the University of Richmond, School of Law. October, 1. Richmond, VA.
2008. *Veterinary Forensic Science: Bite Mark Analysis*. Hosted by the William R. Maples Center for Forensic Medicine. University of Florida College of Medicine. September 22-23. Gainesville, FL.
2008. *Mass Fatalities Response*. Incident Command System, G386. Hosted by the Tampa Bay Regional Planning Council. June 17-19. Sarasota, Florida.
2008. *The 15th Annual Forensic Entomology Short Course*. Hosted by The Pennsylvania State University. May 28-20. State College, PA.
2008. *Discovery and Recovery*. Hosted by the North Carolina Program for Forensic Science. North Carolina State University. May 19-23. Raleigh, NC.
2008. *Veterinary Forensic Science*. Hosted by the William R. Maples Center for Forensic

- Medicine, and The American Society for the Prevention of Cruelty to Animals.
March 9-11. Orlando, FL.
2008. *Bugs, Bones and Botany*. Hosted by the Department of Public Prosecutions.
March 26-28. Bermuda.
2008. *Careers in Forensic Science*. Hosted by Rollins College, Busch Science Center.
March 20. Winter Park, FL.
2008. *Forensic Biology*. Hosted by the Center of Science and Industry. March 19.
Columbus, OH.
2008. *Basic Medicolegal Investigation of Death*. Hosted by the Virginia Institute of Forensic
Science and Medicine. March 10. Charlottesville, VA.
2007. *Entomology in Forensic Investigations*. Hosted by: Florida Homicide Investigators
Association. October 15. Jacksonville, FL.
2007. *National Transportation Safety Board Articulation Agreement with National Disaster
Medical System*. Hosted by: Disaster Mortuary Operational Response Team Region IV.
Annual Training. August 18. Nashville, TN.
2007. *Discovery and Recovery: Death In Natural Environments*. Hosted by the North Carolina
State University. May 21-15, Raleigh, NC.
2007. *Entomological Evidence in Agricultural Crime*. Hosted by the Florida Agricultural
Crime Intelligence Unit. May 16. Winter Haven, FL.
2007. *High Frequency Single Side Band and Very High Frequency Radio Operation and Radio
Safety*. Florida Department of Health and the University of Florida. Florida Emergency
Mortuary Operations Response System. May 3. Orlando, FL
2007. *Continuing Education for Forensic Science Professionals*. Hosted by the West Virginia
University Forensic Science Initiative. University of West Virginia. March 26-31.
Orlando, FL.
2007. *Covert Burial*. Hosted by the William R. Maples Center for Forensic Medicine and the
Virginia Institute of Forensic Science and Medicine. March 22-23. Orlando, FL.
- 2007. *Ethics and Current Issues in Forensic Entomology*. Presented at the Young
Forensic
Scientists Forum. American Academy of Forensic Sciences Annual Meeting.
February
21. San Antonio, TX.**
- 2007. *The Role of the Atmosphere in Forensic Investigations*. Workshop #23, American
Academy of Forensic Sciences Annual Meeting. February 21. San Antonio, TX.**
- 2006. *Bugs, Bones and Botany*. Hosted by Department of Professional Studies, Florida
Gulf
Coast University. Dec. 11-15. Ft. Myers, FL**
- 2006. *Human Remains Recovery*. National Center for Rural Law Enforcement, University
of
Arkansas System. Oct. 8-9. Little Rock, AR.**
- 2006. *Forensic Entomology*. National Center for Rural Law Enforcement, University of
Arkansas System.
June 14-15. Little Rock, AR.**
- 2006. *Fourteenth Annual Forensic Entomology Workshop*. Hosted by the Pennsylvania**

State
University. May 24-26, 2005. University Park, PA.

2006. *Forensic Archaeology, and Bugs, Bones, Botany*. Hosted by North Carolina State University. May 15-19, 2006. Raleigh, NC.
2006. Forensic Science Educational Conference. Hosted by Florida Gulf Coast University and the American Academy of Forensic Sciences. May 5-7, 2006. Ft. Myers, FL.
2006. *Bugs, Bones, and Botany*. Hosted by Florida Gulf Coast University, Institute of Forensic Excellence. January 9-13, 2006. Ft. Myers, FL.
2006. *Basic Forensic Science and Medicine Seminar*. Hosted by the Virginia Institute of Forensic Science and Medicine. April 24-27, 2006. Charlottesville, VA.
2005. *Thirteenth Annual Forensic Entomology Workshop*. Hosted by the Pennsylvania State University. May 25-27, 2005. University Park, PA.
2005. *Bugs, Bones, and Botany*. Hosted by North Carolina State University. May 16-20, 2005. Raleigh, NC.
2005. *Applications of Entomology in Agricultural Crimes*. Florida Agricultural Crimes Intelligence Unit. April 21, 2005. Bunnell, FL.
2005. *Entomology in our Legal System*. Stetson University College of Law. April 13, 2005. St. Petersburg, FL
2005. *Basic Forensic Science and Medicine Workshop*. Virginia Institute of Forensic Science and Medicine. April 14, 2005. Richmond, VA.
2005. *Death Scene Forensic Entomology: Collection and Preservation*. Hosted by Florida Gulf Coast University, Institute for Forensic Excellence. March 4, 2005. Fort Myers, FL.
2005. *Interdisciplinary workshop yields new entomological data for forensic sciences: Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in North Carolina*. Jeffery K. Tomberlin, Ph.D., A. Midori Albert, Ph.D., Jason H. Byrd, Ph.D. and David W. Hall, Ph.D. Presented at that the American Academy of Forensic Sciences 57th Annual Meeting. February 25, 2005. New Orleans, LA.
2005. *Interdisciplinary Forensic Science Workshops: A Venue for Data Collection*. American Academy of Forensic Sciences 57th Annual Meeting. Physical Anthropology Section. February 25, 2005. New Orleans, LA.
2005. *What's on the Menu?* American Academy of Forensic Sciences 57th Annual Meeting. Invited Luncheon Presentation. February 24, 2005. New Orleans, LA.
2004. *Insects in Legal Investigations*. Virginia Institute of Forensic Science and Medicine, Fifth Year Anniversary Convention. Sponsored by Kenyon International. Las Vegas, NV. November 7-10.
2004. *Forensic Science Educational Conference*. Hosted by Louisiana State University. Sponsored by the American Academy of Forensic Sciences and CourtTV. Baton Rouge, LA November 5-7.
2004. *Advanced Forensic Science and Medicine Workshop*. Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. September 15, 2004.
2004. *Bugs, Bones, and Botany*. Hosted by Virginia Commonwealth University, Richmond, VA. July 19-23.

2004. *Digging for Clues*. The 2004 67th Annual Education Conference. Hosted by the Texas Division of the International Association for Identification. Wichita Falls, TX June 23-27.
2004. *The 12th Annual Forensic Entomology Workshop*. The Pennsylvania State University. State College, PA. May 26-28.
2004. *Entomological Death Investigations*. Clayton State College, University of Georgia System, Atlanta, GA. May 5, 2004.
2004. *Six-Legged Forensics*. H. O. Lund Distinguished Speaker Seminar. University of Georgia, Department of Entomology. Athens, GA. March 22-23.
2004. *Research Trends in Forensic Entomology: A Worldwide Perspective*. Dallas, TX. February 20.
2004. *Non-Traditional Careers in Forensic Science*. American Academy of Forensic Sciences, Young Forensic Scientists Forum. Dallas, TX. February 17.
2004. *Basic Forensic Science and Medicine Workshop*. Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. January 26-27.
2003. *These Little Piggies Went to the Cooler: Trials and Tribulations of Measuring Maggot Mass Temperatures*. M. Eric Benbow, Ryan Kimbirauskas, Jason H. Byrd, and Richard Merritt. First Annual Meeting of North American Forensic Entomologists. Las Vegas, NV. August 7-9.
2003. Basic Forensic Science and Medicine Workshop. Virginia Institute of Forensic Science and Medicine. Richmond, VA. August 4-7.
2003. *Medicolegal Investigation of Death*. Forensic Science and Medicine Seminar. Virginia Institute of Forensic Science and Medicine. Richmond, VA. July 28-31.
2003. *Bugs, Bones and Botany*. Forensic Science for Science Teachers. Sponsored by Virginia Commonwealth University. Richmond, VA. June 23-27.
2003. *The 11th Annual Forensic Entomology Workshop*. The Pennsylvania State University. State College, PA. May 21-23.
2003. *Advanced Bugs, Bones & Botany*. Sponsored by the University of Florida, William R. Maples Forensic Science Center. Gainesville, FL May 12-16.
2003. *Field Methods in Forensic Anthropology*. University of Central Florida. Department of Anthropology, and the National Center for Forensic Science. Orlando, FL. March 25.
2003. *Sleuthfest*. Hosted by the Florida Association of Crime Novelists. Deerfield Beach, FL. March 14-16.
2003. Forensic Entomotoxicology: A Study of the Effects of Barbiturates and Amphetamines on the larvae of *Phormia regina*. Presented at the American Academy of Forensic Sciences 56th Annual Meeting. Dallas, TX. February 16-21, 2004.
2003. *Trends in Forensic Entomology and Abroad*. American Academy of Forensic Sciences 56th Annual Meeting. Dallas, TX. February 16-21, 2004.
2003. *Crime Scene Investigations*. Hosted by the Putnam County Sheriff's Office. Palatka, FL. January 27.
2002. *Maggots and Murder*. University of Rhode Island, Department of Chemistry; and the Rhode Island State Crime Laboratory. Kingston, RI. October 21.

2002. *Basic Medicolegal Investigation of Death. Western Edition.* Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. October 11.
2002. *Pest Management and Forensic Entomology: An Odd Couple.* National Pest Control Association. Orlando, FL. October 17.
2002. *Basic Medicolegal Investigation of Death.* Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. October 11.
2002. *Field Techniques in Forensic Entomology.* Forensic Science Academy. Virginia Division of Forensic Science. Richmond, VA. October 3-4.
2002. *Advanced Forensic Science for Science Teachers.* Sponsored by the Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. July 29-August 2.
- 2002. *Forensic Science for High School Educators. Sponsored by Virginia Commonwealth University. Richmond, VA July 22-26.***
2002. *Forensic Archeology: Shortcourse for the Recovery of Human Remains.* Sponsored by the National Institute of Justice, National Center for Forensic Science, and the University of Central Florida. Orlando, FL June 17-21.
2002. *Bugs, Bones and Botany.* Hosted by the College of Medicine, Department of Pathology, University of Florida. Gainesville, FL June 10-14.
2002. *Advanced Covert Burials.* Sponsored by the Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. June 3-7.
- 2002. *10th Annual Forensic Entomology Shortcourse. Hosted by The Pennsylvania State University. University Park, PA. May 21-24.***
- 2002. *Managing Death Investigations and Sexual Assaults. Federal Bureau of Investigation, National Academy. Quantico, VA. May 20-21.***
2002. *Advanced Forensic Science and Medicine Seminar.* Sponsored by the Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. May 6-10.
2002. *Basic Medicolegal Investigation of Death.* Sponsored by the Virginia Institute of Forensic Science and Medicine. Glenn Allen, VA. April 15-19.
2002. *Medicolegal Investigations Involving Entomological Evidence.* Clemson University. Sponsored by the Department of Entomology. Clemson, South Carolina. April 10.
2002. *Multidisciplinary Applications of Forensic Biology.* Furman University. Sponsored by the Department of Biology, and the College of Arts and Sciences. Greenville, South Carolina. April 9.
2002. *Careers in Forensic Science.* Christ Church School. Sponsored by Furman University. Greenville, South Carolina. April 8
2002. FBI National Academy. *Detection of Human Remains using Biological Indicators.* Federal Bureau of Investigation, National Training Academy. Quantico, VA. March 13.
2002. *Covert Burials and Detection of Human Remains.* Instructor. Hosted by the Miami-Dade County Office of the Medical Examiner. Miami, FL. February 25- March 1.

2002. *Emerging Trends in Forensic Science*. Guest Speaker. American Academy of Forensic Sciences, annual meeting. Atlanta, GA. February 12-15.
2002. *Forensic Criminology*. Guest Speaker. Sponsored by the Department of Criminal Justice, Virginia Commonwealth University. Richmond, VA. February 5.
2001. *Managing Death Investigations*. Federal Bureau of Investigation, National Training Academy. Quantico, VA. August 21-28.
2001. *Applied Forensic Science for High School Teachers*. Instructor. Hosted by the Virginia Institute of Forensic Science and Medicine. Richmond, VA. August 6-10.
2001. *Bugs, Bones & Botany*. Instructor. Hosted by Virginia Commonwealth University. Richmond, VA. June 4-8.
2001. *Penn State 9th Annual Forensic Entomology Shortcourse*. Invited Instructor. Hosted by The Pennsylvania State University and the Frost Museum. University Park, PA May 23-26.
2001. *Medicolegal Investigations Involving Bioenvironmental Evidence*. Sponsored by the College of Health Sciences, Roanoke, VA. March 18-19.
2001. *Computer Modeling Error in Postmortem Interval Estimations*. Invited NIJ Grantee. National Institute of Justice Annual Grant Meetings. American Academy of Forensic Sciences Annual Meeting. Seattle, WA. February 19-26.
2000. *Recovery of Human Remains from Clandestine Gravesites*. Invited Instructor. Criminal Justice Institute. University of Arkansas System. Little Rock, Arkansas. October 22-24.
2000. *International Homicide Investigator Series*. Western Edition. Invited Instructor. Hosted by Hocking College. Scottsdale, Arizona. October 26.
2000. *National Conference on Science and the Law: Emerging Trends: Scientific Evidence in the Courtroom*. Panelist and Invited Speaker. Sponsored by the National Institute of Justice, U. S. Department of Justice, American Academy of Forensic Sciences, American Bar Association (Criminal Justice Section), National Center for State Courts In Collaboration with the Federal Judicial Center and the National Academy of Sciences. San Diego, CA. October 11-14.
2000. *Insects and Law*. Invited Lecturer. Virginia Polytechnic and State University, Department of Entomology Lecture Series. Blacksburg, VA. October 5.
2000. *Forensic Entomology Shortcourse*. Invited Instructor. Hosted by the Virginia State Police (Northern Command). Culpepper, VA. September 28.
2000. *Death Investigation Shortcourse*. Invited Instructor. Criminal Justice Institute. University of Arkansas System. Little Rock, Arkansas. August 24.
2000. *International Homicide Investigator Series*. Eastern Edition. Invited Instructor. Hocking College, Nelsonville Ohio. August 22.
2000. *Crime Scene Investigations II*. Invited Instructor. Metropolitan Police Institute. Miami-Dade County Police Department. Miami, FL. June 12-13.
2000. *Bugs, Bones, Botany*. Workshop Instructor and Lead Organizer. Hosted by the Metropolitan Police Training Institute. Miami, Florida. June 4-8.
2000. *8th Annual Forensic Entomology Workshop and Shortcourse*. Invited Instructor. The Pennsylvania State University, Department of Entomology. May 24-26.

2000. *Forensic Biology*. Invited Speaker for the Florida Agricultural Crime Intelligence Unit annual state meeting. Lake City, Florida. May 22.
2000. *The Expanding Role of Forensic Science in Criminal Justice*. Invited speaker for the University of Florida Criminology and Law Honor Society. Gainesville, FL. March 15. Gainesville, FL.
1999. *Bugs, Bones, and Botany*. Workshop instructor and lead organizer. Hosted by the Martin County Sheriff's Office. Jensen Beach, FL. June 7-11.
1999. *Postmortem Movement and Dispersal of *Sus scrofa* in a Florida Woodland Environment*. Presented at the American Academy of Forensic Sciences annual meeting. Orlando, FL. February 17.
1999. *Forensic Entomology Symposium*. Moderator, Pathology and Biology Section. Presented at the American Academy of Forensic Sciences annual meeting. Orlando, FL. February 17.
1999. *Estimating the Postmortem Interval through Computer Modeling*. Invited presentation: National Institute of Justice Research Grant Progress Report. Orlando, FL. February 14-15.
1999. *Entomological Evidence*. Instructor. Hosted by the Martin County Sheriff's Office and presented to the Evidence Response Team of the Federal Bureau of Investigation, Merto-Dade County Police Department. Jensen Beach, FL. July 14.
1999. *7th Annual Forensic Entomology Workshop and Shortcourse*. Invited Instructor. The Pennsylvania State University, Department of Entomology. State College, PA. May 8-10.
1998. *Aspects of Forensic Science*. Invited speaker for the University of Florida Criminology and Law Honor Society. Gainesville, FL. December 3.
1998. *Bugs, Bones, Botany*. Workshop instructor and lead organizer. Hosted by the University of Arkansas System, and the Arkansas Criminal Justice Institute. Little Rock, AR. June 7-11.
1998. *Crime Solving Bugs*. Guest lecture for General Entomology (ENY3030). College of Arts and Sciences, University of Florida. Gainesville, FL. December 1
1998. *Entomological Aspects of the Forensic Sciences*. Guest speaker. University of Florida Alumni Colloquium. Institute of Food and Agricultural Sciences. Gainesville, FL. March 31.
1998. *Computer Modeling of Insect Growth for Postmortem Interval Estimations*. Invited speaker. National Institute of Justice Research Progress Report. San Francisco, CA. February 8-9.
1997. *Insects in Legal Investigation*. Invited speaker for the Florida Homicide Investigators Annual Training Meeting. Daytona Beach, FL. September 8.
1997. *Entomology: An Integral Aspect of the Forensic Science Team*. Invited speaker for the Florida Division of the International Association for Identification annual meeting. Palm Beach, FL. October 18.
1997. *Entomological Evidence from the Death Scene*. Instructor. Instructed and reviewed evidence collected by student teams. Sponsored by the Marion County Sheriff's Office and the Central Florida Community College Criminal Justice Training Institute. Ocala, FL. October 1-2.

1997. *Entomology and Law*. Invited speaker for the University of Florida Criminology and Law Society. Gainesville, FL. February 8.
1996. *The Interpretation of Entomological Evidence*. Instructor for investigator training workshop, Naval Investigative Service, hosted by the Naval Air Station, Jacksonville. Jacksonville, FL. December 18.
1995. *Six-Legged Science*. Guest lecture for (ENY3030), University of Florida. Gainesville, FL. November 8.
1996. *Insects in Legal Investigation*. Invited speaker and instructor for the Florida Division of the International Association for Identification. District 5 & 6 meeting. Gainesville, FL. August 6.
1996. *Medicolegal Entomology*. Guest lecturer for preprofessional entomology course ENY 3030. University of Florida. Gainesville, FL.
1996. *Maggots and Murder*. Invited speaker for Honors Science and Justice (IDH 2931). Florida Museum of Natural History, University of Florida. Gainesville, FL.
1995. *Forensic Entomology*. Invited speaker for the Florida Division of the International Association for Identification annual meeting. Tampa, FL. October 26.
1995. *Criminology and Entomology*. Invited speaker for the University of Florida Criminology and Law Honor Society. Gainesville, FL. October 17.
1995. *Entomology in criminal investigations*. Guest lecturer and instructor for the Second Annual Robbery and Homicide conference. Hosted by the Jacksonville Sheriff's Office and the Office of the Medical Examiner (District 4). Jacksonville, FL. August 4.
1995. *Insects as Evidence*. Guest speaker and instructor responsible for training crime scene personnel, evidence technicians, and police detectives for Putnam, Flagler, and Alachua Counties. Hosted by the Putnam County Sheriff Office. Palatka, FL. July 19.
1995. *Entomological Evidence from the Death Scene*. Instructor. Instructed and reviewed evidence collected by student teams. Sponsored by the Florida Department of Law Enforcement and the Escambia County Agricultural Extension Agency. Pensacola, FL. April 4.
1995. *Maggots and Murder*. Guest Speaker for Honors Science and Justice (IDH 2931). Florida Museum of Natural History, University of Florida. Gainesville, FL.
1994. *Insects and Death Investigation*. Speaker/Instructor in the Entomological Society of America sponsored forensic workshop in conjunction with the ESA national annual meeting. Dallas, TX.
1994. *Forensic Entomology and the Forensic Science Team*. Instructed and reviewed evidence collection procedures conducted by student teams. Presented at the Advanced Death Investigation, hosted by the Dade County Medical Examiner Office/ Metro-Dade Police Department. Miami, FL.
1994. *Forensic Entomology Workshop*. Instructed and reviewed evidence collection procedures of student teams. Presented at the 3rd Florida Medicolegal Investigator Association Conference hosted by the District 12 Medical Examiner's Office. 1994. Sarasota, Florida.

CE Trainings attended and facilitated:

- Animal Cruelty Task Force – Florida Judicial District 5. Quarterly meeting. Ocala, FL. July 8, 2022.
- NIST – OSAC. Wildlife Forensics subcommittee. Annual Meeting. Orlando, FL. June 13-17, 2022.
- *Florida Emergency Mortuary Operations Response System*- Annual Training. Ft. Pierce, FL. May 23-27, 2022.
- Florida Wildlife Commission. 2022. *Forensic Science Liaison Officer Training*. Forensic Photography. Gainesville, FL May 10-11, 2022.
- **FEMA G386, Managing Mass Fatalities. Instructor. Tampa Bay Health and Medical Coalition. Largo, Florida. February 10-11, 2022.**
- **FEMA G386, Managing Mass Fatalities. Instructor. Richland County Coroner Office. Columbia, South Carolina. December 9-10, 2022.**
- Florida Wildlife Commission. **Forensic Science Liaison Officer Training. Crime Scene Processing. Gainesville, FL September 29-30.**
- **Managing Viral Outbreaks - Table Top Exercise. Lee County Florida. Florida Department of Health. Instructor and facilitator. January 28, 2020.**
- **FEMA G386, Managing Mass Fatalities. Instructor. Monroe County Emergency Operations Center. September 2-3, 2019.**
- **FEMA G386, Managing Mass Fatalities. Instructor. Palm Beach County Emergency Operations Center. August 8-9, 2019.**
- **FEMA G386, Managing Mass Fatalities. Instructor. Manatee County Emergency Operations Center. June 27-28, 2019.**
- **National Disaster Medical System Annual Training. Center for Domestic Preparedness. Anniston, AL. June 17-21, 2019.**
- ***Florida Emergency Mortuary Operations Response System* Annual Training. Miami, FL. March 9-12, 2019.**
- **American Academy of Forensic Sciences. *Annual Meeting*. Baltimore, MD. February 18-22, 2019.**
- **Florida Division of the International Association for Identification. *Annual Conference*. Orlando, FL. October 28-31, 2018.**
- **Forensic Educational Program Accreditation Committee. *Review of Syracuse University Forensic Science Program*. Syracuse, NY. September 17-18, 2018.**
- **Humane Society of the United States. *Animal Hoarding and Fighting workshop*. Hosted by the CSI Academy. Alachua, FL. July 28, 2018.**
- **Florida Association of Medical Examiners. Annual Conference. July 18, 2018.**

- **North American Forensic Entomology Association Annual Conference. July 23-25, 2018.**
- **11th Annual Veterinary Forensic Sciences Conference. Hosted by the International Veterinary Forensic Sciences Association. Portland, OR. May 15-18, 2018.**
- **DMORT IV Annual Training. Center for Domestic Preparedness. Anniston, AL. May 7-11, 2018.**
- ***Florida Emergency Mortuary Operations Response System Forensic Odontology- Annual Training. Orlando, FL. April 12-13, 2018.***
- ***Florida Emergency Mortuary Operations Response System Victim Information Center- Annual Training. Orlando, FL. April 11, 2018.***
- ***Florida Association of Medical Examiners Annual Conference and Business Meeting. August 2, 2017.***
- ***North American Forensic Entomology Association. Annual conference and business meeting. Davis, CA. June 8-11, 2017.***
- **DMORT IV Annual Training. Center for Domestic Preparedness. Anniston, AL. June 6-9, 2017.**
- **FEMORS Annual Full-Scale Exercise. Hosted by Miami Dade College – North Campus. Miami, FL. May 22-26, 2017.**
- **10th Annual Veterinary Forensic Sciences Conference. Hosted by the International Veterinary Forensic Sciences Association. New York, New York, May 16-18, 2017.**
- ***North American Forensic Entomology Association. Annual conference and business meeting. Orlando, FL. September 25-26. 2016.***
- ***Disaster Operational Mortuary Response System. National Disaster Medicine System. Annual Training. Center for Domestic Preparedness. Anniston, AL. August 24-29, 2015.***
- ***Florida Emergency Mortuary Operations Response System Forensic Odontology- Annual Training. Orlando, FL. June 12, 2015.***
- ***Florida Emergency Mortuary Operations Response System Victim Information Center- Annual Training. Orlando, FL. June 13, 2015.***
- **Mass Fatality Incidents for Medicolegal Professionals (TDA403). NTSB Office of Transportation Disaster Assistance. October 20-22, 2014. Ashburn, VA.**
- **Animal Crime Scene Workshop. University of Florida. Gainesville, FL. September 10-12, 2014.**
- **FEMA G386, Managing Mass Fatalities. Instructor. Franklin County Emergency Operations Center. July 21-23, 2014.**
- ***Florida Emergency Mortuary Operations Response System Victim Identification Center- Annual Training. Orlando, FL. March 15, 2014.***
- ***Florida Emergency Mortuary Operations Response System Forensic Odontology- Annual Training. Orlando, FL. March 16, 2014.***
- ***Disaster Portable Morgue Unit Training. Florida Emergency Mortuary Operations Response System. Orlando, FL. January 19.***

- **Florida Emergency Mortuary Operations Response System Victim Identification Center- Annual Training.** Orlando, FL. March 15, 2013.
- **Florida Emergency Mortuary Operations Response System Forensic Odontology- Annual Training.** Orlando, FL. March 16, 2013.
- **Operation RADAR.** Florida Department of Emergency Management. Camp Blanding, Florida National Guard. Starke, FL. February 4-8, 2013.
- **Forensic Photography.** Instructor: Lenny Wolf. Miami-Dade County Department of the Medical Examiner. Gainesville, FL. October 8-9, 2012.
- **Swift Water Rescue Training.** University of Florida Veterinary Emergency Treatment Service. Gainesville, FL. September 29, 2012.
- **North American Forensic Entomology Association. Annual Meeting.** Las Vegas, NV. July 2012.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. June 2012.
- **5th Annual Veterinary Forensic Sciences Conference.** International Veterinary Forensic Sciences Association. Miami, Florida. May 2-4, 2012.
- **International Mass Fatality Conference.** Office of the Chief Medical Examiner, New York City. New York. April 25-26, 2012.
- **DMORT Regional Training.** Disaster Mortuary Operational Response System joint training, regions VI and IV. New Orleans, LA. January 21-22, 2012.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. August 2011.
- **Disaster Mortuary Operational Response Team, Region IV, Annual Training.** Savannah, GA. January, 7-9, 2011.
- **Bloodstain Pattern Analysis.** University of Florida. Gainesville, FL. November 10-12, 2010.
- **State Agricultural Response Team. Annual Training,** Sumter County. April 24-25, 2010.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. May 2010.
- **Forensic Photography.** University of Florida. Gainesville, FL. March 18-19, 2010.
- **Large Animal Technical Rescue.** University of Florida, College of Veterinary Medicine. Gainesville, FL. March 15-16, 2010.
- **Shooting Scene Reconstruction.** University of Florida. Orlando, FL. September 23, 2009.
- **Bitemark Analysis Workshop.** University of Florida. Orlando, FL. September 24-25, 2009.
- **Disaster Portable Morgue Unit.** Florida Emergency Mortuary Operations Response System. Annual Training. Orlando, FL. May 20-23, 2009.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. May 2009.

- **ESF 8 Summit.** Nashville, TN. March 2009.
- **Forensic Odontology.** Florida Emergency Mortuary Operations Response System. Annual Training. Orlando, FL. March 28, 2009.
- **Victim Identification Center.** Florida Emergency Mortuary Operations Response System. Annual Training. Orlando, FL. March 27, 2009.
- **Southeastern Regional DMORT IV Conference.** Orlando, FL. January 23-24, 2009.
- **Supervisory Standards Training.** Florida Department of Agriculture and Consumer Services. Withlacoochee, FL. August 2008.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. May 2008.
- **National Disaster Medical System Training Summit.** Nashville, TN. March 2008.
- **Radioisotope Ingestion Pathway Exercise.** St. Lucie Nuclear Power Plant. Hosted by Florida Power Corporation. St. Lucie, FL. January 2008.
- **National Disaster Medical System, DMORT Region IV Annual Training.** Nashville, TN. August 2007.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. May 2007.
- **National Disaster Medical System, DMORT Region IV and VI Annual Training.** Louisville, KY. August 2006.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. March 2006.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. March 2005.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando, FL. July 2004.
- **Challenging the Organizational Culture: Proactive Leadership Strategies for Public Safety- County of Volusia.** Daytona Beach, FL. 2004.
- **Chief Executive Seminar- 35th Session.** Florida Criminal Justice Institute, Florida Department of Law Enforcement. Wakulla Springs, FL. December 8-11, 2003. November 3-6, 2003, and January 26-29, 2003.
- **Florida Emergency Mortuary Operations Response System- Annual Training.** Orlando FL. July 2003.
- **Handling of Disaster Victim Human Remains- Preparedness Training.** Florida Department of Health. Orlando, FL. October 2004.

CE Courses Organized and Directed

Created, organized, and instructed:

- **Animal Crime Scenes – Annual (24 CE)**
- **Animal Fighting Workshop - Annual (8 CE)**

- **Bloodstain Pattern Recognition - Annual (24 CE)**
- **Bugs, Bones, and Botany – Annual (40 CE)**
- **Forensic Pathology – Annual (24 CE)**
- **Forensic Photography – Annual (24 CE)**
- **Shooting Reconstruction – Annual (24 CE)**

Interviews, Internet appearances, Panel Discussions, Media Events

- *Forensic Entomology*. It's About Crime Podcast. January 14, 2022.
- *Plant Crimes: How a botanist nearly solved the Lindbergh baby kidnapping*. Plant Crimes Podcast. Ellen Airhart. September 30, 2019.
- *UF Here to Find Ways to Protect Pooches in Cars*. Lake City Reporter. August 27, 2019.
- *Wildlife Forensic Sciences*. WCJB CBS Affiliate. Gainesville, FL. November 29, 2018
- *Veterinary Forensic Pathology*. *Animal Airwaves*. WRUF FM/AM. Gainesville, FL. October 26, 2018.
- *Weird Animal Question of the Week*. Coffin Flies, Corpse-Eating Beetles, and Other Bugs with Gruesome Jobs. From food to forensics, bugs work on our behalf. *National Geographic*. June 24, 2017.
- *State wildlife officers, UF team up on animal forensics to pursue violators*. The Gainesville Sun. May 22, 2021.
- *Plant Crimes: How a botanist nearly solved the Lindbergh baby kidnapping*. Plant Crimes Podcast. Ellen Airhart. September 30, 2019.
- *UF Here to Find Ways to Protect Pooches in Cars*. Lake City Reporter. August 27, 2019.
- *Wildlife Forensic Sciences*. WCJB CBS Affiliate. Gainesville, FL. November 29, 2018
- *Veterinary Forensic Pathology*. *Animal Airwaves*. WRUF FM/AM. Gainesville, FL. October 26, 2018.
- *Weird Animal Question of the Week*. Coffin Flies, Corpse-Eating Beetles, and Other Bugs with Gruesome Jobs. From food to forensics, bugs work on our behalf. *National Geographic*. June 24, 2017
- *Forensic Entomology*. *Ocala Style Magazine*. October 2016.
- *Pulse Nightclub response and FEMORS*. WCJB. Gainesville, FL. June 13, 2016.
- *FEMORS Response to Orlando Pulse Nightclub*. WFLA. Gainesville, FL June 13, 2016
- *Pulse Nightclub Response by FEMORS*. WGFL. Gainesville, FL June 16, 2016.
- *FEMORS response to Pulse Nightclub Shooting*. Gainesville Sun. June 16, 2016.
- *Veterinary Forensic Sciences*. WUFT FM 89.1. PBS affiliate. Gainesville, FL April 25, 2015.
- *Animal Crime Scenes*. WCJB TV 20 CBS affiliate. Gainesville, FL September 12, 2014.
- *Pedro Bravo Trial Day 8 and the Role of Insects in the Case*. WCJB TV 20 CBS affiliate, Gainesville, Florida. August 13, 2014.
- *A New Veterinary Forensics Program Offers Formal Training to Professionals*. *VetStreet*. May 5, 2014. www.vetstreet.com
- *Forensic Entomology*. *ForensicWeek*. Hosted by the University of Maryland. March 27, 2014. College Park, MD.
- *New Vet Program Helps Prevent Animal Cruelty*. *Independent Florida Alligator*. January 14, 2014.
- *Animal Crime Scenes*. WUFT, Channel 5. PBS affiliate. Gainesville, FL September 13, 2013.
- *Anti-Animal Cruelty Workshop*. WINK, Channel 2. CBS affiliate. Ft. Myers, FL. April 18, 2012.
- *Animal Airwaves*. WUFT AM/FM. PBS. University of Florida. December 15, 2012.
- *The Forensic Examiner*. Summer Issue 2012. American College of Forensic Examiners International. Springfield, MO. June 2012.
- *The Mission Has Been Accepted*. *Animal ER: Special Edition*. WICC 600 AM. Dr. Don DeForge. July 17, 2011

- *Defense Bug Expert Testifies in Casey Anthony Trial.* CNN Headline News – Nancy Grace. June 17, 2011.
- *Insect Experts Testify in Casey Anthony Murder Trial.* CNN Headline News – Nancy Grace. June 13, 2011.
- *Haiti: A One Year Retrospective.* WRUF FM/AM. Gainesville, FL January 12, 2011
- *All Ears For CSI Expert.* New Zealand Herald News. Oct 10, 2010.
- *CSI for Animals.* New Zealand TV One. Close Up. October 4, 2010.
- *SPCA Learns CSI Skills to Catch Abusers.* New Zealand TV One. October 4, 2010.
- *SPCA Goes CSI.* New Zealand TV One. October 4, 2010.
- *RSPCA Turns CSI.* ABC Brisbane (612). Australia. September 27, 2010
- *Haiti Earthquake: A six-month retrospective.* WRUF FM/AM. Gainesville, FL. July 19, 2010.
- *The Haiti Earthquake. Independent Florida Alligator.* Gainesville, FL. February 18, 2010.
- *NDMS Haiti Response.* WRUF FM/AM. Gainesville, FL. February 16, 2010
- *Talk Forensics.* www.talkforensicsradio.com Guardian Digital Forensics. February 7, 2010.
- *Program teaches forensics investigators to unearth criminal clues from animal graves.* St. Petersburg Times. June 27, 2009.
- *Animal Forensics.* WCJB TV 20. Gainesville, FL. June 19, 2009.
- *Animal Investigation.* Gainesville Sun. June 19, 2009.
- *UF animal forensics workshop begins.* Gainesville Sun. June 18, 2009
- *UF, ASPCA to team up to prosecute crimes against animals.* Gainesville Sun. April 16, 2009
- *Battle of the Experts: Can forensic experts pinpoint the time of death to a certain day?* CNN Headline News – Nancy Grace. March 17, 2009
- *Can Forensic Experts Pinpoint the Time of Death?* CNN Headline News. January 10, 2009.
- *Forensic Evidence in the Caylee Anthony Case.* WKMG, Orlando, Florida. January 9, 2009.
- *Forensic Evidence Pinpoints Time of Death.* CNN Headline News – Nancy Grace. New York, New York. January 9, 2009.
- *CSI's Processing the Anthony Home.* CNN Headline News – Nancy Grace. New York, New York. December 23, 2008.
- *Caylee Anthony – New Evidence.* CNN Headline News – Nancy Grace. New York, New York. December 18, 2008.
- *Forensic Investigation of Caylee Anthony.* WKMG Local 6. Orlando, Florida. December 17, 2008.
- *The Case of Caylee Anthony.* WRUF AM/FM. Gainesville, Florida. December 16, 2008
- *CSI: The Experience.* CBS Television Productions and Ft. Worth Science Museum.
- *Best Evidence- Cattle Mutilations.* Produced by Creative Differences for The Discovery Channel.
- *Insects from Hell.* Produced by Steel Spyda Productions for National Geographic. Original air date, January 2005.
- *Web of Clues.* Produced by New Dominion Productions for The Discovery Channel. Original Air Date, March 1998.
- *Crime Scene Insects.* National Public Radio (NPR). Network feed from WPSU (FM) and WPSX (TV 3). Penn State Public Broadcasting.

Creative Works, Social Media or Internet Projects not included elsewhere

Websites created and maintained:

- **dmort4.com**
- **forensic-entomology.com**
- **forensicentomologist.com**
- **ivfsa.org**
- **harvardpolicescience.org**
- **nafea.net**
- **cofse.org**
- **ifma.org**

Peer Reviewed publications

- 1). Pickering, Robert, **Byrd, J.H.**, and Sutton, L.K. West Mexico: An archaeo-entomological perspective. *Journal of Forensic Science*. Submitted.
- 2). Weidner, L.M., **Byrd, J.**, Sutton, L. and Hans, K.R. 2021. Forensic Entomology: An introduction to the literature of the United States. *Wiley Interdisciplinary Reviews: Forensic Science*. Accepted
- 3). Jelinke, H.F, Mouse, M., Alefishat, E., Osman, W., Spence, I., Dengpan, B., Feng, S., **Byrd, J.**, Magni, P., Sahibzada, S., Guan, T., and Alsafar, A. 2021. Evolution, Ecology and Zoonotic Transmission of SARS-CoV-2: A Review. *Frontiers in Veterinary Science: Veterinary Infectious Diseases*.
- 4). **Byrd, J.H.** and Sutton, L.K. 2020. A Review of the Forensic Entomology Literature in the South-eastern United States. *Wiley Interdisciplinary Reviews: Forensic Science*. DOI: 10.1002/wfs2.1411
- 5). Sutton, L.K., and **Byrd, J. H.** 2020. Introduction to Postmortem Interval Estimation. *Wiley Interdisciplinary Reviews: Forensic Science*. e1373. John Wiley & Sons. Hoboken, NJ.
- 6). Hvozdoitch, J., **J. Byrd**, L. Farina, and B. Goldberger. 2020. *The Detection of Phenobarbital in Euthanized Dogs*. *Journal of Veterinary Forensic Sciences*. Vol 1(1) 16-18. Gainesville, FL.
- 7). **Byrd, J.H.** and Sutton, L.K. 2019. Forensic Entomology for the Investigator. *Wiley Interdisciplinary Reviews: Forensic Science*. John Wiley & Sons. Hoboken, NJ. e1370
- 8). Collins, M.K., Carmichael, R.H., **Byrd, J.H.**, and Deming, A.C. 2020. *Suspected broadhead arrow injuries in two common bottlenose dolphins (Tursiops truncatus) along the Alabama coast*. *Journal of Marine Mammal Science*. 20:1-7
- 9). Sutton, L, and **J. Byrd**. CSI Culture. 2017. The Evolution and Influences of Forensic Science. *Forensic Research and Criminology International Journal*. Vol. 4, Issue 3. 76-77
- 10). **Byrd, J.**, N. Whitling. 2017. Animal CSI: Forensic Scientists Catch Dog and Cat Abusers. *Scientific American*. January 2017. 32-39
- 11). Brundage, A. and **J. Byrd**. 2016. Forensic Entomology in Animal Cruelty Cases *Vet Pathol September 2016* 53 (5): 898-909
- 12). Tomberlin, J. K., **Jason H. Byrd**, John R. Wallace, and M. Eric Benbow. 2012. Assessment of Decomposition Studies Indicates Need for Standardized and Repeatable Research Methods in Forensic Entomology. *Journal of Forensic Research*. OMICS Publishing Group. Volume 3: Issue 5.
- 13). Tomberlin, J. K., A. M. Albert, and **J. H. Byrd**. 2006. Interdisciplinary Workshop Yields New Entomological Data for Forensic Sciences: *Chrysomya rufifacies* (Diptera: Calliphoridae) Established in North Carolina. *Journal of Medical Entomology*. 43(6): 1287-1288.
- 14). **Byrd, J. H.** and Jon C. Allen. 2001. Growth and Development of *Phormia Regina* (Diptera:

Calliphoridae):

- Interpreting Postmortem Interval Determinations Based on Entomological Evidence. *Forensic Science International*. Vol. 120. 79-88.
- 15). Wells, J. D., **J. H. Byrd**, and Tarek I. Tantawi. 1999. Key to the Third Instar Chrysomyinae (Diptera: Calliphoridae) from Carrion in the Continental USA. *Journal of Medical Entomology*. Vol. 36:638-641.
 - 16). **Byrd, J. H.**, and J. F. Butler. 1998. The Effects of Temperature on *Sarcophaga haemorrhoidalis* (Diptera: Sarcophagidae) Development. *Journal of Medical Entomology*. 35(5):694-698.
 - 17). **Byrd, J. H.** & J. F. Butler. 1997. Effects of temperature on *Chrysomya rufifacies* (Diptera: Calliphoridae) development. *Journal of Medical Entomology* 34(3): 353-358.
 - 18). **Byrd, J. H.** & J. F. Butler. 1997. Effects of temperature on *Cochliomyia macellaria* (Diptera: Calliphoridae) development. *Journal of Medical Entomology*. 33(6): 901-905.
 - 19). **Byrd, J. H.**, and W. F. Hamilton. 1997. Underwater Cave Diving Fatalities in Florida: A Review and Analysis. *Journal of Forensic Science* 42(5):807-811.

Non Peer-Reviewed Publications

- 1). Parker, M.A., Sneider, S., Smithy, S., Benecke, M., and **Byrd, J.H.** 2019. Entomological Alteration of Bloodstain Evidence. *Evidence Technology Magazine*. Volume 17, Number 3 – Fall 2019.
- 2). **Byrd, J. H.** and Sutton, L.K. 2019. Forensic Entomology for the Investigator. *FDIAI News*. Quarterly Issue. July-September 2019.
- 3). **Byrd, J.H.** 2007. *Entomological Evidence at Death Scenes*. Field Manual. Trace Evidence Section. United States Army Criminal Investigation Laboratory. Ft. Gillem, GA.
- 4). Tomberlin, J. K., J. R. Wallace, and **J. H. Byrd**. 2006. Forensic Entomology: Myths Busted! *Forensic Magazine* October-November, 2006.
- 5). **Byrd, J.H.** 2011. Fingerprints. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois
- 6). **Byrd, J.H.** 2011. Forensic Pathology. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois
- 7). **Byrd, J.H.** 2011. Forensic Entomology. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois
- 8). **Byrd, J.H.** 2011. Inquest. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois
- 9). **Byrd, J.H.** 2011. Medical Examiner. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois
- 10). **Byrd, J.H.** 2011. Coroner. *World Book Encyclopedia*. **World Book, Inc.** Chicago, Illinois

Books

- 1). Ross, A.H., and Byrd, J.H. (eds). 2020. *Methodological and Technological Advances in Forensic Science: Application and Case Studies*. Elsevier. Amsterdam, Netherlands. *Accepted*
- 2). **Byrd, J. H.**, Bradley, N., and Norris, P.(eds) 2020. *Veterinary Forensic Sciences*. Taylor and Francis, Inc.

Boca Raton, FL

- 3). **Byrd, J. H.**, and Tomberlin, J. K.(eds) 2020. *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd. Ed. Taylor and Francis, Inc. Boca Raton, FL.
- 4). Hall, D.W., and **Byrd, J.H.** (eds). 2012. *Forensic Botany: A Practical Guide*. Wiley-Blackwell. D.W. Hall and J.H. Byrd (eds). July 2012.
- 5). Hall, D.W., and **Byrd, J.H.** 2011. *Wildflowers of Florida and the Southeastern United States*. Four Colour. Louisville, KY.
- 6). **Byrd, J. H.**, and J. L. Castner. 2009. *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.
- 7). **Byrd, J. H.** and J. L. Castner. 2000. *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 1st Ed. CRC Press, Inc. Boca Raton, FL.
- 8). Castner, J. L., and **J. H. Byrd**. 2000. *Forensic Insect Identification Cards*. Feline Press. Gainesville, FL

Chapters in Books

- 1). 2022 **Byrd, J.H.** The role of the Victim Information Center (VIC). In: *Disaster Victim Identification in the 21st Century A US Perspective*. Eds. John A. Williams, Victor W. Weedn, and Douglas H. Ubelaker. John Wiley & Sons. UK.
- 2). **Byrd, J.H.**, and Brundage, A. 2021. Forensic Entomology. In: *Veterinary Forensic Sciences. 1st edition*. CRC Press, Inc. Boca Raton, FL
- 3). Anderson, G., and **Byrd, J.H.** 2020. Wildlife Forensic Entomology. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL
- 4). Parker, M.A., Sneider, S., Smithey, S.A., Benecke, M., and **Byrd, J.H.** 2020. Entomological Alteration of Bloodstain Evidence. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL
- 5). Walsh-Haney, H.A., Galloway, A., and **Byrd, J.H.** 2020. Recovery of Anthropological, Botanical, and Entomological Evidence from Buried Bodies and Surface Scatter. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL
- 6). **Byrd, J.H.**, and Tomberlin, J.K. 2020. Laboratory Rearing of Forensic Insects. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL
- 7). Sanford, M., **Byrd, J.H.**, Tomberin, J.K., and Wallace, J.R., 2020. Collection of Entomological Evidence During Death Investigations. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL

- 8). **Byrd, J.H.**, and Tomberlin, J.K. 2020. A Guide to Insects of Forensic Importance. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 3rd Ed. CRC Press, Inc. Boca Raton, FL

- 9). Brundage, A., **J.H. Byrd**, and L.K. Sutton. 2017. Forensic Entomology. In: *Manual of Forensic Science: An International Survey*. Edited by Anna Barbaro. CRC Press. Boca Raton, FL. ISBN 9781498766302.

- 10). Sutton, L. and **J. Byrd**. 2016. Age Determination and Closure Rates in Canines and Felines. *Veterinary Pathology*. 1st Edition.

- 11). Wallace, J.W., **J.H. Byrd**, H.N. LeBlanc, V.J. Cerwenka. 2015. North America. In: *Forensic Entomology: International Dimensions and Frontiers*. CRC Press. ISBN: 978-1-4665-7240-9

- 12). Hall, D.W. and **J. H. Byrd**. 2015. Forensic Botany. In: *Forensic Sciences*. Cyril Wecht, MD. ISBN: 978-0-8205-1313-3. Lexis Nexis.

- 13). **Byrd, J. H.** and L. K. Sutton. 2011. Defining a Crime Scene and Physical Evidence Collection. *Wildlife Forensics*. Wiley-Blackwell.

- 14). Hall, D.W. and **J. H. Byrd**. 2011. Botanical Evidence: Documentation, Collection, and Analysis. *Forensic Botany: A Practical Guide*. Wiley-Blackwell. D.W. Hall and J.H. Byrd (eds).

- 15). **Byrd, J. H.**, and M. R. Peace. 2011. Entomotoxicology: Drugs, Toxins and Insects. *Forensic Chemistry Handbook*. Lawrence Kobilinsky (ed.) Wiley-Blackwell. Hoboken, NJ.

- 16). Parker, M. A., M. Benecke, **J. H. Byrd**, R. Hawkes, and R. Brown. 2009. Entomological Alteration of Bloodstain Evidence. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.

- 17). Walsh-Haney, H. A., A. Galloway, and **J. H. Byrd**. 2009. Recovery of Anthropological, Botanical, and Entomological Evidence from Buried Bodies and Surface Scatter. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.

- 18). **Byrd, J. H.**, and J. K. Tomberlin. 2009. Laboratory Rearing of Forensic Insects. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.

- 19). **Byrd, J. H.**, W. D. Lord, J. R. Wallace, and J. K. Tomberlin. 2009. Collection of Entomological Evidence during Legal Investigations. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.

- 20). **Byrd, J.H.** and J. L. Castner. 2009. Insects of Forensic Importance. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. 2nd. Ed. CRC Press, Inc. Boca Raton, FL.

- 21). Tomberlin, J.K, J. R. Wallace, and **J. H. Byrd**. 2008. *Forensic Investigations: Inside the Yellow Tape*. Ed. Lum Farr. Hayden McNeil. Pp. 311-327.

- 22). Tomberlin, J.K., Wallace, J.R., and **J. H. Byrd**. 2007. Identification, Collection, and Preservation of Entomological Evidence. In: *Forensic Entomology: New Trends and Technologies*. Springer 299-313.
- 23). Lord, W.D., M. L. Goff, and **J. H. Byrd**. 2002. Insects in the Investigation of Violent Crime. In: *Managing Death Investigation*. Federal Bureau of Investigation, United States Department of Justice. FBI National Academy. 155-164.
- 24). Goff, M. L., W.D. Lord, and **J. H. Byrd**. 2002. Entomotoxicology. In: *Managing Death Investigation*. Federal Bureau of Investigation, United States Department of Justice. FBI National Academy. 165-174.
- 25). **Byrd, J. H.** and Allen, J.A. 2000. Accumulated Degree Hour Development of *Phormia regina* (Diptera: Calliphoridae) and its use in Postmortem Interval Determination. *Forensic Science International*.
- 26). **Byrd, J. H.** 2000. Laboratory Rearing of Forensic Insects. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc. Boca Raton, FL.
- 27). **Byrd, J. H.** and J. C. Allen. 2000. Computer Modeling of Insect Growth and Its Application to Forensic Entomology. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc.
- 28). **Byrd, J. H.** and J. L. Castner. 2000. A Photographic Guide to Insects of Forensic Importance. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc.
- 29). Brown, R., M. A. Parker, R. Hawkes, and **J. H. Byrd**. 2000. Entomological Alterations of Blood Spatter Analysis. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc. Boca Raton, FL.
- 30). Galloway, A., H. A. Walsh-Haney, **J. H. Byrd**. 2000. Recovering Surface Scatter and Buried Bodies: The Associated Anthropological, Botanical, and Entomological Evidence. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc. Boca Raton, FL.
- 31). Haskell, N. H., W. D. Lord, and J. H. Byrd. 2000. Collection of Entomological Evidence During Death Investigations. In: *Forensic Entomology: The Utility of Arthropods in Legal Investigations*. CRC Press, Inc.

INTERNET PUBLICATIONS:

- 1). Byrd, J. H. 1998. *Chrysomya rufifacies* (Macquart) (Diptera: Calliphoridae), The Hairy Maggot Blow Fly. *University of Florida Featured Creatures*. EENY-23. http://gnv.ifas.ufl.edu/~insect/livestock/hairy_maggot_blow_fly.htm
- 2). Byrd, J. H. 1998. *Cochliomyia macellaria* (Fabricius), The Secondary Screwworm. *University of Florida Featured Creatures*. EENY-22. http://gnv.ifas.ufl.edu/~insect/livestock/secondary_screwworm.htm

Poster Presentations

National/International Meetings

- 1). Pham, A.T., Dery, S.L., Walsh- Haney, H.A., **Byrd, J.H.**, and I. Bartoszek. 2019. Time to Skeletonization (TTS): *Dermestes maculatus* (De Geer) Skin/hide beetles and skeletonization on *Python bivittatus*

(Kuhl)

Burmese python remains. American Academy of Forensic Sciences annual meeting. Baltimore, MD. Feb 20.

- 2). Hvozdoitch, J., **J. Byrd**, L. Farina, and B. Goldberger. 2017. *The Detection of Phenobarbital in Euthanized Dogs*. 10th Annual Veterinary Forensic Sciences Association Annual Conference. Hosted by the International Veterinary Forensic Sciences Association. NY, NY. May 16.
- 3). Clark, A.M., **Byrd, J.H.**, and Underkoffler, S. 2017. Things That Were Not (And Were Not As Expected).
Presented at the Society for Wildlife Forensic Science meeting, Edinburgh, Scotland, Jun 5-9.
- 4). Sutton, L.K., and **J. H. Byrd**. 2012. *Sex Determination from Craniometric Measurements from Canis familiaris*. American Academy of Forensic Sciences, Annual Meeting. Atlanta, Georgia

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CURRENT POSITION

Professor, Department of Emergency Medicine
Executive Vice Chair of Academic Affairs and Faculty Development
Research Director, Center for Experiential Learning and Simulation
University of Florida
Gainesville, Florida

EDUCATION

- 1989-1992 BA, Rutgers College, Rutgers University, The State College of New Jersey, New Brunswick, NJ
- 1992-1999 MD, University of Michigan Medical School, Ann Arbor, MI**

POSTGRADUATE TRAINING

- 2020 University of Florida Clinical and Translational Science Institute Mentor Academy
- 2010-2011 Fellow, Patient Safety Leadership Fellowship, AHA-National Patient Safety Foundation
- 1999-2003 Resident, Emergency Medicine, University of Cincinnati Department of Emergency Medicine, Cincinnati, OH
- 1994-1997 Howard Hughes Medical Student Research Fellow, University of Michigan Medical School, Department of Pediatrics / Hematology and Oncology, Ann Arbor, MI

ACADEMIC APPOINTMENTS

- 2021-present Clinical Professor, Department of Emergency Medicine, University of Florida, Gainesville, FL
- 2021-present Affiliate Professor, Department of Industrial and Systems Engineering, University of Florida, Gainesville, FL
- 2019-2021 Associate Professor, Department of Emergency Medicine, University of Florida, Gainesville, FL

- 2018-2019 Associate Professor, Department of Emergency Medicine, University of Florida School of Medicine, Jacksonville, FL
- 2011-2017 Associate Professor (Physician-Scientist), Division of Emergency Medicine, University of Washington School of Medicine, Seattle, WA
- 2011 Associate Professor (Clin-Ed) Wayne State University School of Medicine, Academic Support and Teaching & Department of Emergency Medicine
- 2006-2011 Assistant Professor (Clin-Ed), Wayne State University/Detroit Medical Center, Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI
- 2003-2006 Clinical Instructor, Wayne State University/Detroit Medical Center, Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI

PROFESSIONAL ACADEMIC POSITIONS

- 2022- Executive Vice Chair of Academic Affairs and Faculty Development, Department of Emergency Medicine, University of Florida, Gainesville, FL
- 2021-2022 Vice Chair of Faculty Development, Department of Emergency Medicine, University of Florida, Gainesville, FL
- 2020-present Director of Simulation Fellowship, Center for Experiential Learning and Simulation, College of Medicine, University of Florida, Gainesville, FL
- 2019-present Director of Research, Center for Experiential Learning and Simulation, College of Medicine, University of Florida, Gainesville, FL
- 2018-2019 Director, Safety Science Research, Department of Emergency Medicine, University of Florida – Jacksonville, Jacksonville, FL
- 2013-2017 Associate Director for Education, UW Medicine Center for Scholarship in Patient Care, Quality, and Safety, University of Washington School of Medicine, Seattle, WA
- 2011-2017 Director of Medical Simulation, Division of Emergency Medicine, University of Washington School of Medicine, Seattle, WA
- 2008-2011 Director of Healthcare Simulation and Patient Safety, Wayne State University School of Medicine, Detroit, MI
- 2003-2008 Assistant Program Director, Wayne State University/Detroit Medical Center, Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI

HOSPITAL POSITIONS

- 2019-present Attending Physician, Emergency Medicine, University of Florida-Shands, Gainesville, FL
- 2018-2019 Attending Physician, Emergency Medicine, University of Florida Health – Jacksonville, Jacksonville, FL
- 2011-2017 Attending Physician, Emergency Medicine, Harborview Medical Center, Seattle, WA

- 2003-2011 Staff Physician, Emergency Department, Detroit Receiving Hospital, Detroit, MI
- 2003-2004 Staff Physician, Emergency Department, Sinai-Grace Hospital, Detroit, MI

OTHER CLINICAL RESPONSIBILITIES

- 2004-2011 Physician Team, Comerica Park Medical Emergency Services, Detroit, MI
- 2000-2003 AirCare Flight Physician, Department of Emergency Medicine, University of Cincinnati, Cincinnati, OH

BOARD CERTIFICATION

- 2007, 2017 Diplomate, American Board of Emergency Medicine (ABEM)

CURRENT LICENSES TO PRACTICE

- 2018 Florida State Medical License

HONORS AND AWARDS

- 2022 Fellow, Hedwig van Ameringen Executive Leadership in Academic Medicine (ELAM) Program
- 2020 Fellow, Society for Simulation in Healthcare Simulation Academy
- 2016 Society for Academic Emergency Medicine Simulation Academy Founder's Award
- 2016 Academy for Women in Academic Emergency Medicine Award for Outstanding Achievement in Research
- 2016 Mentorship Award for Recognition of Outstanding Mentorship, University of Washington Department of Medicine
- 2013 Recognized in *Academic Emergency Medicine*, Critical Appraisal of Emergency Medicine Education Research: The Best Publications of 2013
- 2010-2011 Fellow, National Patient Safety Foundation Patient Safety Leadership Fellowship
- 2009 Association of American Medical College Early Career Women Faculty, Professional Development Seminar, invited attendee
- 2005 Governor's Service Award, Hurricane Katrina Search and Rescue Deployment School
- 1999 Society for Academic Emergency Medicine Award for Academic Excellence
- 1999 Dean's Award for Excellence in Research, University of Michigan Medical School
- 1996 Student Award, The American Society for Hematology / University of Michigan Medical School

1996 Student Research Award, The Society for Pediatric Research / University of Michigan Medical School

1996 National Institutes of Health Graduate Research Assistant Award

1994-1996 Howard Hughes Medical Institute Medical Student Research Fellowship (continued support awardee)

1992 Merck Medical Student Research Fellow

1992-1999 Opportunity Awards Program Tuition Scholarship, University of Michigan Medical School

1988-1989 Air Force ROTC Scholarship / University of Notre Dame

PROFESSIONAL ORGANIZATIONS

Human Factors and Ergonomics Society

2021-2022 Co-Chair, Simulation and Education Track, Annual Meeting

2020-present Member

Society for Academic Emergency Medicine Simulation Academy (formerly Task Force)

2012-present Member

2011-2014 Judge, SAEM Simulation Academy SimWars Competition at Annual Meeting of the American College of Emergency Physicians

2011-2012 Past Chair

2009-2011 Inaugural Chair

2004-2009 Invited Member, Society of Academic Emergency Medicine Medical Simulation Task Force / Committee

National Patient Safety Foundation

2009-2016 Member

Emergency Medicine Patient Safety Foundation

2009-2012 Member

Society for Simulation in Healthcare

2020-present Simulation Academy Fellow

2011-2015 Site Reviewer, Society for Simulation in Healthcare Council for Accreditation of Healthcare Simulation (*20 selected out of 75*)

2007-2010 Secretary, Emergency Medicine Interest Group

2005-present Member

Society for Academic Emergency Medicine (SAEM)

2010 Research Forum Moderator, Society for Academic Emergency Medicine

1999-present Member

American College of Emergency Physicians (ACEP)

2009 Research Forum Moderator, American College of Emergency Physicians Scientific Assembly

1999-present Member

EDITORIAL BOARD RESPONSIBILITIES

2021- 2022	Chair, <i>Journal of the American College of Emergency Physicians (JACEP) Open</i> Assistant Editor training program
2021- 2022	Senior Decision Editor, <i>Journal of the American College of Emergency Physicians (JACEP) Open</i>
2019-2021	Decision Editor, <i>Journal of the American College of Emergency Physicians (JACEP) Open</i>
2018	Guest Editor, <i>Academic Emergency Medicine</i>
2015-present	Associate (Decision) Editor, <i>Simulation in Healthcare</i>
2013-2015	Editorial Board Member, <i>Simulation in Healthcare</i>
2013-2015	Deputy Editor, <i>Teaching and Learning in Medicine</i>
2008-present	Peer Reviewer, <i>Annals of Emergency Medicine</i>
2005-present	Peer Reviewer, <i>Simulation in Healthcare</i>

COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

Grant Review

2020	Special Emphasis Panel Invited Reviewer, Agency for Healthcare Research & Quality, <i>Novel High Impact Studies Evaluating Health System and Health Care Professional Responsiveness to COVID 19</i>
2016-2019	Standing Member, Agency for Healthcare Research and Quality Health Safety and Quality Research (HSQR) Study Section
2015	Ad Hoc Grant Reviewer, Department of Defense, Defense Medical Research and Development Program, Natural User Interface Award
2015	Ad Hoc Grant Reviewer, US Army Medical Research Materiel Command Medical Training and Health Information Sciences Research Program
2015	Special Emphasis Panel Invited Reviewer, Agency for Healthcare Research & Quality, Making Health Care Safer in Ambulatory Care Settings and Long Term Care Facilities
2012, 2014	Ad Hoc Grant Reviewer, Society for Simulation in Healthcare Research Grant Program
2009	Ad Hoc Grant Reviewer, Organization for Scientific Research, Division of Social Sciences

National Committees

2015-2017	Co-Chair, Catalyzing System Change Through Healthcare Simulation: Systems, Competency, and Outcomes, Academic Emergency Medicine 2017 Consensus Conference
2002	Emergency Medical Technician- Basic Item Writing Committee member, National Registry of Emergency Medical Technicians, Columbus, Ohio

University Committee Assignments

- 2021- Elected member, University of Florida College of Medicine Promotions and Tenure Committee
- 2021- Invited member, University of Florida KL2 Advisory Committee. Committee selects and advises junior investigators for the KL2 program in clinical translational research
- 2020 – 2021 Invited Member, University of Florida Fairness and Equity Task Force. Represented the College of Medicine in a university-wide committee to address the development of guidelines and models of fairness and equity in assessment

CLINICAL / QUALITY IMPROVEMENT ACTIVITIES

- 2020 In situ simulation system assessment to improve COVID-19 safety; UF Health Shands Emergency Department
- 2017-2018 Trauma process improvement through leadership training, UW Medicine Harborview Medical Center
- 2014-2017 University of Washington Certificate Program in Patient Safety and Quality
- Developed and implemented institution-wide training program for UW Medicine system. Program consists of 5 day-long workshops over a one-year period. Curriculum focused on developing the knowledge and skills to effectively serve in a leadership role in the area of healthcare quality and safety.
- 2011-2015 Clinical Quality Improvement Committee, University of Washington Division of Emergency Medicine

DEPARTMENTAL LEADERSHIP

- 2021-present Chair, Emergency Medicine Promotion & Tenure Committee
- 2021-present Chair, Emergency Medicine Recruitment Committee
- 2021-present Member, Emergency Medicine Executive Committee

GRANTS

*denotes mentee as PI

Current

- | | | |
|---|----------------|-----------|
| [W81XWH21P0013] | Militello (PI) | 2022-2024 |
| Defense Health Agency | | \$334,762 |
| Phase 2: Developing a Just-in-time Refresher Trainer for Advanced Life Support in Austere Regions (TALSAR) | | |
| <i>Design, develop, demonstrate, and evaluate the effectiveness of a mobile screen based virtual patient simulator for just-in-time refresher training for emergency medical care in austere environments</i> | | |
| Role: Site PI | | |
| [2026518] | Akali (PI) | 2021-2022 |
| National Science Foundation | | \$103,730 |
| Mapping the Human-Technology Frontier to Improve Trauma Care: A Transdisciplinary Approach to | | |

Identify Opportunities, Challenges, and Risks

The overall goal of this project is to understand the sociotechnical aspects of trauma care and identify targets for process improvement.

Role: Co-PI

[no number] Fernandez (PI) 2020-2021
W. Martin Smith Patient Safety Award \$24,853
SaFE CARE Simulation for Effective COVID Assessment and Response
The overall goal of this study is to apply resilience engineering to identify system and unit-based safety threats due to COVID-19.
Role: PI

[K23GM144802-01] *Black (PI) 2021-2025
NIH National Institute of General Medical Sciences \$180,244
Informing the Emergency Care of Septic Shock Patients: A Novel Application of Data-Driven Analytics
Investigate septic shock heterogeneity and pharmacogenetic variation that may influence response to septic shock therapies and disparities in outcomes
Role: Co-mentor

[KL2TR001429] *Gutman (PI) 2021-2023
NIH National Center for Advancement of Translational Science \$149,966
Disparities in the Management of Febrile Infants at Low-Risk for Invasive Bacterial Infection
Mixed methods study designed to understand health disparities in the emergency management of febrile infants and to create a conceptual framework for future research and implementation efforts
Role: Primary Mentor

[no number] Bosch (PI) 2020-2021
Academy of Architecture for Health Foundation \$30,000
More than they bargainED for: Responsive design to address violence against healthcare professionals in the emergency department setting
Identify both design-related and sociological antecedents to Type II violence in the emergency department setting
Role: Co-investigator

[W81XWH1810089] Fernandez (PI) 2018-2021
Department of Defense/USAMRMC \$1,425,523
Translating Military Simulation-based Trauma Team Research into Outcomes: LEADing Effective Resuscitations (LEADER)
The goal of the project is to improve training and military readiness by providing a model and roadmap for translating simulation-based trauma team training to meaningful patient-level outcomes.
Role: PI

Past

[W81XWH21P0013] Militello (PI) 2021
Defense Health Agency \$75,000
Phase 1: Developing a Just-in-time Refresher Trainer for Advanced Life Support in Austere Regions (TALSAR)
Design, develop, demonstrate, and evaluate the effectiveness of a mobile screen based virtual patient simulator for just-in-time refresher training for emergency medical care in austere environments
Role: Site PI

[KL2TR001429]	*Black (PI)	2019-2021
NIH National Center for Advancing Translational Science		\$282,030
When to Start Vasopressors: Defining Optimal Hypotension Management in Septic Shock		
<i>The overall goal of this study is to investigate the association between hypotension exposure, vasopressor timing and adverse outcomes in septic shock.</i>		
Role: Mentor		
[1R18HS022458-01A1]	Fernandez (PI)	2014-2018
Agency for Healthcare Quality & Research		\$749,950
Translating simulation-based team leadership training into patient-level outcomes		
<i>The major goal is to assess the impact of simulation-based team leadership training on leadership, teamwork, and patient care during trauma resuscitations</i>		
Role: PI		
[UL1TR001427]	Fernandez (PI)	2018-2019
NIH National Center for Advancing Translational Sciences		\$25,000
Development and Validation of a novel TEam Adaptation Measurement System: TEAMS		
<i>The overall goal of the proposed study is to develop and validate a TEam Adaptation Measurement System (TEAMS) that measures adaptive behaviors during trauma resuscitations.</i>		
Role: PI		
[no number]	*Sheikh (PI)	2018-2020
Junior Scholars Program Jacksonville Aging Studies Center		\$177,800
Development of a Risk Prediction Screening Tool for Opioid-Prescription Injury (STOP Injury) in Older Adults Initiated on Opioids from the Emergency Department		
<i>The objective of this pilot project is to gather data to inform the development of the STOP Injury tool and evaluation additional pharmacogenetic predictive factors and important outcomes relevant to prescription opiates</i>		
Role: Co-Primary Mentor		
[no number]	*Rosenman (PI)	2017-2018
Society for Academic Emergency Medicine		\$9,996
Creating and validating a team leadership assessment tool for emergency medicine		
<i>The objective of this study is to develop a psychometrically robust emergency medicine team leadership assessment tool</i>		
Role: Primary Mentor		
[2016XH00324, K-3631]	*Vrablik (PI)	2016-2018
Washington State Department of Labor and Industry		\$200,000
Preventing violence against emergency department healthcare workers: A prospective needs assessment to inform effective intervention		
<i>This study will apply a human factors approach to understand the nature of emergency department type 2 violence, and identify contributing environmental and system factors that may serve as targets for future interventions.</i>		
Role: Primary Mentor; Co-PI		
[1R13EB023759-01A1]	Fernandez (PI)	2016-2017
National Institute of Biomedical Imaging and Bioengineering		\$10,000
2017 AEM Consensus Conference on Catalyzing System Change Through Healthcare Simulation: Systems, Competency, and Outcomes		
<i>The overall objective of the conference grant is to support a one day conference focused on addressing critical barriers in simulation-based emergency medicine research to impact patient safety and healthcare quality</i>		
Role: PI		

[1R13HS024820-01]	Fernandez (PI)	2016-2017
Agency for Healthcare Research and Quality		\$35,000
2017 AEM Consensus Conference on Catalyzing System Change Through Healthcare Simulation: Systems, Competency, and Outcomes		
<i>The overall objective of the conference grant is to support a one day conference focused on addressing critical barriers in simulation-based emergency medicine research to impact patient safety and healthcare quality</i>		
Role: PI		
[2014XH00293, K-1901]	Fernandez (PI)	2015-2016
Washington State Department of Labor & Industry		\$199,993
Personal protective equipment simulation-based training for health care workers treating patients with highly contagious infectious diseases		
<i>The major goal is to develop a training course for health care workers that specifically targets high-risk activities associated with high level PPE use.</i>		
Role: PI		
[W81XWH1020023]	Fernandez (PI)	2015-2017
US Department of Defense		\$1,149,975
Development of an Integrated Team Training Design and Assessment Architecture to Support Adaptability in Healthcare Teams		
<i>The major goal is to develop a simulation design architecture and predictive model of trauma team performance to support team training and team effectiveness.</i>		
Role: PI		
[no number]	Fernandez (PI)	2013-2015
Physio-Control, Inc.		\$50,000
Preliminary design of a pilot study to evaluate the impact of an automated chest compression device on critical teamwork behaviors and clinical care		
<i>The objective of this study is to collect preliminary data evaluating the impact of an automated chest compression device on (1) patient management, (2) teamwork behaviors, and (3) provider stress level during a simulated cardiac arrest</i>		
Role: PI		
[no number]	*Branzetti (PI)	2013-2015
UW Patient Safety and Innovations Program		\$50,000
Development of a training intervention to decrease procedure-related errors		
<i>The objective of this study is to develop and evaluate a novel just-in-time training intervention for rarely performed high risk procedures</i>		
Role: Mentor, Co-PI		
[no number]	Ross (PI)	2011-2016
Department of Defense		\$1,468,589
Congressional Award: Team Training and Assessment Across Healthcare Units		
<i>The objective of the overall project is to develop and assess team training across multiple units within a healthcare system</i>		
Role: Subproject PI		
[1R18HS020295-01]	Fernandez (PI)	2011-2015
Agency for Healthcare Research and Quality		\$1,050,000
Improving patient safety through leadership and team performance in simulations		
<i>The objective of this study is to develop the impact of a novel leadership training program on team performance and team processes during cardiac resuscitation management</i>		
Role: PI		

[no number] Fernandez (PI) 2010-2011
Emergency Medicine Patient Safety Foundation \$75,000
Validation of a Simulated Team Experience and Assessment Methodology (SimTEAM)
The objective of this study is to develop and validate metrics to assess physician performance in a team context, its effects on team processes, and its impact on team performance during assessment and resuscitation of rapidly decompensating patients
Role: PI

[no number] Fernandez (PI) 2010-2011
Blue Cross Blue Shield of Michigan Foundation Award \$9,997
Validation of an end-of-life assessment tool
The objective of this research project is to develop a content valid instrument to measure the critical care communication skills of emergency physicians in order to facilitate education and assessment of end-of-life communication skills in a time-sensitive acute care setting
Role: PI

[no number] Fernandez (PI) 2005-2007
Blue Cross Blue Shield of Michigan Foundation Award \$10,000
Outcomes impacted by family witnesses to resuscitation- A simulation study
The objective of the study is to evaluate the impact of a family witness on patient care during a simulated cardiac arrest

Role: Co-I [no number] White (PI) 2005-2007
Health Resources and Services Administration \$300,000
Terrorism, Disaster & Public Health Emergency Curriculum
The objective of this project is to develop and implement an undergraduate curriculum focused on basic principles of disaster medicine.
Role: Co-I

Submitted

Role: Co-PI
Modeling the Structure and Function of Boundary Spanners within Dynamic Multi-Team Systems
Department of Defense
LOI Accepted, Full Proposal Invited

PUBLICATIONS

*denotes a mentee as author

Publications in Refereed Journals

1. Militello L, Sushereba C, **Fernandez R**, Wolf S. Learn, Experience, Reflect Framework for Training Design. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (accepted). [concept paper]
2. **Fernandez R**, Rosenman ED, *Plaza-Verduin M, Grand JA. A conceptual model of adaptive performance and simulation-based training in emergency medicine teams. *Acad Emerg Med E&T*. 2022 Jun 1;6(3):e10762. doi: 10.1002/aet2.10762. [concept paper]
3. *Gutman CK, Lion KC, Fisher CL, Aronson PL, Patterson M, **Fernandez R**. Breaking through barriers: The need for effective research to promote language concordant communication as a facilitator of equitable emergency care. *JACEP Open*. 2022;3(1):e12639 [concept paper]
4. *Lodemann T, Akcali E, **Fernandez R**. Process modeling of ABCDE primary survey in trauma resuscitations: A crucial first step for agent-based simulation modeling of complex team-based clinical processes. *Simul Healthc* (in print) [original research]

5. *Rosenman ED, Misisco A, Olenick J, Broliar S, *Chipman AK, *Vrablik MC, Kozlowski SWJ, Grand JA, Chao GT, **Fernandez R**. Does team leader gender matter? A Bayesian reconciliation of leadership and patient care during trauma resuscitations. *JACEP Open*. Jan 2021;2(1). (<https://doi.org/10.1002/emp2.12348>) [original research]
6. **Fernandez R**, *Rosenman ED, *Chipman AK, *Broliar S, *Vrablik M, Kalynych C, Shuluk J, Lazzara EH, Keebler JR, Samuelson H, Grand JA. An Event-based Approach to Measurement: Facilitating observational measurement in highly variable clinical settings. *Acad Emerg Med Educ Train*. 2020;4(2):147-153. PMID: 32313861 [original research]
7. **Fernandez R**, *Rosenman ED, Olenick, J, Misisco, A, Broliar S, *Chipman AK, *Vrablik MC, Kalynych C, Arbabi S, Nichol G, Grand JA, Kozlowski SWJ, Chao GT. Simulation-based team leadership training improves team leadership and patient care during actual trauma resuscitations: A randomized controlled trial. *Crit Care Med* 2020;48(1):73-82. PMID: 31725441. [original research]
8. *Black LP, Puskarich MA, Smotherman C, Miller T, **Fernandez R**, Guirgis FW. Time to Vasopressor initiation and organ failure progression in early septic shock. *JACEP-Open* 2020;1(3). (<http://dx.doi.org/10.1002/emp2.12060>) [original research]
9. *Black LP, Puskarich MA, Henson M, Miller T, Reddy ST, **Fernandez R**, Guirgis FW. Quantitative and qualitative assessments of cholesterol association with bacterial infection type in sepsis and septic shock. *J Intensive Care Med*. 2020. PMID: 32578468. (<https://doi.org/10.1177/0885066620931473>) [original research]
10. *Parsons M(&), Kalynych C, Johns TL, Scicchitano MJ, Lott M, **Fernandez R**. IMPACT Survey: IMpaired fecundity in Physicians and Association with Clinical Time. *JACEP-Open*. 2020;1(5). (<https://doi.org/10.1002/emp2.12170>) [original research]
11. *Rosenman ED, Bullard MJ, Jones KA, Welsh L, Broliar SM, Levine BR, Grand JA, **Fernandez R**. Development and empirical testing of a novel team leadership assessment measure: A pilot study using simulated and live patient encounters. *Acad Emer Med E&T* 2019;3(2):163-171. PMID: 31008428. [original research]
12. *Rosenman ED, *Vrablik MC, Broliar SM, *Chipman AK, **Fernandez R**. Targeted simulation-based leadership training for trauma team leaders. *West J Emerg Med* 2019;20(3):520-526. [curriculum development]
13. *Vrablik MC, *Chipman AK, *Rosenman ED, Simcox NJ, Huynh L, Moore M, **Fernandez R**. Impact of workplace violence on emergency department workers: Results from a qualitative study. *BMJ Open* 2019;9:e031781. [original research]
14. Kozlowski SWJ, Olenick J, Bienefeld N, **Fernandez R**, Lungeanu A, Misisco A, et al. A Matter of Time: Advancing the Study of Team Processes in Extreme Environments. In: *Academy of Management Proceedings*. Academy of Management Briarcliff Manor, NY. August 1, 2019. [original research]
15. *Rosenman ED, Dixon AJ, Webb JM, Broliar SM, Golden SJ, Jones KA, Shah S, Grand JA, Kozlowski SWJ, Chao GT, **Fernandez R**. A simulation-based approach to measuring team situational awareness in emergency medicine: A multicenter, observational study. *Acad Emer Med* 2018;25(2):196-204. (doi:10.1111/acem.13257). [original research]
16. *Rosenman ED, **Fernandez R**, Wong AH, Cassara M, Cooper DD, Kou M, Laack TA, Motola I, Parsons JR, Levine BR, Grand JA. Changing systems through effective teams: A role for simulation. *Acad Emer Med* 2018;25(2):128-143. (doi:10.1111/acem.13260). [conceptual paper]

17. *Gittinger M, Broliar SM, Grand JA, Nichol G, **Fernandez R**. Using simulation as an investigational methodology to explore the impact of technology on team communication and patient management: A pilot evaluation of the effect of an automated compression device. *Simul Healthc*. 2017;12(3):139-147. [original research]
18. *Branzetti JB, Adedipe AA, *Gittinger MJ, *Rosenman ED, Broliar S, *Chipman AK, Grand JA, **Fernandez R**. A randomized controlled trial to assess the effect of a Just-in-Time training on procedural skill decay: A proof of concept study. *BMJ Qual Saf*. 2017;26(11):881-891.(doi.org/10.1136/bmjqs-2017-006656) [original research]
19. *Rosenman ED, *Vrablik MC, *Charlton P, *Chipman A, **Fernandez R**. Promoting workplace safety: Training de-escalation skills in graduate medical education. *J Grad Med Educ*. 2017;9(5):562-566. [thematic review]
20. **Fernandez R**, Shah S, *Rosenman ED, Kozlowski SWJ, Parker SH, Grand JA. Developing team cognition: A role for simulation. *Simul Healthc*. 2017, 12(2):96-103. [thematic review]
21. **Fernandez R**, *Mitchell SH, Ehrmantraut R, Simcox, NJ, Wolz, S, Meschke, JS, Parker SH. Proactive risk assessment for Ebola infected patients: A systematic approach to identify and minimize risk for healthcare personnel. *Infect Control Hosp Epidemiol*, 2016, 37(7):867-871. PMID: 27226216. [original research]
22. Whiteside LK, **Fernandez R**, *Bammer J, Nichol G. Perception of the risks of Ebola, Enterovirus-E68, and Influenza among patients presenting to the ED. *West J Emerg Med*, 2016, 17(4):391-395. PMID: 27429689. [original research]
23. *Rosenman ED, *Branzetti JB, **Fernandez R**. Assessing team leadership in emergency medicine: The milestones and beyond. *J Grad Med Educ*, 2016;8(3):332-40. [thematic review]
24. *Rosenman E, Ilgen, JS, *Shandro JR, Harper, AL, **Fernandez, R**. A systematic review of tools used to assess team leadership in health care action teams. *Acad Med*. 2015; 90(10):1408-1422. [systematic review]
25. **Fernandez R**, Grand JA: Leveraging Social Science-Healthcare Collaborations to Improve Teamwork and Patient Safety. *Curr Probl Pediatr Adolesc Health Care*, 2015; 45(12):370-377. PubMed PMID: 26573242. [thematic review]
26. Compton S, **Fernandez R**. Presence during cardiopulmonary resuscitation is beneficial to family members in the out-of-hospital setting. *Evid Based Med*. 2014 Feb; 19(1): 13. [editorial]
27. Fialkow M, Adams CA, *Carranza, L, Golden SJ, Benedetti TJ, **Fernandez R**. An in situ standardized patient-based simulation to train postpartum hemorrhage and team skills on a labor & delivery unit. *Simul Healthc*. 2014; 9(1): 65-71. [curriculum development]
28. *Sherman M, Leland F, Ross B, **Fernandez R**. Simopoly: Improving simulation center operations through a tabletop simulation exercise. *Simul Healthc*. 2014; 9(5). [curriculum development]
29. *Rosenman E, *Shandro JR, Ilgen, JS, Harper, AL, **Fernandez, R**. Leadership training in healthcare action teams: A systematic review. *Acad Med*. 2014; 89(9):1295-1306. [systematic review]
30. Shah S, Adedipe A, Sajed D, Rood K, Backlund B, **Fernandez R**. Effect of educational intervention on ED physician ability to perform a rapid, bedside ultrasound assessment in late pregnancy. *West J Emer Med*. 2014; 15(6). [original research]

31. Grand JA, Pearce M, Rench TA, Chao GT, **Fernandez R**, Kozlowski SWJ. Going DEEP: Guidelines for building simulation-based team assessments. *BMJ Qual Saf.* 2013; 22(5): 436-448. [thematic review]
32. **Fernandez R**, Pearce M, Grand JA, et al. Evaluation of a computer-based educational intervention to improve medical teamwork and performance during simulated patient resuscitations. *Crit. Care Med.* 2013; 41(11): 2551-2562. [original research]
33. **Fernandez R**, Deutsch AL, Janairo MP, Compton SA. Development of a content valid tool for assessing end-of-life communication in acute care settings. *J. Pall Med.* Apr 2012; 15(4): 381-387. [original research]
34. Choo EK, **Fernandez R**, Hayden EM, et al. An agenda for increasing grant funding of emergency medicine education research. *Acad. Emerg. Med.* Dec 2012; 19(12): 1434-1441. [thematic review]
35. Brooks-Buza H, **Fernandez R**, Stenger JP. The use of in situ simulation to evaluate teamwork and system organization during a pediatric dental clinic emergency. *Simul. Healthc.* Apr 2011; 6(2): 101-108. [curriculum development]
36. **Fernandez R**, Wang E, Vozenilek JA, et al. Simulation center accreditation and programmatic benchmarks: A review for emergency medicine. *Acad. Emerg. Med.* Oct 2010; 17(10): 1093-1103. [thematic review]
37. **Fernandez R**, Compton S, Jones KA, Velilla MA. The presence of a family witness impacts physician performance during simulated medical codes. *Crit. Care Med.* Jun 2009; 37(6): 1956-1960. [original research]
38. **Fernandez R**, Kozlowski SWJ, Shapiro MJ, Salas E. Toward a definition of teamwork in emergency medicine. *Acad. Emerg. Med.* Nov 2008; 15(11): 1104-1112. [thematic review]
39. **Fernandez R**, Vozenilek JA, Hegarty CB, et al. Developing expert medical teams: Toward an evidence-based approach. *Acad. Emerg. Med.* Nov 2008; 15(11): 1025-1036. [thematic review]
40. Spillane L, Hayden E, **Fernandez R**, et al. The assessment of individual cognitive expertise and clinical competency: A research agenda. *Acad. Emerg. Med.* Nov 2008; 15(11): 1071-1078. [thematic review]
41. **Fernandez R**, Parker D, Kalus JS, Miller D, Compton S. Using a human patient simulation mannequin to teach interdisciplinary team skills to pharmacy students. *Am. J. Pharm. Educ.* Jun 2007; 71(3). [original research]
42. Schwartz LR, **Fernandez R**, Kouyoumjian SR, Jones KA, Compton S. A Randomized comparison trial of case-based learning versus human patient simulation in medical student education. *Acad. Emerg. Med.* Feb 2007; 14(2): 130-137. [original research]
43. Bond WF, Lammers RL, Spillane LL, et al. The use of simulation in emergency medicine: A research agenda. *Acad. Emerg. Med.* Apr 2007; 14(4): 353-363. [thematic review]
44. **Fernandez R**, Sarma V, Younkin E, Hirschl RB, Ward PA, Younger JG. Exposure to perflubron is associated with decreased Syk phosphorylation in human neutrophils. *J. Appl. Physiol.* 2001; 91(5): 1941-1947. [original research]
45. **Fernandez R**, Suchard SJ. Syk activation is required for spreading and H₂O₂ release in adherent human neutrophils. *J. Immunol.* May 1998; 160(10): 5154-5162. [original research]

46. **Fernandez R**, Boxer LA, Suchard SJ. beta(2) integrins are not required for tyrosine phosphorylation of paxillin in human neutrophils. *J. Immunol.* Dec 1997; 159(11): 5568-5575. [original research]
47. Balazovich KJ, **Fernandez R**, Hinkovska-Galcheva V, Suchard SJ, Boxer LA. Transforming growth factor-beta(1) stimulates degranulation and oxidant release by adherent human neutrophils. *J. Leukoc. Biol.* Dec 1996; 60(6): 772-777. [original research]

Non-Peer Reviewed Publications

1. **Fernandez R**, Compton S. Impact of the presence of parents on cardiopulmonary resuscitation and invasive procedures Reply. *Crit. Care Med.* Dec 2009; 37(12): 3189-3190.

Manuscripts Submitted

1. **McFarlane A, Rosenman ER, Grand JA, Fernandez R. A Qualitative Exploration of Emergency Medicine Residents' Perspectives of Trauma Leadership Development. (submitted, *BMJ Leader*) [original research]**
2. **Grand JA, Rosenman ER, Fernandez R. Studying Leadership-as-Process by Mining Behavioral Sequences. (submitted, *Proceedings of the Society for Industrial and Organizational Psychology*) [original research]**

Book Chapters

1. **Fernandez R**, *Adedipe AA, *Rosenman ED, Compton S, Kozlowski SWJ. Simulation-based measurement and program evaluation: Demonstrating effectiveness. In Strother, C, Okuda, H, McLaughlin S (Eds.), *Comprehensive Health Simulation Series: Emergency Medicine Edition*. Springer (in press).
2. **Fernandez R**, Perry SJ, Patterson MD. Anatomy of a Successful Grant Proposal. In Nestel D, Hui J, Kunkler K, Scerbo MW, Calhoun AW (Eds.), *Healthcare Simulation*. Cham, Switzerland; Springer; 2019, p. 277 – 284.
3. Kozlowski SWJ, Chao GT, Chang C, **Fernandez R**. Team dynamics: Using “big data” to advance the science of team effectiveness. In Tonidandel, King, & Cortina (Eds.), *Big Data at Work: The Data Science Revolution and Organizational Psychology*. Mahwah, NJ: Lawrence Erlbaum; 2015, p. 273 – 309.
4. **Fernandez R**, *Sherman M, Strother C, Andreatta P, Benedetti T. (2013). Program and center accreditation. In Levine, Bryson, DeMaria, and Schwartz (Eds.), *The Comprehensive Textbook of Healthcare Simulation*. New York, NY: Springer; 2013: p. 641-648.

Invited Podcasts

1. **Fernandez R, Hicks C.** Human Factors in Resuscitation. (2022) Mission Critical Team Institute. <https://ce.mayo.edu/online-education/content/high-performance-resuscitation-teams-time-zero-series-online-cme-course#group-tabs-node-course-default3>
2. **Fernandez R,** Critical Care Medicine: Family Presence and Physician Performance (2009) SCCM Pod-111 (<https://www.sccm.org/Communications/SCCM-Podcast/SCCM-Podcast-All-Episodes/SCCM-Pod-111-CCM-Family-Presence-and-Physician-Pe>)

Abstracts (past 5 years)

1. ***Gutman CK, Bryan L, Waidner L, Lion KC, Sizemore A, Holland C, Montero C, Fernandez R.** Gaps in Patient Race and Ethnicity Data: Identification of Need in the Pediatric Emergency Department. Abstract accepted at *Society for Academic Emergency Medicine Annual Meeting; 2022; New Orleans, LA.*
2. ***Gutman CK, Waidner L, Bryan L, Lion KC, Sizemore A, Holland C, Montero C, Fernandez R.** Identification of Patient Race and Ethnicity in a Pediatric Emergency Department. Accepted as an Oral Abstract at *Pediatric Academic Societies; 2022; Denver, CO.*
3. ***Black LP, Michael A, Puskarich MA, Henson M, Miller T, Reddy ST, Fernandez R, Guirgis FW.** Association of cholesterol levels with bacterial infection type in sepsis and septic shock. *Crit Care Med.* 2020;48(1): 780.
4. ***Davis TL, Marshall T, Fernandez R.** Pilot Study: Impact of a weighted vest on cardiopulmonary resuscitation by low body weight individuals. *Acad Emerg Med.* 2020;27(S1): S231.
5. ***Black LP, Hopson C, DeVos E, Puskarich MA, Garvan C, Fernandez R, Guirgis FW.** Time-to-vasopressor initiation and mortality in patients with septic shock. *Acad Emerg Med.* 2020;27(S1): S56. [Abstract 101]. <https://doi.org/10.1111/acem.13961> (*Top 100 abstract*)
6. ***Parsons ME, Kalynych C, Fernandez R.** IMPACT Survey: Impaired fecundity in physicians and association with clinical time. *Acad Emerg Med.* 2020;27(S1): S137.
7. ***Black LP, Hopson C, DeVos E, Norse A, Parker A, Puskarich MA, Fernandez R, Garvan C, Guirgis FW.** Age, race, insurance status: Understanding sociodemographic predictors of septic shock mortality. *Acad Emerg Med.* 2020;27(S1): S75.
8. ***Black LP, Mohseni M, Shirazi E, Smotherman C, Norse A, DeVos EL, Fernandez R, Sheele JM, Guirgis FW.** Association of serum phosphate and mortality in patients with sepsis. *Acad Emerg Med.* 2020;27(S1): S74.
9. ***Black LP, Michael A, Puskarich MA, Henson M, Miller T, Reddy ST, Fernandez R, Guirgis FW.** Cholesterol differences between confirmed septic patients and adjudication failure. *Crit Care Med.* 2020;48(1): 786.
10. ***Rosenman ED, Misco A, Olenick J, *Chipman AK, *Vrablik MC, Broliar SM, Kalynych C, Grand J, Chao GT, Kozlowski SW, Fernandez R.** "Does gender matter? Addressing the question of gender superiority in resuscitation leadership." *Circulation.* 2019;140(S2): A190.

11. **Fernandez R, *Rosenman ED, Olenick J, Misisco A, Broliar S, *Chipman AK, *Vrablik MC, Kalynych C, Arbabi S, Nichol G, Grand JA, Kozlowski SWJ, Chao GT. Leadership training improves performance during trauma resuscitations: A randomized controlled trial. *Acad Emer Med.* 2019; 26(S1): S104. (Top 100 abstract)**

ORAL PRESENTATIONS

National/International Presentations

1. **(invited) Resuscitation leadership training, adapting for incorporation into ACLS, ATLS – development of low resource solutions. 2020 Citizen CPR Foundation Virtual Summit**
2. **(invited) Emergency Medicine – National Institutes of Health Grantsmanship: Strategizing non-traditional Approaches. 2021 Society for Academic Emergency Medicine Annual Meeting (meeting virtual due to COVID-19)**
3. **When treatment algorithms aren't enough: Using simulation to understand safety threats in anaphylaxis. 2021 International Symposium on Human Factors and Ergonomics in Healthcare, (meeting virtual due to COVID-19)**
4. **COVID 19 and social networking: Information sharing across systems with in situ simulation. 2021 International Symposium on Human Factors and Ergonomics in Healthcare, (meeting virtual due to COVID-19)**
5. **COVID 19 and social networking: Information sharing across systems with in situ simulation. 2021 International Meeting on Simulation in Healthcare, (meeting virtual due to COVID19)**
6. **Leadership training improves performance during trauma resuscitations: A randomized controlled trial. 2019 Society for Academic Emergency Medicine Annual Meeting. Las Vegas, NV. 2019.**
7. **Research methods for healthcare teams: Technology, opportunities and lessons learned. 2018 Society for Industrial and Organizational Psychology Annual Conference, Chicago, IL. 2018.**
8. **Translational research linking medical education efforts to patient outcomes: Methodological constraints and solutions encountered during a randomized controlled trial. 2018 Society for Academic Emergency Medicine Annual Meeting, Indianapolis, IN. 2018.**
9. **Danger Will Robinson! Using simulation to identify high-risk PPE-related occupational activities: Bringing FMEA to life. 2016 International Meeting on Simulation in Healthcare, San Diego, CA. 2016.**
10. **Seeing Red – Navigating the combative patient: An innovative de-escalation curriculum for the provider. 2016 International Meeting on Simulation in Healthcare. San Diego, CA. 2016.**

11. Understanding and evaluating effectiveness of teams in emergency simulation scenarios. 2014 International Meeting on Simulation in Healthcare (discussant). San Francisco, CA. 2014.
12. A randomized comparison study to evaluate the effectiveness of a computer-based teamwork training intervention on medical teamwork and patient care performance. *2013 Society for Academic Emergency Medicine Annual Meeting*. Atlanta, GA. 2013.
13. *(invited)* The Role of Simulation and team training in resuscitation. *2013 American Heart Association Annual Meeting*. Dallas, TX. 2013.
14. Simulation-based healthcare team leadership training: Identifying gaps and opportunities. *2014 International Meeting on Simulation in Healthcare* (moderator and discussant). San Francisco, CA. 2014.
15. A workshop on simulation staff professional development: "Simopoly" - Creative ways to staff retention and career development. *2013 International Meeting on Simulation in Healthcare*, Orlando, FL. 2013.
16. Simulation lab ABCs: Can you manage these critical cases? *2011 American College of Emergency Physicians Scientific Assembly Workshop*. (breakout session leader) San Francisco, CA. 2011.
17. Meet the SimPros, Simulation in patient safety. *2011 International Meeting on Simulation in Healthcare*. (moderator and discussant). New Orleans, LA. 2011.
18. Using simulation to advance patient safety initiatives: A roundtable discussion. *2010 International Meeting on Simulation in Healthcare*. (moderator and discussant). Phoenix, AZ. 2010.
19. Promoting excellence in end-of-life care: developing a blended simulation-based educational experience for healthcare practitioners. *2010 International Meeting on Simulation in Healthcare Post-Graduate Workshop*. Phoenix, AZ. 2010.
20. Simulation-based patient safety initiatives: Measuring outcomes at the patient and system level. *2010 Society for Academic Emergency Medicine Annual Meeting*. Phoenix, AZ. 2010.
21. Is the sum greater than the parts? Assessing team performance. *2008 Association of Medical Education in Europe annual meeting*. Prague, CZ. 2008.
22. Promoting excellence in end-of-life care: developing a blended simulation-based educational experience for healthcare practitioners. *2009 International Meeting on Simulation in Healthcare Annual Meeting*. Orlando, FL. 2009.
23. *(invited)* Enhancing patient safety: A role for simulation and other human factors solutions *National Academy of Sciences Committee on Human Systems Integration*, Washington, DC. 2008.
24. *(invited)* Individual expertise: Global provider competency. Committee member. *Society for Academic Emergency Medicine Consensus Conference on The Science of Simulation in Healthcare*. Washington, DC. 2008.
25. *(invited)* Group expertise: effective teamwork and communication. *Committee and Workshop Leader. Society for Academic Emergency Medicine Consensus Conference on The Science of Simulation in Healthcare*. Washington, DC. 2008.
26. Education in simulation: a method for assessment. *2007 Society for Academic Emergency Medicine Simulation Interest Group Annual Meeting*. Chicago, IL. 2007.

27. β_2 integrins are not required for tyrosine phosphorylation of paxillin in neutrophil. *Howard Hughes Medical Institute Meeting of Medical School Fellows*. Chevy Chase, MD. 1996.
28. Thrombospondin as an autocrine motility factor in glioblastoma cells. *The American Pediatrics Society/The Society for Pediatric Research*. Washington, DC. 1996.
29. Thrombospondin (TSP)-dependent migration of glioblastoma cells: relationship to invasive potential and involvement of TSP-structural domains. *Howard Hughes Medical Institute Meeting of Medical School Fellows*, (oral presentation). Chevy Chase, MD. 1995.

Local/Regional Meetings (past 5 years)

None

Invited Grand Rounds Presentations (past 5 years)

1. Herding Cats: The benefits and logistics of leading a distributed research team. University of Florida Clinical and Translational Science Institute K College Seminar. 2022.
2. Unloved Grant Material. Research Training Academy Research Essentials. University of Florida – Jacksonville. 2022, 2021.
3. Resuscitation teams: Understanding and studying extreme action teams in healthcare. Virginia Tech / Fralin Biomedical Research Institute (virtual due to COVID-19). 2021.
4. Peer Review. Research Training Academy Research Essentials. University of Florida – Jacksonville. 2021.
5. Resuscitation Teams: Understanding and studying extreme action teams in healthcare. University of Florida Department of Industrial and Systems Engineering. Gainesville, FL. 2021.

Poster Presentations (past 5 years)

1. Development of an integrated team training design architecture to support adaptability in healthcare teams. *2018 Military Health System Research Symposium*, Orlando, FL.
2. Development of a generalizable method for assessing, predicting, and improving team adaptability. *2018 Military Health System Research Symposium*, Orlando, FL. 2018.
3. **A multicenter, observational study of teamwork, team cognition, and leadership. *2016 Military Health System Research Symposium*, Orlando, CA. 2016.**

MENTORSHIP

Dissertation Advisor

2021- 2022 Richard Simonson, MS. PhD Candidate, Embry Riddle Aeronautical University, Human Factors and Behavioral Neurobiology (*Dissertation committee member*)

Training Grant Mentor

2020-present Colleen Gutman, MD, Junior Faculty, University of Florida, Dept. of Emergency Medicine, primary mentor, health disparities research (*Primary KL2 mentor; Pediatric Emergency Medicine Collaborative Research Committee mentor*)

- 2018-present Lauren P. Black, MD MS, Junior Faculty, University of Florida – Jacksonville, Dept. of Emergency Medicine, *(Co-mentor for NCATS KL-2 Training Grant, NIGMS K23 grant, 3 submitted grants, 2 first author manuscripts)*
- 2018-2020 Sophia Shiekh MD, MS, Junior Faculty, University of Florida – Jacksonville Dept. of Emergency Medicine, *(Co-primary research mentor for training grant, JAX ASCENT Center for Aging Research)*

Faculty Mentor

- 2020-2021 William Bortcosh, MD, Junior Faculty, University of Florida, Dept. of Pediatrics, simulation-based research mentor *(simulation-based research for quality improvement, grant submission and abstract submission)*
- 2020-present Maritza Plaza-Verduin, MD, Junior Faculty, University of Florida, Dept. of Emergency Medicine, primary mentor, simulation-based education and patient safety research *(co-investigator on Defense Health Agency grant)*
- 2020-present Meredith Thompson, MD, Junior Faculty, University of Florida, Dept. of Emergency Medicine, primary mentor, medical education research *(co-investigator on Defense Health Agency grant)*
- 2020-present Caroline Srihari, MD, Junior Faculty, University of Florida, Dept. of Emergency Medicine, primary mentor, medical education research *(co-investigator on Defense Health Agency grant)*
- 2019-present Nicholas Maldonado, MD, Junior Faculty, University of Florida, Dept. of Emergency Medicine, primary mentor, medical education research *(co-investigator on Department of Defense grant; awarded American College of Emergency Physicians teaching award)*
- 2018-2020 Melissa Parsons MD, Junior Faculty, University of Florida – Jacksonville Dept. of Emergency Medicine, research mentor *(one successful internal grant application, first author on 1 manuscript)*
- 2018-2020 Petra Duran-Gehring, MD, Junior Faculty, University of Florida – Jacksonville, Dept. of Emergency Medicine, primary mentor, medical education *(Macy Faculty Scholar semi-finalist)*
- 2015-2019 Marie Vrablik MD, Junior Faculty, University of Washington Division of Emergency Medicine, research mentor *(first authorship on one manuscript, 1 successful external grant application, co-author four manuscripts, co-investigator two external grants)*
- 2015-2020 Anne Chipman MD, Junior Faculty, University of Washington Division of Emergency Medicine, research mentor *(co-first authorship on one manuscript, co-author on 5 manuscripts, co-investigator one external grants)*
- 2014-2018 Katie Abramson, Ph.D., Research Mentor, Robert Wood Johnson Nurse Faculty Scholars Program *(first authorship on one manuscript)*
- 2013-2017 Matthew Gittinger, MD, Junior Faculty, University of Washington Division of Emergency Medicine, education research mentor *(first authorship on one manuscript)*
- 2012-2013 Fiona Gallahue, MD, Junior Faculty, University of Washington Division of Emergency Medicine, education research mentor

- 2012-2013 Amy Betz, MD, Junior Faculty, University of Washington Division of Emergency Medicine, education research mentor
- 2012-2017 Alisha Brown, MD, Resident, University of Washington Division of Emergency Medicine, simulation-based research mentor
- 2012-2017 Jeremy Branzetti, Junior Faculty, University of Washington Division of Emergency Medicine, simulation-based research mentor (*first authorship on one manuscript, 1 successful internal grant application, co-author on one manuscript*)
- 2011-present Elizabeth Rosenman, Junior Faculty, University of Washington Division of Emergency Medicine, simulation-based research mentor (*first authorship on 9 manuscripts, 1 successful external grant application, co-author on 5 manuscripts, co-investigator on three external grants*)
- 2011-2012 Leslie Carranza, Junior Faculty, University of Washington Dept. of Ob/Gyn, simulation-based research mentor (*co-authored one manuscript*)
- 2011-2014 Jamie Shandro, Junior Faculty, University of Washington Division of Emergency Medicine, simulation-based research mentor (*co-authored two manuscripts and mentored as co-investigator on federally funded grant*)
- 2011-2012 Christine Adams, Nurse Administrator, UW Medicine Labor and Delivery Unit, simulation-based training (*co-authored one manuscript*)
- 2010-2011 Claire Pearson, Junior Faculty, Wayne State University Department of Emergency Medicine

Graduate Student Mentor

- 2018-present Tobias Lodemann, MS, Graduate Student, University of Florida, Department of Industrial and Systems Engineering, transdisciplinary research mentor (*abstract accepted, International meeting; first author manuscript accepted*)

Resident and Medical Student Mentor

- 2021 Karen (Kay) Tews, Medical Student, UF Medical Student Research Program (MSRP) mentee, (*research project evaluating trauma team performance using in situ simulations; national poster presentation*)
- 2020-present Nicholas Laconi, MD, Fellow, University of Florida, Department of Surgery, primary mentor, simulation-based education (*research focusing on developing training and assessments for robotic surgery curriculum*)
- 2019-2021 Terri Davis, MD, Resident, University of Florida, Dept. of Emergency Medicine, primary mentor, simulation research (accepted abstract, 2020 Annual Meeting *Society for Academic Emergency Medicine*)
- 2015-2018 Paul Charlton, MD, Resident, University of Washington Division of Emergency Medicine, education research mentor (*author, manuscript*)
- 2015-2016 Justin Bammer, MD, Resident, University of Washington Division of Emergency Medicine, research mentor (*co-author, manuscript*)
- 2009-2010 Devon Moore Wayne State University Emergency Medicine Resident, Scholarly Project

- 2009-2010 Katie Ohlendorf, Wayne State University Emergency Medicine Resident, Scholarly Project
- 2005-2007 Christopher Reavill, Wayne State University Emergency Medicine Resident, Scholarly Project
- 2005-2007 Anoop Mahjoo Wayne State University Emergency Medicine Resident, Scholarly Project

EDUCATIONAL ACTIVITIES

Educational Administration

- 2020-present Director of Simulation Fellowship, Center for Experiential Learning and Simulation, College of Medicine, University of Florida, Gainesville, FL
- 2013-2017 Associate Director for Education, UW Medicine Center for Scholarship in Patient Care, Quality, and Safety, University of Washington School of Medicine, Seattle, WA
- 2011-2017 Director of Medical Simulation, Division of Emergency Medicine, University of Washington School of Medicine, Seattle, WA
- 2008-2011 Director of Healthcare Simulation and Patient Safety, Wayne State University School of Medicine, Detroit, MI
- 2005-2008 Director of Medical Simulation Center, Eugene Applebaum College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI
- 2003-2008 Assistant Program Director, Wayne State University/Detroit Medical Center, Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI

Educational Committees

- 2013 University of Washington School of Medicine Curriculum Review Committee – Assessment
- 2013 University of Washington School of Medicine Curriculum Review Committee – Patient Safety
- 2006-2008 Member, Southeast Michigan Center for Medical Education Simulation Interest Group, Detroit, MI
- 2005-2007 Medical Director, Simulation Task Force, Eugene Applebaum College of Pharmacy, Wayne State University, Detroit, MI
- 2003-2011 Member, Research Committee; Wayne State University/Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI
- 2003-2011 Member, Educational Committee, Wayne State University/Detroit Receiving Hospital, Department of Emergency Medicine, Detroit, MI
- 1996-1999 Member, Office of Student Biomedical Research Selection Committee, University of Michigan Medical School, Ann Arbor, MI
- 1992-1999 Member, University of Michigan Medical School Admissions Committee, Ann Arbor, MI

Simulation-based Training Development and Implementation

- 2022 Center for Experiential Learning and Simulation: Validity Evidence and Measurement
Implemented 4-hour workshop designed to teach establishing validity evidence for simulation-based assessments
- 2021 Center for Experiential Learning and Simulation Simulation-based Assessment
Workshop
Implemented 4 hour workshop designed to teach basic scenario and metric development
- 2016-2017 University of Washington Trauma Team Leadership Training Program
Developed, implemented, and assessed a trauma team leadership training program as part of an AHRQ-funded program. Curriculum is published in *Western Journal of Emergency Medicine*.
- 2015-2017 University of Washington Patient Safety Workshop in Simulation
Developed and implemented a 2 hour workshop to teach a 6-step method for the design and implementation of simulation-based training to assess system-level processes. Delivered annually as part of the UW Certificate in Patient Safety and Quality.
- 2011-2017 University of Washington Division of Emergency Medicine Residency simulation training
Developed and implemented a simulation-based curriculum for a new four year emergency medicine program. Training included critical resuscitation, procedural skills, and diagnostic reasoning scenarios. Curricula were assessed to determine if programmatic goals were met.
- 2010 Detroit Medical Center Nurses and Code Blue Teams - Harper Hospital
In situ training provided to train crisis resource management skills for floor nurses and code blue response teams
- 2009-2010 Children's Hospital of Michigan Developmental Dentistry Program
Developed and implemented in situ training program for a pediatric dentistry program providing care to medically complex children. Work was described in *Simulation in Healthcare* and was cited as an excellent example of conceptual work that is critical to team training and performance assessment. (Eppich W, Howard V, Vozenilek J, Curran I. Simulation-based team training in healthcare. *Simul Healthc*. Aug 2011;6 Suppl:S14-19.)
- 2007-2011 Wayne State University Department of Internal Medicine Critical Care Fellows
Developed and implemented quarterly training for MICU fellows at Wayne State University. Training encompassed emergency scenarios as well as crisis resource management principles.
- 2007 Wayne State University / Children's Medical Center Pediatric Critical Care Fellows
Developed and implemented an orientation curriculum for new pediatric critical care fellows and senior residents.
- 2006-2008 St. John's Hospital Emergency Medicine Residency Programs
Provided quarterly training in emergency cases and resuscitations for residency programs for the St. John's Emergency Medicine Residency program. Developed curricula to meet programmatic goals and implemented training and assessed learner-level outcomes
- 2006-2010 Wayne State University Department of Internal Medicine Residency
Developed and implemented annual internal medicine resuscitation training and crisis resource management bootcamp for first and second year internal medicine residents

- 2005-2011 Wayne State University Medical Students, Wayne State University Department of Emergency Medicine / Detroit Receiving Hospital Residency
Developed, implemented, and evaluated a comprehensive monthly simulation curriculum for emergency medicine residents
- 2005-2011 Wayne State University Department of Emergency Medicine / Sinai-Grace Hospital Residency
Developed, implemented, and evaluated a comprehensive monthly simulation curriculum for emergency medicine residents
- 2005-2011 Wayne State University School of Medicine Emergency Medicine Clerkship Simulation program
Developed, implemented, and evaluated a simulation curriculum designed for 4th year medical students enrolled in a mandatory emergency medicine clerkship. This work is described in a manuscript published in *Academic Emergency Medicine*
- 2005-2011 Michigan State University Consortium: Emergency Medicine Residency Programs (10 program consortium)
Provided monthly training in emergency cases and resuscitations for residency programs across the Michigan State Consortium. Developed curricula to meet programmatic goals and implemented training and assessed learner-level outcomes
- 2005 Wayne State University School of Pharmacy Students
Developed, implemented, and assessed a novel simulation-based training program for second-year pharmacy students to teach inpatient management of hypertensive emergencies. Results were published in *American Journal of Pharmaceutical Education*.

Institution-wide Educational Program Development

- 2018-2019 Co-Director, JAX Grants Research Training
Developed and delivered a campus wide lecture series for junior faculty. Presentations consisted of 2-hour interactive small group workshops for junior faculty interested in applying for training grants. Presentations covered Specific Aims pages, grant mechanisms, grant components (facilities, human subjects, etc.), managing a research team, and responding to reviews.

Other Resident and Student Education

- 2021 Lecturer, Resuscitation Leadership in Emergency Medicine, UF Emergency Medicine residency
- 2019-2021 Faculty, Senior Emergency Medicine Clerkship, University of Florida College of Medicine, Gainesville, FL
- 2018-2019 Faculty, Senior Emergency Medicine Clerkship, University of Florida College of Medicine, Jacksonville, FL
- 2011-2018 Faculty, Senior Emergency Medicine Clerkship, University of Washington School of Medicine, Seattle, WA
- 2015-2018 UW Interprofessional Team Training for medical, pharmacy, and nursing students, University of Washington, Seattle, WA
- 2011 Lecturer, University of Washington Emergency Medicine Intern Orientation, Seattle, WA
Pattern Recognition and Disease States, Teamwork in Emergency Medicine, General Approach to Resuscitation

2005-2011 Faculty, Faculty, Senior Emergency Medicine Clerkship, Wayne State University School of Medicine, Detroit, MI

2005-2011 Lectures, Emergency Medicine, Wayne State University, Detroit, MI

Pattern Recognition and Disease States, Core Competencies: What Residents Need to Know, The Hand Exam: An Overview for Emergency Medicine Physicians, Approach to the Critically Ill Patient, Use of Prophylactic Antibiotics in Tube Thoracostomy: An Evidence-Based Lecture, National Incident Management Systems: An Introduction, Introduction to Disaster Management, Telemetry and EMS Communications: What to Know in the Emergency Department, Obstetrical Emergencies, Fluids and Electrolytes, Acute Management of Hypothermia, Teamwork in Emergency Medicine, Patient Safety Concepts and Applications

2004-2010 Facilitator, Southeast Michigan Oral Boards Review Day
3 lecture series



Rosemarie Fernandez, MD

01-19-23

NAME: Phuong Bach Huynh, Ph. D.

CITIZENSHIP: USA

EDUCATION:

Undergraduate:

B.S., Texas A&M University, College Station, TX,
Visualization Science, 08/2007-05/2011

Graduate/ Professional:

M.Ed., Texas A&M University, College Station,
Curriculum and Instruction, 08/2011 – 12/2012
(Committee Chair: Lynne Masel Walters, Ph.D.)

Ph.D., Texas A&M University, College Station, TX,
Technology Enhanced Instruction/eLearning Development / Assessment and Evaluation,
08/2013-12/2017.
Dissertation title: An Examination of Agricultural Education Instructors' Perspectives Of
The Case Study Instructional Technique (Committee Chair: Theresa Pesl Murphrey, Ph.D.)

POSTDOCTORAL/ ADVANCED TRAINING:

Harvard University, Harvard Kennedy School, Cambridge, MA
Harvard Executive Education, Using Evidence to Assess Effectiveness Program
06/2015
Texas A&M University: Quality Matters: *Certified Course Reviewer* 08/2017
Texas A&M University College of Agriculture and Life Sciences
E-Learning Development Certificate: 08/2014-12/2016

ACADEMIC AND ADMINISTRATIVE APPOINTMENTS

Director of Student Assessment and Program Evaluation: *University of Florida College of
Medicine*
Lecturer, Dept. of Community and Family Medicine, College of Medicine, *University of Florida
College of Medicine*
2022-present

Director of Evaluation, Assessment and Education Research: *Baylor College of Medicine*
2018 to 2022

Instructor, Instructor, Dept. of Emergency Medicine, School of Medicine, *Baylor College
of Medicine*
August 2020 to 2022

Director of Assessment and Instructional Technology, *Texas A&M University, School of
Public Health*
2012 To 2018

AWARDS

TAMU Academic Excellence Scholarship Award; 2016
Frank W. Sheppard, Jr. '47 Scholarship Award; 2015
University Staff Council (USC) Staff Scholarship recipient; 2014

GRANT SUPPORT

The Design of an Integrative Case-Based Course with Students Center Stage in the Aggie Public Health Center of Teaching Excellence, Texas A&M University. (Assessment and instruction specialist) 2017-2018 (\$10,000)

TEACHING ACTIVITIES

A. Educational Leadership Roles (see addendum)

1. Director of Evaluation, Assessment and Research, Baylor College of Medicine,
2. Director of Assessment and Instructional Technology, Texas A&M University, School of Public Health

B. Didactic Coursework

1. Co-Course Director, 1/2022, Introduction to Medical Education Research (13 medical students)
2. Lecturer, 01/2018-12/2018, Graphic Designs and Photography (2 courses, 20 undergraduate students each, per semester)
3. Teaching Assistant, 08/2016-12/2016, Survey Instrument, (1 course, 20 graduate students)

C. Curriculum Development Work

1. Integrated Public Health Core Curriculum, Texas A&M University, School of Public Health Assessment and instruction specialist/instructional designer - First year Master of Public Health students
2. Undergraduate Public Health Curriculum, Texas A&M University, School of Public Health Assessment and instruction specialist/instructional designer - Undergraduate Public Health degree seeking students
3. Survey Instrument course, Texas A&M University, College of Agriculture and Life Sciences, Department of Agricultural Leadership, Education and Communication, Course developer/Instructional designer - Graduate students

D. Non-didactic Teaching

1. Graduate Student Training - Texas A&M University, School of Public Health. Public Health Core Curriculum Graduate Assistants (5 graduate students)
Mentor (assessment), trainer (instructional technology), meeting advisor (2-4 hours weekly from 2017-2018)
2. Medical Student Mentoring & Mentorship - Baylor College of Medicine,
 - a. Independent Student Analysis Sub-committee (17 medical students) - Advisor on survey development, analysis, and reporting (3-6 hours weekly from 01/2010-05/2020)
 - b. Service-Learning Program Student Leaders (4-7 medical students) - Advisor on program evaluation (two groups from 2019-2020)

E. Faculty Development or Continuing Medical Education

Texas A&M University, School of Public Health, Instructional Technology and Assessment training for faculty, trainer and course developer (2-4 courses per year from 2012-2018)

F. Lectures and Presentations

National:

1. **Huynh, P.**, Murphrey, T.P., (November 2015). An Analysis of How Student Technology Use Is Evaluated In University Settings. Meeting of the American Evaluation Association, Chicago, IL.
2. **Huynh, P.** (May 2015). Overcoming Low Response Rate for the Online Course Evaluation. Meeting of the Association of Institution Research, Denver, CO.

G. Visiting Professorships (include location, dates)

1. International College, University of Thai Chamber of Commerce, Bangkok, Thailand
July 2016

COMMITTEE AND ADMINISTRATIVE SERVICES

A. Administrative Assignments and Committees

a. University of Florida College of Medicine

1. Committee on Program Evaluation and Student Assessment – Co-Chair
2. Curriculum Committee – Member
3. Clerkship Director Committee – Member
4. Course Director Committee – Member
5. Professionalism Taskforce – Member
6. Phase 1 Student Performance Subcommittee - Member
7. Clinical Skill Exams Committee - Member

b. Baylor College of Medicine, School of Medicine

1. School of Medicine Dean's Cabinet - Member
2. Sub-Internship/Clerkship Director Committees – Non-Voting Member
3. LCME Independent Student Analysis Subcommittee - Advisor
4. LCME Curriculum Objective & Content Subcommittee- Member
5. Curriculum Renewal Executive Workgroup - Member
6. Clinical Learning Environment Workshop Group – Member

c. Texas A&M University

1. College Assessment Liaison Committee - Liaison for School of Public Health
2. Vision 2020 Strategic Planning Committee - Member
3. School of Public Health, Self-Study Committee (Subcommittee Lead)
4. School of Public Health, Curriculum Committee - Member
5. School of Public Health, Student Satisfaction Committee – Member

B. National, Regional or Local Participation in Professional or Voluntary Organizations

1. American Evaluation Association

2. Association of Institution Research
3. National Survey of Institutional Research
4. Association of American Medical Colleges - Southern Group on Educational Affairs

BIBLIOGRAPHY

Peer Reviewed

1. **Huynh, P. B.**, Murphrey, T. P., Dooley, K. E., Strong, Jr., R., & Dooley, L. M. (2019). An Examination of Postsecondary Agricultural Education Instructors' Perspectives of the Case Study Instructional Technique and the Development of a Model to Encourage Use. *Journal of Agricultural Education*, 60(3), 173-190. doi: 10/5032/jae/2019.03173
2. Tran, C. K., Schmidt, R. M., Okoh, J., Appelbaum, N. **P.**, **Huynh, P.**, Chen, W., & Poythress, E. L. (2022). Addressing Impostor Phenomenon Within the First Year of Medical School. *Academic Medicine*, 97(11S), S147.
3. Andrabi, S., Gill, A. C., **Huynh, P.**, Hatfield, C. L., Scheller, S., & Lye, C. (2020). Using Interprofessional Education to Improve Patient Safety Education Amongst Preclinical Medical Students. *Western Journal of Emergency Medicine: Integrating Emergency Care with Population Health*, 21(4.1).
4. Wong, C. K., Berens, P. M., Katta, M. V., Lie, M., Fall, D., Shah, A., ... **Huynh, P.**, & Poythress, E. L. (2021). From education to action: Development and evaluation of a student-directed service learning program. *Medical Teacher*, 1-5.
5. Warner, L. A., Stubbs, E., Murphrey, T. P., & **Huynh, P.** (2016). Identification of the Competencies Needed to Apply Social Marketing to Extension Programming: Results of a Delphi Study. *Journal of Agricultural Education*, 57(2), 14-32.

Abstracts: Given During Last Three Years

1. Harrell JG, **Huynh P**, Ashby F. (April 2023). Service Learning and the Family Medicine Clerkship: Health Disparities Education Through Street Medicine Rounds Participants. Oral Presentation at the 2023 STFM Annual Spring Conference, Tampa FL.
2. Wu V, **Huynh P**, Hatch R, Harrell H. (February 2023) "Are You Thinking What I'm Thinking? Shared Mental Model for Learner Assessment in Clinical Settings." Accepted Poster presentation at the Innovations in Medical Education Conference, Virtual Conference.
3. Tran CK, Schmidt M, Okoh J, Appelbaum NP, **Huynh P**, Chen W, Poythress EL. (November 2022). Addressing Impostor Phenomenon within the First Year of Medical School. Oral Presentation at AAMC Learn Serve Lead Conference, Nashville TN.
4. White-Satcher D, Tatem A, Appelbaum NP, **Huynh P**, Chen W, Gould Suarez M. (November 2022). Elephant in the Room. Poster Presentation at AAMC Learn Serve Lead Conference, Nashville TN.
5. Everett TN, Deen S, Wong C, Shah A, Joshi T, Diaz V, Sheno R, Appelbaum NP, **Huynh P**,

Poythress EL. (November 2022). Investigation of the Benefits of a Dean's Distinction in Service Learning in Undergraduate Medical Education. Poster Presentation at AAMC Learn Serve Lead Conference, Nashville TN.

6. Suh M, **Huynh P**, Garzon M, ...Chary A. (October 2022). Gender and the State of Professionalism Between Physicians and Nurses in the ED. Oral Presentation at the 2022 ACEP Scientific Assembly, San Francisco CA.
7. Rose A, **Huynh P**, Appelbaum N, Kusnoor A, Gill A, Ismail N. (March 2022) "Addressing Challenges in the Clinical Learning Environment through a Virtual Intergenerational and Interdisciplinary Workshop: A Two-Year Experience." Accepted for Oral presentation at the AAMC SGEA Annual Meeting, Virtual Conference.
8. Gill A, **Huynh P**, Hatfield C, Scheller S, DelloStritto R, Landrum P, Aulbach R, Andrabi S. (March 2022) "Good enough? The Pros And Cons of Learning Together And Apart." Accepted for Oral presentation at the AAMC SGEA Annual Meeting, Virtual Conference.
9. Gill A, **Huynh P**, Aulbach R, Hatfield C, Nguyen D, Zagaar M, Keyes SA, Gay L. (March 2022) "Factors that contribute to high learner ratings of an interprofessional education workshop for patient safety and quality improvement." Accepted for Oral presentation at the AAMC SGEA Annual Meeting, Virtual Conference.
10. Appelbaum N, Purkiss J, Ismail N, **Huynh P**, Christner J (April 2021) "Changes in Perception from Preclinical to Clinical Years on Medical School Experiences." Oral presentation to be given April 2021 at the virtual AAMC SGEA Annual Meeting.
11. **Huynh P**, Murphrey T. (October 2020). A Job Analysis for Assessment Positions in Higher Education: Shining a Light on 21st Century Competencies. Oral presentation given at Eval20:Reimagined, Virtual Conference due to COVID-19 concerns.
12. Appelbaum N, Ismail N, Vallejo J, **Huynh P**, Purkiss J. (November 2020). Gender Differences in Academic Performance and Satisfaction During Medical School. Accepted for presentation at the AAMC Learn, Serve, Lead Conference, Washington D.C. Conference canceled due to COVID-19 concerns.
13. Rose, S, **Huynh, P**, Kusnoor, A, Appelbaum, N, Gordy, S, Gill, A, Ismail, N. (September, 2020) "An Intergenerational, Interdisciplinary Workshop to Address Challenges in the Clinical Learning Environment." Poster presented at BCM 2019 Academy of Distinguished Educator's Annual Showcase of Educational Scholarship, Houston, TX.
14. **Huynh P**. (November 2019). Quantity Versus Quality: A Dilemma of Clinical Feedback—The More, the Better?" Round table topic at the AAMC Annual Meeting: Learn, Serve, Lead, Phoenix, AZ.
15. Scheller S, Gill A, **Huynh P**, Andrabi S, Hatfield C, Lye C. (May 2020). Improving Patient Safety Through Interprofessional Education. Accepted for presentation at the QSEN International Forum, Philadelphia, PA. Conference canceled due to COVID-19 concerns.
16. Andrabi S, Gill A, **Huynh P**, Andrabi S, Hatfield C, Scheller S, Lye C. (May 2020). Using Interprofessional Education to Improve Patient Safety Education Amongst Preclinical Medical

Students. Poster presented at CORD Academic Assembly. New York, NY.

17. Poythress E, Stolar A, Kass J, Rapp J, Doane J, **Huynh P** (October 2019) A wellness Initiative for Incoming Medical Students. Poster presented at the CENTILE 2019 Conference, Washington, D.C.

18. Hessel F, Dorland J, Doane J, **Huynh P**, Poythress E, Stolar A, Kass J. (October 2019) “A Novel Student Led Service Learning Program.” Poster presented at BCM 2019 Academy of Distinguished Educator’s Annual Showcase of Educational Scholarship, Houston, TX.

19. Purkiss J, Ismail N, Stelljes L, Hasbini T, Doane J, Ezzell L, **Huynh P**, Christner J. (March 2019) “Evidence of Concordance and Discordance between Fourth-Year Medical Students, Interns, and Program Directors in Identifying Characteristics Necessary for Success during Intern Year.” Poster presented at the AAMC SGEA Annual Meeting, Orlando, FL.

20. **Huynh, P. B.**, Murphrey, T.P., (2016, June). *Computer Technology Competency Needs for Students Enrolled in Colleges of Agriculture*. Paper presented at the meeting of the North American Colleges and Teachers of Agriculture, University of Hawaii, HI

ADDENDUM

Summary of Education Leadership Responsibilities:

1. Director of Evaluation, Assessment and Research, Baylor College of Medicine, 2018-Present

Oversees the daily operations of the Undergraduate Medical Education (UME) - Evaluation, Assessment and Education Research Division at the College.

Provides leadership in collaboratively developing, and contributes to ongoing implementation of, all undergraduate medical education program evaluation processes, learning and performance assessments, and education research projects. Co-directs the LCME Independent Student Analysis Subcommittee with student leaders. Serves as a member of Curricular Objectives and Content Subcommittee for LCME accreditation.

Collaborates with deans, faculty, staff, and trainees in the development and implementation of new learner assessments; develops and maintains confidential data sets and complex reports related to student/trainee performance, curriculum evaluation, and medical education research. Collaborates with members of the Evaluation, Assessment and Education Research Division in the creation of complex data sets; conducts data analysis and report preparation using SPSS or other software packages, as appropriate. Participates in the development and implementation of evidence-based continuous improvement processes related to learner assessments and curriculum evaluations.

2. Director of Assessment and Instructional Technology, Texas A&M University, School of Public Health, 2012-2018

Served as lead in re-accreditation which involved working with faculty, staff, and students from every academic departments and administration units, contributing to writing of content, analyzing data, and reporting outcomes for the self-study. Collaborated with faculty to develop interdisciplinary case-based courses for the new core curriculum, using a variety of innovative teaching methods to transform learning. Developed standard procedures for academic related tools and practices to be used across the school, ensuring

compliance with the accrediting body (SACSCOC institutional effectiveness standards) and the university requirements. Designed training for faculty, staff, and students including but not limited to curriculum and instructional design and the uses and aspects of academic and classroom technology to support learning outcomes. Implemented assessment plans for academic programs, in compliance with the school and university guidelines, resulting in high scoring among other colleges at Texas A&M University.

Director of Research and Educational Development University of Florida College of Medicine Jacksonville Department of Emergency Medicine University Position: Associate Director: Research Administration	Nov 2015-June 2018
Director of Research and Educational Development Department of Emergency Medicine University Position: Assistant Director 3	July 2011-Nov 2015
Director of Research and Educational Development Department of Emergency Medicine University Position Research Coordinator 3	June 2006-June 2011
Senior Adjunct Faculty University of North Florida, Brooks College of Health	2001-2014
UNF Courses Taught: <u>Undergraduate:</u> Evaluation of Health Programs, Community Service Internship Program, Medical Terminology (Lead Faculty), Personal Health Trends, Alternative Healing (Lead): Complimentary& Alternative Medicine	2001-present
<u>Graduate Programs:</u> Management and Leadership in Public Health, Leadership in Public Health, Introduction to Clinical Trials, Evaluation of Health Programs, Essentials of Public Health, Health Promotion Strategies	2001-present
Community Initiatives Director University of Florida College of Medicine/Jacksonville Department of Pediatrics Duval County Health Department: Institute for Health, Policy and Evaluation Research	June 2003-June 2006
Assistant Director Northeast Florida Area Health Education Center Jacksonville, FL	1996-2003
Program Director K.I.D.S. Project Family Resources, Inc., Beaufort, South Carolina	1993-1995
Accreditation Coordinator Family Resources, Inc., Beaufort, South Carolina	1995
Certified Childbirth Education Instructor Alvarado Hospital, San Diego, California	1992-1993
Health Promotion Program Manager South Carolina Department of Health and Environmental Control	

Charleston, South Carolina	1989-1991
Assistant Coordinator Prenatal Program, Planned Parenthood, El Cajon, California	1987

UNIVERSITY OF FLORIDA TRAINING PROGRAMS

- **College of Medicine Jacksonville- LEAP (Leadership, Excellence, Action and Partnership) Program**
2020 Cohort
- **UF Center for Teaching Excellence No Walls Champion** Fall 2020
- **College of Medicine/Jacksonville Leadership Development Program** 2013-2014
- **Management Series/Courses:**
 - Fair & Legal Workplace
 - Relationship Strategies
 - Surviving Problem Employees
 - Interviewing & Hiring
 - Power of Feedback
 - Coach for Success
 - Preventing Sexual Harassment
- **Institutional Review Board Training**
 - HIPAA for Researchers
 - NIH Protecting Human Subjects Research Participants
 - CITI: Collaborative Institutional Training Initiative
- **Budgetary & Staffing Courses**
 - Effort Fundamentals
 - Effort Reporting
 - Effort Management
 - MyUF Payments
 - Budget Management for Sponsored Programs
 - Post Awards
 - Protecting Social Security Numbers

AWARDS

Society of Teaching Scholars University of Florida College of Medicine	2021
Outstanding Adjunct Teaching Award University of North Florida	2019
Outstanding Researcher Award University of Florida College of Medicine Jacksonville Department of Emergency Medicine	2015
Superior Accomplishment Award University of Florida University of Florida Health Sciences Center	2015
Recognition of Outstanding Mentorship University of North Florida Brooks College of Health Department of Public Health	2015

Partnership Appreciation Award 2012
University of North Florida
Brooks College of Health
Department of Public Health

Outstanding Dissertation: Quantitative 2011
Doctoral Research Seminar
University of North Florida, College of Education & Human Services
Thomas Mulkeen Award Finalist

Distinguished Emergency Medicine Faculty Award 2010
University of Florida College of Medicine, Jacksonville
Department of Emergency Medicine

Educator of the Year 2004
Clinical/Medical Health Education
FAHPERD

Exceptional Dedication to the Education and Training 1999
of Medical Students Award
University of Florida College of Medicine/Jacksonville
Department of Family Practice

PROFESSIONAL MEMBERSHIPS, APPOINTMENTS AND ACTIVITIES

President, University of North Florida Public Health Advisory Board 2017-present

SGEA Faculty Development Special Interest Group 2022-present

Florida Council of Deans- Faculty Development UGME/GME 2022-present

Alternate, Institutional Review Board (IRB-01) University of Florida 2017-2019
Society of Academic Emergency Medicine 2009-2018

Research Director's Interest Group (SAEM) 2009-2018

National Council of University Research Administrators (NCURA) 2008-2010

Florida Public Health Association 2001-2006

COMMITTEES

Member, UF CME Advisory Board 2023-present

Member, Medical Education Development Project 2022-present

Workplace Violence Sub-Committee Meeting-Training & Staff Resources 2020-2021

Chair, UF COM-J Interprofessional Working Group 2019-present

UF COM-J Wellness Committee	2019-2021
UF College of Medicine Curriculum Committee	2018-present
UF College of Medicine Committee of Program Evaluation and Student Assessment	2018-present
Member, Data Safety Monitoring Board Culturally Sensitive, Primary Care Clinic-Based Interventions Health-Smart, Carolyn Tucker, PhD	2017-present
Co-Chair: Scholarly Oversight Committee: Pediatric Emergency Medicine, Pediatric Infectious Disease and Child Crisis Team Fellowships	2006-2018
Member: Interview Committee Pediatric Emergency Medicine Fellows	2006-2018
Member: Interview Committee Emergency Medicine Residents	2006-2018
Member: Data and Safety Monitoring Board Jacksonville System of Care Initiative	2013-2016
Associate Dean for Faculty Affairs, Faculty Development Committee Co-Chair of the Leadership Development Committee	2013-2014
Chair: University of Florida Research Managers Campus Research Committee	2009-2012
Chair: Tobacco Cessation Employee Program and Tobacco-free Campus Committee	2008-2010
Member: EM Residency Medical Education Committee & PEDS EM Fellowship- Accreditation Process	2006-2013
Member: UF & Shands Jacksonville Integrative Medicine Advisory Board	2006-2008
Healthy Jacksonville 2010 Obesity Task Force Member	2003-2010
Diabetes Task Force and Asthma Task Force	2003-2010
Vice-Chair Oral Health Care for Children Coalition	2003-2010
Member: Shands Breastfeeding Task Force	2003-2006
Member: State Lead for the Florida Outreach Childbirth Education Program	2000-2003
Member: Jacksonville Injury Prevention Coalition	2000-2003
Member: Duval County Immunization Task Force	1999-2007
Secretary: Community Health Services Committee (Florida AHEC Network)	1998-2003
Vice Chair: Abstinence Only Education Program for Baker & Nassau Counties	1997-2002

GRANTS AND CONTRACTS

Funding Awards: Chronologic Order

Agency	Grant Title & Dates	Total Award
United Way: KIDS Project, Beaufort, South Carolina 1994	Teenage Pregnancy Prevention Program targeting high-risk youth Developed the program, timelines and project plan, completed the grant application, provided grant management, reports, and program implementation Grant Writer-Program Manager	\$100,000
March of Dimes: KIDS Project, Beaufort, South Carolina 1994	Teenage Pregnancy Prevention Program targeting high-risk youth Developed the program, timelines and project plan, completed the grant application, provided grant management, reports, and program implementation Grant Writer-Program Manager	\$30,000
Federal HRSA SPRANS Grant and Florida Title V Grant 2001	Abstinence Only Education, Baker County Health Department Developed the program and work plan, completed the grant application with Baker County Health Department Director, Kerry Dunlavey, developed the evaluation plan for the grant and served as an evaluator of the program Grant-Writer, Program Evaluator	\$300,000
University of Florida Jacksonville 2004	Dean's Research Fund Childhood Obesity Prevalence and Physician Training Program Developed the research protocol and IRB, budget, and served as the administrator of the grant dollars Grant Writer, Grant Admin, Co-Investigator	\$3,000
Educational American Academy of Pediatrics 2004	CATCH Implementation Grant Childhood Obesity Screening and Educational Program for Pediatricians and Patients Grant Writer, Grant Admin, Co-PI	\$5,000
American Academy of Pediatrics 2004	Research Grant Prevalence of Pediatric Asthma and Outpatient Follow-up Grant Writer, Research Design, Grant Admin, Co-PI	\$3,000
American Academy of Pediatrics 2005	CATCH Planning Grant Breastfeeding Research Grant, Writer, Research Design, Grant Admin, Co-PI	\$5,000

UF Deans Research Grant 2005	Breastfeeding Barriers Among African American Women Grant Writer, Research Design, Grant Admin, Co-PI	\$3,000
Aetna Foundation Regional Community Health Grant 2006	Improving Oral Health of Duval County (FL) Children Grow a Healthy Smile Grant Writer, Grant Admin, Program Evaluator, Co-PI	\$50,000
UF Dean's Grant 2007	Impact of an Immunization Registry Program on Children Aged 6-24 months who present to the ED with Fever Without a Source Grant Writer, Research Design, Grant Admin, Co-I	\$4,635
UF Dean's Grant 2007	Pupillary Response to Light is Preserved in Patients Undergoing Pharmacologic Neuromuscular Blockade for Rapid Sequence Intubation Grant Writer, Research Design, Grant Admin, Co-I	\$4,360
UF Deans Grant 2007	Emergency Medicine Attrition and the Application of Margin Grant Writer, Research Design, Grant Admin, PI	\$10,000
Agency for Healthcare Research and Quality 2008-2012	Reducing Risk by Engineering Resilience into Health Information Technology for Emergency Medicine Site Coordinator	\$900,000
Educational: UF Dean's Grant 2008	Perception of Simulation as an Educational Modality for Teaching Pediatric Emergency Medicine to Emergency Medicine Residents Grant Writer, Research Design, Grant Admin, Co-I	\$6,681
UF Dean's Grant 2009	Incidence and Recognition of Elevated Blood Pressure in the Pediatric Emergency Department Grant Writer, Research Design, Grant Admin, Co-I	\$4,800
UF Dean's Grant 2009	Ultrasound Guided Intra-articular Anesthesia in Anterior Shoulder Dislocations Grant Writer, Research Design, Grant Admin, Co-I	\$3,200
UF Dean's Grant 2009	Radiation Exposure in the Emergency Department Grant Writer, Research Design, Grant Admin, Co-I	\$3,950
Sponsored Trial 2007-2009	A Comparison of AnaVip and Cro-Fab in the Treatment of Patients with Crotalinae (Pit Viper) Envenomation: A Randomized, Prospective, Blinded, Controlled, Comparative, Multi-Center Study Contract Negotiation, Contract Admin, Co-PI	\$34,000
Sponsored Trial 2007-2009	Multi-center, randomized intervention to compare the effects of 2 dietary programs on cardiometabolic risk factors in subjects with metabolic syndrome. Contract Negotiation, Contract Admin Co-I	\$254,000

Educational: Florida Medical Malpractice Joint Underwriter's Association 2009- 2011	Pediatric Emergency Care Safety Initiative Grant Writer, Grant Manager and Co-I Curriculum to teach pediatric emergency care "readiness" and preparation in all Florida emergency departments and EMS agencies on a voluntary basis, with emphasis in rural communities. (Providers in practice and trainees)	\$451,704
Educational: Area Health Education Center 2007-2010	Tobacco Cessation Implement Smoke-free hospital, teach smoking cessation principles to health professions students (n=900), and complete a study in regard to Third-hand Smoke Grant Writer, Grant Admin, Co-I	\$90,000
National Institute of Health – Arthritis and Musculoskeletal and Skin Disease	Awarded to University of North Carolina, Chapel Hill Sub-contract to UF/Jax EM Applying Biopsychosocial Model to Post-MVC Pain Development in African Americans 2010 Contract Administrator, Co-I	\$63,000
National Institute of Health- Arthritis and Musculoskeletal and Skin Disease 2010	Awarded to University of North Carolina, Chapel Hill Sub-contract: UF/Jax EM Genetic Predictors of Acute and Chronic Musculoskeletal Pain After MVC. Role: Research Director/Coordinator and Investigator onsite fiscal management. Contract Negotiation & Administrator, Co-I	\$60,000
Clinical Trial 2010- 2011	A prospective, single-centre study to evaluate the use of LiquiBand™ skin adhesive in the closure of scalp wounds. Contract Negotiation & Administrator, Co-I	\$26,700
UF Dean's Grant 2010	Quantitative Capnometry: the next vital sign? Grant Writer, Research Design, Grant Admin, Co-I	\$4,800
UF Dean's Grant 2010	Ultrasound Evaluation of Cranial and Long Bone Fractures in Cadaver Models Grant Writer, Research Design, Grant Admin, Co-I	\$5,000
Educational: Break the Cycle Children's Environmental Health & Disparities	Third-hand Smoke Education and its Impact on Parents who Smoke and Present to the Pediatric Emergency Department with their Children. Grant Writer, Research Design & Content, Grant Admin, Co-I Educate emergency physicians on educating parents regarding third-hand smoke	\$3,000
National Institute of Health 2010	National Heart, Lung, Blood Institute System Dynamics Modeling of Emergency Department and Hospital Crowding. Grant Management	\$365,141

Robert Wood Johnson Foundation 2010-2016	Medicalizing Patient Safety: Exploring barriers to and enablers of social change in health care: Lessons from the patient safety movement. Grant Management	\$334,605
National Center for Advancing Translational Science awarded to University of North Carolina, Chapel Hill. 2011	Pilot Study: Outcome of elderly patients treated in the emergency department after motor vehicle accidents. Contract Administrator, Research Director/Coordinator, Co-I	\$15,000
Educational: Human Resources and Services Administration (HRSA) Faculty Development and Fellowship in Community and Societal Pediatrics 2011-2016	Development of Education/Learning curriculum regarding Community and Societal Pediatrics (CSP) for CSP Fellows Education Specialist; Co-I	\$912,000
UF Dean's Grant 2011	End Tidal Carbon Dioxide Measurements as a Predictor of Severity of Illness, Grant Writer, Research Design, Grant Admin, Co-I	\$10,000
UF Dean's Grant 2011	The Relationship of ETCO2 to SVO2 and Lactate During Early Goal Directed Therapy for the Treatment of Severe Sepsis and Septic Shock Grant Writer, Research Design, Grant Admin, Co-I	\$10,000
Deans Grant 2011	Contribution of Ethanol to the Serum Osmol Gap Grant Writer, Research Design, Grant Admin, Co-I	\$10,400
Clinical Trial 2012	Evaluation of Ecallantide for the Acute Treatment of Angiotensin Converting Enzyme Inhibitor Induced Angioedema Contract Negotiation & Administrator, Co-I	\$52,911
National Institute of Health Awarded to University of North Carolina, Arthritis and Musculoskeletal and Skin Disease. Chapel Hill Sub-contract to UF/Jax EM 2012	Outcome of African American Patients Treated in the Emergency Department After Motor Vehicle Collision (Pilot study) Contract Administrator, Co-I	\$73,690

Educational: Children's Miracle Network 2012	Impact of Video Discharge Instructions from the Emergency Department in Regard to Caregiver Understanding of their Child's Fever and Closed Head Injury Co-I Funding was for new TV/Video Equipment; Target- providers and patients –	\$8,000
Educational: Riverside Hospital Foundation 2012	Development of ED Triage Tool and Algorithm for Palliative Care and educate faculty and residents on its use Grant Writer, Grant Admin, Co-I	\$41,307.50
Clinical Device Trial 2012	Appy Score Contract Negotiation & Administrator, Co-I	\$50,000
DDHS, National Institute of General Medical Sciences 2013	System Dynamics Modeling of Multi-level Coping Responses to Understand Resilience Site Coordinator, Grant/Contract Admin	\$763,000
Prime: Medstar Health Research Institute AHRQ	Cognitive Engineering to Understand and Support Complex Decision Making and Problem Solving in Acute Care Grant Management	\$187,825
University of Mississippi 2014	Rapid Administration of Carnitine in sEpsis (RACE) Grant Management and Study Management	\$46,000
Patient Centered Outcomes Research Institute (PCORI) 2014	An Emergency Department -ED-to-Home Intervention to Improve Quality of Life and Reduce Hospital Use Site Coordinator & Grant Administration EM Jax Site	\$301,360
Educational: Florida Medical Malpractice Joint Underwriters Association 2014	Pain Assessment and Management Initiative (PAMI): A Patient Safety Project Grant Writer, Project Director, Co-I Curriculum to teach healthcare providers how to assess pain and alternatives to opioids for pain management by advancing innovation and safety in pain education, patient care and research	\$694,652
Society Critical Care Medicine 2015	The Role of DysFunctional HDL in Sepsis Co-I, Grant and Study Management	\$50,000
Educational: SIMETRI 2015	Advanced Modular Manikin Co-I, Educational Specialist- Use of advance manikins in simulation training	\$50,000
Clinical Trial Redhill	Randomized, Placebo-Controlled, Phase 3 Trial of RHB-102 (Ondansetron 24 mg Bimodal Release Tablets) for Presumed Acute Gastroenteritis or Gastritis Contract Negotiation & Administration, Study Manager	\$58,639

Clinical Trial Siemens 2015	D-Dimer DVT/PE Exclusionary Sample Collection Project, Co-I, Contract Negotiation & Study and Grant Management	\$84,749
Educational: Florida Medical Malpractice Joint Underwriters Association 2016	Emergency Medicine Patient Safety & Education Center; Co-I, Grant Writer, Project Director Curriculum to update pediatric emergency care standard practices for emergency medicine providers: physicians (practicing and in training), nurses, EMTs	\$691,114
The Role of DysFunctional HDL in Sepsis 2016	K-L2 Award Clinical Translational Science Institute, Grant and Study Management	\$109,165
Clinical Trial Alere 2016	Evaluation of the Clinical Performance of the Alere™ iRSV Test, Co-I, Grant Management	\$52,000
UF Dean's Grant 2016	Pain and Its Impact in Emergency Department Revisits Within 30 Days of an Index Visit or Hospital Discharge Co-I, Research Design, Grant Management	\$9,996
Educational: Martin Smith Quality Award 2016	EMS-ED Handoff- A Quality Improvement Project Co-I, QI Design, Grant Management Train providers on safe hand-offs	\$25,000
NIGMS- 2016	The Role of Dysfunctional HDL in Sepsis - 1K23GM115690-01A1, Grant and Study Administration	\$720,679
NIH- National Institute on Mental Health 1U01MH110925- 01 2016	Longitudinal Assessment of Post-Traumatic Syndromes University of North Carolina at Chapel Hill Prime Grant and Study Administrator	\$304,050
Clinical Trial Alere- RSV2 2016	Nasopharyngeal Swab Specimen Collection for the Detection of Respiratory Syncytial Virus (RSV)	On-going
Clinical Trial Alere- Flu 2016	Evaluation of the Clinical Performance of the Modified Alere I Influenza A&B Test	\$77,813
Clinical Trial Alere- Strep 2017	Evaluation of the Clinical Performance of the Modified Alere™ i Strep A	\$31,755
Deans Grant- DeVos	Understanding Patient Factors Associated with Readmission for Sepsis	\$9,800

Educational: Florida Medical Malpractice Joint Underwriter's Association 2018- 2020	PAMI 3.0 Co-I, Project Director, Grant Writer Update the curriculum to teach healthcare providers how to assess pain and alternatives to opioids for pain management, and to further develop innovative tools and resources regarding pain management and to research strategies.	\$999,868
Marcus Foundation through John Hopkins & Emory 2018-present	VICTAS (Vitamin C, Thiamine and Steroids in Sepsis \$7,000/pt enrolled	On-going
Dean's Grant- Parsons	Fertility and Childbearing Trends Among Female Emergency Medicine Physicians	\$10,000

Applications Not Funded

Title & Dates	Total Award
Developed Concept Paper Application for Bellsouth Foundation Website Development: Childhood Obesity Prevention	\$30,000
Developed program plan, completed the application, budget, and evaluation plan for an American Dental Association: Grow a Healthy Smile grant	\$50,000
Developed program plan, completed the application, budget, and evaluation plan for Jaguars Foundation: Grow a Healthy Smile	\$90,000
Co-authored the Letter of Intent for the Arthur Vining Foundation: Simulation Education	\$200,000
Co-Investigator EMSC-Targeted Issues Grant Language Barriers in the Pediatric Emergency Care System "Do you Speak Safety?"	\$865,820.06 over 3 years
Schwartz Center for Compassionate Health Care Development of an ED Triage Tool & Algorithm for Palliative Care, 2012 Co-I	\$38,400

PUBLICATIONS

Refereed Publications

Kalynych C, Edwards E, West D, Snodgrass C, Zenni E. Tuesday's teaching tips- evaluation and feedback: A spaced education strategy for faculty development. *MedEdPORTAL*. 2022; 18: 11281. doi: 10.15766/mep_2374-8265.11281 PMID: 36475014

Woodruff G, Palmer L, Fontane E, **Kalynych C**, Hendry P, Thomas A, Crandell M. Nine years

of pediatric gunshot wounds: A descriptive analysis. *Prev Med Rep.* 2022;28:101890. Published 2022 Jul 5.

<https://doi.org/10.1016/j.pmedr.2022.101890>

Sheikh S, Booth-Norse A, Holden D, Henson M, Dodd C, Edgerton E, James D, **Kalynych C**, Smotherman C, Hendry P. Opioid Overdose Risk in Patients Returning to the Emergency Department for Pain. *Pain Med.* 2021 Sep 8;22(9):2100-2105.

<https://dx.doi.org/10.1093/pm/pnab047> . PMID: 33560418

Sheikh S, Fische J, Norse A, Henson M, James D, Sher W, Lott M, **Kalynych C**, Hendry P. Comparing Pain Intensity Using the Numeric Rating Scale and Defense and Veterans Pain Rating Scale in Patients Revisiting the Emergency Department. *Cureus.* 2021 Aug 27;13(8):e17501. <https://dx.doi.org/10.7759/cureus.17501> eCollection 2021 Aug. PMID: 34603880

Taneja A, Wylie T, **Kalynych C**, Helmi H, Fische J. Development of a Longitudinal Research Curriculum for Pediatric Emergency Medicine Fellowship. *West J Emerg Med.* 2022 Jan 1;23(1):26-29. <https://dx.doi.org/10.5811/westjem.2021.10.52854> PMID: 35060856

Guirgis FW, Black LP, DeVos E, Henson M, Ferreira J, Miller T, Rosenthal M, Leeuwenburgh C, **Kalynych C**, Moldawer L, Jones L, Crandall M, Reddy ST, Gao H, Wu S, Moore F. Lipid intensive drug therapy for sepsis pilot: A Bayesian phase I clinical trial. *J Am Coll Emerg Physicians Open.* 2020 Nov 18;1(6):1332-1340. <https://dx.doi.org/10.1002/emp2.12237> eCollection 2020 Dec. PMID: 33392541

Kalynych C, Edwards L, West D, Snodgrass C, Zenni E.

Tuesdays Are Great for Teaching Tips: A Spaced Education Strategy for Faculty Development. *J Grad Med Educ.* 2021 Jun;13(3):434-435. <https://dx.doi.org/10.4300/JGME-D-20-01249.1> Epub 2021 Jun 14. PMID: 34178279

Sheikh S, Booth-Norse A, Smotherman C, **Kalynych C**, Lukens-Bull K, Guerrido E, Henson M, Gautam S, Hendry P. Predicting Pain-Related 30-Day Emergency Department Return Visits in Middle-Aged and Older Adults [published online ahead of print, 2020 Sep 2]. *Pain Medicine*, pnaa213, <https://doi.org/10.1093/pm/pnaa213> PMID 32875332

Guirgis FW, Black LP, Rosenthal MD, Henson M, Ferreira J, Leeuwenburgh C, **Kalynych C**, Moldawer LL, Miller T, Jones L, Crandall M, Reddy ST, Wu SS, Moore FA. LIPid Intensive Drug therapy for Sepsis Pilot (LIPIDS-P): Phase I/II Clinical Trial Protocol of Lipid Emulsion Therapy for Stabilizing Cholesterol Levels in Sepsis and Septic Shock. *BMJ Open.* 2019 Sep 18;9(9):e029348. <https://dx.doi.org/10.1136/bmjopen-2019-029348>. PMID: 31537565

Schneider A, Williams DJ, **Kalynych C**, Wehler, M, Weigel, M. Physicians and nurses work time allocation and workflow interruptions in emergency departments: A comparative time-motion study across two countries. *Emerg Med J*, Aug 2020; <http://dx.doi.org/10.1136/emered-2019-208508> PMID: 32759349

Parsons M, **Kalynych C**, Johns T, Scicchitano M, Lott M, Fernandez R. IMPACT survey: Impaired fecundity in physicians and association with clinical time. July 2020 <https://doi.org/10.1002/emp2.12170>

Zeretzke-Bein C, McCall J, Wylie T, Muhammad AB Chowdhury, Balafreshnan M, Hendry P,

Kalynych C, Chung H. Using an online vaccination registry to confirm tetanus status in children with Tetanus-prone wounds. *West Jem*; June 2020, DOI:10.5811/westjem.2020.6.46582 PMID: 32970567

Fernandez R, Rosenman E, Broliar S, Chipman A, **Kalynych C**, Vrablik MC, Keebler JR, Lazzara EH. An Event-based Approach to Measurement: Facilitating observational measurement in highly variable clinical settings in AEM Education and Training. *Volume 4 (2): 147-153 April 2020* <http://dx.doi.org/10.1002/aet2.10395> PMID: 32313861

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Duval County Community Policy Review Initiative Infant Mortality Report, September 2004

***LECTURES AND POSTERS PRESENTED AT PROFESSIONAL CONFERENCES
(INVITED)***

International

Posters

DeVos E, Patel S, Ryder JA, McIntosh M, **Kalynych CK**. Grounded by a Pandemic: Implementing a Domestically-based Global Emergency Medicine Resident Elective. CUGH21 Virtual. Consortium of Universities for Global Health. March 12, 2021. Peer-reviewed, poster selected from abstract submission

Duran P, Guirgis F, **Kalynych C**, Bryant L. Emergency Department Technicians Can be Successfully Taught Ultrasound Guided Peripheral Intravenous Access Using Asynchronous Educational Techniques. Poster Presentation. 3rd Annual World Congress Ultrasound in Medical Education Portland, OR. October 10, 2014.

Suen A, Hendry P, **Kalynych C**, Paul J. A six year retrospective review of pediatric firearm injuries. Poster Presentation. Seventh Mediterranean Emergency Medicine Congress Marseille, France. September 8-11, 2013.

Ashbaugh H, Simon L, **Kalynych C**, Chadwick S, Kraemer D. Determination of accuracy in Emergency Department dosing for rapid sequence intubation. Poster Presentation. Seventh Mediterranean Emergency Medicine Congress Marseille, France. September 8-11, 2013.

Hendry P, Zima G, Wylie T, **Kalynych C**, Burch J. Improving emergency medicine (EM) resident and pediatric emergency medicine (PEM) fellow knowledge of language barriers (LB) in the emergency department (ED) setting. Poster Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Hendry P, **Kalynych C**, Webb K, Westenbarger R, Lissoway J, Kumar V. A prospective, single-center study to evaluate the user of LiquiBand™ skin adhesive in the closure of scalp wounds. Poster Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. Poster Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Ricke TL, Hendry PL, **Kalynych C**, Buzaianu EM, Kumar V, Redfield C. Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. Poster Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Kalynych C, Vukich D, Kumar V, Lott M, Buzaianu E. Application of margin in live (MIL) theory to remediation and attrition rates among emergency medicine residents. Poster

Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Wylie T, **Kalynych C**, McIntosh M, Godwin S, Kumar V, Naeem S, Chadwick S. Perception of simulation as an educational modality for teaching emergency medicine residents. Poster Presentation. International Conference on Emergency Medicine Dublin, Ireland. June 27-30, 2012.

Zeretzke CM, Hendry P, **Kalynych C**. Utilization of simulation for mass casualty training of emergency medicine residents and pediatric emergency medicine fellows. Poster Presentation. Mediterranean Emergency Medicine Congress Annual Meeting. Kos, Greece. September 10-14, 2011.

Kalynych, C., Vukich, D., Caro, D., et al Application of Margin in Life Theory to Remediation and Attrition Rates among Emergency Medicine Residents. Oral and Poster Presentation, Association for Medical Education in Europe. Vienna, Austria. August 26-30, 2011.

DeVos, E., McIntosh, M., **Kalynych, C.**, Akhlaghi, M., Wylie, T. Curriculum development for an international emergency medicine rotation. Poster presentation. International Conference on Emergency Medicine Poster Singapore, June 2010.

Zeretzke C, McIntosh M, Wylie T, **Kalynych C**, Wood D. Impact of an immunization registry program on children aged 6-24 month who present to the ED with fever without a source. Valencia, Spain. Fifth Mediterranean Emergency Medicine Congress September 14-17, 2009.

Oral Presentations/Lectures

Hendry P, **Kalynych C**, Johnson J, Carden D, Kraemer D. Health literacy and patient activation levels in Emergency Department patients. Oral Presentation. Seventh Mediterranean Emergency Medicine Congress Marseille, France. September 8-11, 2013.

Ashbaugh H, Simon L, **Kalynych C**, Chadwick S, Kraemer D. Determination of accuracy in Emergency Department dosing for rapid sequence intubation. Oral Presentation. Seventh Mediterranean Emergency Medicine Congress Marseille, France. September 8-11, 2013.

Ismail S, McIntosh M, Joseph M, Wylie T, **Kalynych C**, Butterfield R, Smotherman C, Kraemer DF. Impact of video discharge instructions from the Emergency Department in regard to caregiver understanding of their child's fever and closed head injury. Oral Presentation. Seventh Mediterranean Emergency Medicine Congress Marseille, France. September 8-11, 2013.

Zeretzke, C(f), Hendry PL, **Kalynych C**. Utilization of Simulation for Mass Casualty Training of Emergency Medicine Residents and Pediatric Emergency Medicine Fellows. Sixth Mediterranean Emergency Medicine Congress, Kos, Greece September 10-14, 2011.

Kalynych, C., Vukich, D., Caro, D., et al Application of Margin in Life Theory to Remediation and Attrition Rates among Emergency Medicine Residents. Oral and Poster Presentation, Association for Medical Education in Europe. Vienna, Austria. August 26-30, 2011.

National

Poster Presentations

Kalynych C, Edwards E, West D, Snodgrass C, Zenni E. Tuesdays are Great for Teaching Tips: Spaced Education Strategy for Faculty Development Journal of Graduate Medical Education. ACGME Annual Education Conference: Meaning in Medicine: Rebuilding Connections. April 2022.

Kalynych C, Edwards L, West D, Snodgrass C, Zenni E. Tuesdays are Great for Teaching Tips: A Spaced Education Strategy for Faculty Development. Oral Poster Presentation, GEA Regional Spring Meeting, April 2021.

Sheikh S, Fishe J, James DE, Henson M, Hendry P, **Kalynych C**, Bowman J, Norse A. Comparing the Numeric Rating and Defense Veterans Pain Scales in Patients Revisiting the Emergency Department. American Academy of Pain Medicine's 37th Annual Meeting, virtual format. April 23-25, 2021.

Fallucco, E. Leung, K., **Kalynych, C**. Child PRITE Micro-Quizzes for Psychiatry Residents and Child Psychiatry Fellows: A Pilot Study. AADPRT March 6, 2020

Guirgis FW, Reddy ST, Leeuwenburgh C, Dodani S, Grijalva V, Bowman J, **Kalynych C**, Pearson TA, Moldawer L, Moore FA. Cholesterol Efflux Capacity by High Density Lipoprotein is Impaired in Older Severe Sepsis Patients in Comparison to Healthy, Age and Sex-matched Controls. Shock Society's 40th Annual Conference on Shock. Ft. Lauderdale, FL. June 3-6, 2017.

Gupta T, Guirgis FW, Javed A, DeVos E, Smotherman C, Sterling SA, Puskarich MA, **Kalynych CJ**, Jones AE. Influence of Sequential Organ Failure Assessment component score in predicting in-hospital mortality from sepsis: Does the type of organ failure matter? Lightning oral presentation at SAEM Annual Meeting. Orlando, FL. May 18, 2017.

Javed A, Guirgis FW, Devos E, Sterling SA, **Kalynych CJ**, Bowman J, Moore FA, Jones AE. Actual versus Ideal Bodyweight for volume resuscitation in Sepsis. Lightning oral presentation at SAEM Annual Meeting. Orlando, FL. May 19, 2017.

Sheikh S, Hendry P, **Kalynych C**, Davidman R, Miller T. A Pain Management and Dosing Pocket Guide for the ED Practitioner- a patient safety tool created by the Pain Assessment and Management Initiative (PAMI). CORD Academic Assembly - Innovations. Ft. Lauderdale, FL. April 28, 2017.

Hendry P, Sheikh S, **Kalynych C**, Davidman R, Sierakowski J, Miller T, Hernandez D. Child Life 101 Curriculum For Emergency Departments (Eds): Using Non-Pharmacologic Methods And A Distraction Toolbox To Relieve And Manage Pain And Anxiety. CORD Academic Assembly. Ft. Lauderdale, FL. April 28, 2017.

Abdur-Rhaman M, Joseph M, **Kalynych C**, Kraemer D, Smotherman C, Lott M. Evaluating the effectiveness of an Emergency Department based referral to a community asthma prevention program on reducing Emergency Department utilization for asthma. APHA 2016 Annual Meeting. Denver, CO. October 29 - November 2, 2016.

Patel R, Sheikh S, Hendry P, **Kalynych C**, Curtis M, Roycroft C, Sierakowski J, Schneegans S, Moorman-Li R, Cammilleri J, Warden C. An emergency department discharge planning toolkit

to improve pain management and education – a pilot study. Florida Society for Healthcare Risk Management and Patient Safety Annual Meeting & Education Conference. Tampa, FL. August 11-12, 2016.

Guirgis F, Dodani S, Robinson T, Reynolds J, **Kalynych C**, Moldawer L, Leeuwenburgh C, Reddy ST, Moore FA. The relationship of dysfunctional high density lipoprotein to inflammatory cytokines and adverse outcome in severe sepsis. Thirty-Ninth Annual Conference on Shock. Austin, TX. June 11-14, 2016.

Guirgis, F. Jones, L., McLaughlin, L., Cannon, C., Ferreira, J., **Kalynych, C.** et.al., Sepsis Alert Protocol Reduces Inpatient Mortality for Patients Presenting to the Emergency Department with Sepsis. Society of Academic Emergency Medicine, New Orleans, May 9-13, 2016.

Guirgis F, Dodani S, Reynolds J, **Kalynych C**, Moldawer L, Leeuwenburgh C, Reddy ST, Moore FA. Dysfunctional HDL predicts poor outcome in patients with severe sepsis. SAEM Annual Meeting. New Orleans, LA. May 13, 2016.

McGuire M, Joseph M, Karsenti J, Garvan C, Pieper P, **Kalynych C**, University of Florida COM-Jacksonville Department of Emergency Medicine and Department of Radiology, UF College of Nursing-Jacksonville, UF College of Nursing-Gainesville. Optimal Design of Intraosseous Needles Based on the Average Anterior Cortical Depth of the Tibial Bone in Children. Poster Presentation. Society of Academic Emergency Medicine San Diego, CA. May 12-15, 2015.

Gray-Eurom K, Hale M, Thomas M, **Kalynych C**, Department of Emergency Medicine, University of Florida COM-Jacksonville Department of Emergency Medicine. The Care 2 Committee: Improving Efficient Use of the Emergency Department through a Review of High Use Patients. Poster Presentation. Society of Academic Emergency Medicine San Diego, CA. May 12-15, 2015.

Hendry PL, Herter BL, Card KR, McCoy ST, Nelson J, Henson M, Valdes H, **Kalynych C**, Department of Emergency Medicine, University of Florida COM-Jacksonville, Jacksonville, FL, Florida Department of Health Bureau of Emergency Medical Oversight, Tallahassee, FL. The Epidemiology of Pediatric Emergency Medical Services (EMS) Encounters and Cardiac Arrests Utilizing Incident Level Data From Florida's EMS Tracking and Reporting System (EMSTARS) Over Five Years (2009-2013). Poster Presentation. Society of Academic Emergency Medicine San Diego, CA. May 12-15, 2015.

Wilkes T, Hale M, Simon L, **Kalynych C**, Kraemer D, Smotherman C. Comparison Of Single Use vs Flexible Fiberoptic Bronchoscope In A Simulated Difficult Intubation. AAEM Scientific Assembly. Austin, TX. March 3, 2015.

Kalynych C, Osian S, McIntosh M, Hendry P. ED palliative care tool development through patient and provider interviews. AAHPM and HPNA Annual Assembly. Philadelphia, PA. February 25-28, 2015.

Guirgis F, Wears R, **Kalynych C**. Long-Term Organ Dysfunction After Severe Sepsis. Poster Presentation. 2015 Critical Care Congress Phoenix, AZ. January 17-21, 2015.

Duran-Gehring P, Bryant L, **Kalynych C**, Hendry P. Ultrasound Guided Peripheral Intravenous Access by Emergency Department Technicians is a Safe and Effective Strategy for Avoiding

Unnecessary Central Venous Catheters. Poster Presentation. American College of Emergency Physicians Research Forum Chicago, IL. October 28, 2014.

Carden D, Hendry P, **Kalynych C**. An Emergency Department-to-Home Intervention to Improve Patient Activation. Poster Presentation. American College of Emergency Physicians Research Forum Chicago, IL. October 28, 2014.

Guirgis FW, Williams, DJ, Patel N, **Kalynych CJ**, Wears RL. The Relationship of Fluid Type, Volume, And Chloride-content To Serum Creatinine in Patients with Severe Sepsis or Septic Shock. SAEM Annual Meeting, Dallas, TX. May 13-17, 2014.

Patel D, Wylie T, Joseph M, Maraqa N, **Kalynych C**. Uropathogen resistance in the Pediatric Emergency Department. Presentation. Society of Academic Emergency Medicine Dallas, TX. May 13-17, 2014.

Duran-Gehring P, McKee K, Goggans S, Huynh T, **Kalynych CJ**, Guirgis FW. Ultrasound confirmation of central venous catheter placement. Presentation. Society of Academic Emergency Medicine Dallas, TX. May 13-17, 2014.

Sheikh S, Hendry P, Lynch S, **Kalynych C**, Aldridge P, Kraemer D. Characterizing demographic and health data of self-poisoning with suicide intent in patients between the ages of 0-21 years reported to Florida poison centers from 2003-2013. Presentation. Society of Academic Emergency Medicine Dallas, TX. May 13-17, 2014.

Lynch S, Freer C, Bautista M, **Kalynych C**, Hendry P. ADHD in the Emergency Department: Implications for Primary Care? Poster Presentation. 22nd NIMH Conference on Mental Health Services Research (MHSR 2014): Research in Pursuit of a Learning Mental Health Care System Bethesda, MD. April 23-25, 2014.

Guirgis F, Williams, DJ, Hardy M, Jones AE, **Kalynych C**, Wears R. Arterial-end-tidal CO₂ difference predicts mortality in patients with severe sepsis or septic shock. Poster Presentation. Society of Critical Care Medicine's 43rd Critical Care Congress San Francisco, CA. January 9-13, 2014.

Hendry P, McIntosh M, **Kalynych C**, Osian S, Patel N. Implementing navigation of palliative care in the emergency department. Center to Advance Palliative Care (CAPC) workshop. Dallas, TX. November 7-9, 2013.

Guirgis F, Khadpe J, Kuntz G, Wears R, **Kalynych C**, Kraemer D, Jones A. Long-term, Organ-specific Outcomes in Survivors of Severe Sepsis or Septic Shock: A Systematic Review. iPoster Online Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013.

Guirgis F, Khadpe J, Kuntz G, Wears R, **Kalynych C**, Kraemer D, Jones A. Long-term, Organ-specific Outcomes in Survivors of Severe Sepsis or Septic Shock: A Systematic Review. Poster Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013.

Guirgis F, Gray-Eurom K, Mayfield T, Imbt D, **Kalynych C**, Duke R, Kraemer D, Godwin SA. Rapid Discharge of Patients Presenting to the Emergency Department with Cocaine Chest Pain: Application of an Abbreviated Cardiac Enzyme Protocol in the Clinical Decision Unit.

Poster Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013.

Suen A, Hendry P, **Kalynych C**, Paul J. A Six Year Retrospective Review of Pediatric Firearm Injuries. Poster Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013.

Ashbaugh H, Simon L, **Kalynych C**, Chadwick S, Smotherman C, Kraemer D. Determination of Accuracy in Emergency Department Dosing for Rapid Sequence Intubation. Poster Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013.

Ismail S, McIntosh M, Joseph M, Wylie T, **Kalynych C**, Butterfield R, Smotherman C, Kraemer DF. Impact of Video Discharge Instructions from the Emergency Department in Regard to Caregiver Understanding of their Child's Fever and Closed Head Injury. Poster Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013. **Won Best Resident Poster American College of Emergency Physicians Research Forum**

Guirgis F, Williams DJ, **Kalynych C**, Morrissey T. The Relationship of ETCO₂ to SCVO₂ and Lactate during Early Goal Directed Therapy for the Treatment of Severe Sepsis and Septic Shock. Lightning Oral Presentation. American College of Emergency Physicians Research Forum Seattle, WA. October 14-15, 2013- **Won the National Junior Faculty Researcher Award**

Suen A, Hendry P, **Kalynych CJ**, Paul J. A Six Year Retrospective Review of Pediatric Firearm Injuries. ACEP Research Forum. Seattle, WA. October 14-15, 2013.

Schumacher J, Hendry P, Hall A, Davis T, Arnold C, **Kalynych C**, and Carden DL. 2012. The influence of health literacy on primary care access in the Emergency Department population. *Academy Health's 2012 Annual Research Meeting (ARM). Orlando, FL. June 24-26, 2012.*

Schumacher J, Hendry P, Hall A, Davis T, Arnold C, **Kalynych C**, and Carden DL. 2012. Determinants of Healthcare Access and Use in an Emergency Department Population. *Academy Health's 2012 Annual Research Meeting (ARM). Orlando, FL. June 24-26, 2012.*

Mannings C, **Kalynych C**, Joseph M, Smotherman C, Kraemer D. Knowledge assessment of sport-related concussion among parents of children aged 5-15 years enrolled in recreational tackle football. 2012 SAEM Annual Meeting. Chicago, IL. May 11, 2012.

Joseph MM, Cantville A, **Kalynych C**, Dyer M, Smotherman C, Kraemer DF. Knowledge assessment of caregivers of young soccer players regarding sport related concussion. Poster Presentation. 2013 Pediatric Academic Societies' Annual Meeting Washington, DC. May 4-7, 2013.

Joseph MM, Cantville A, **Kalynych C**, Dyer M, Smotherman C, Kraemer DF. Knowledge assessment of caregivers of young soccer players regarding sport related concussion. Poster Presentation, 2013 Eastern SPR Annual Meeting. Philadelphia, PA. March 22-24, 2013.

Mannings C, **Kalynych C**, Joseph M, Smotherman C, Kraemer D. Knowledge assessment of sport-related concussion among caregivers of children ages 5-15 years enrolled in recreational tackle football. Oral Presentation Injury Free Coalition, Kansas City, MO. November 2012.

Hendry P, **Kalynych C**, Joseph M, Luten R, Godwin S. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. Poster Presentation, American Academy of Pediatrics Annual Meeting. New Orleans, LA. October 19, 2012.

Carstairs SD, Suchard JR, Smith T, Simon LV, **Kalynych C**, Shimada M, Tanen DA. Contribution of serum ethanol concentration to the osmol gap: a prospective volunteer study. Poster Presentation, 2012 Annual Meeting of the American Academy of Clinical Toxicology. Las Vegas, NV. October 1-6, 2012.

Duran-Gehring P, Font R, **Kalynych C**, Kumar V, Landmann R. Integration of asynchronous ultrasound education into a 4 week medical student emergency medicine clerkship: a pilot program. CORD Poster Presentation, Atlanta, GA. April 1- 4, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). 2012. Pediatric Emergency Care Safety Initiative (PECSI): An E-Learning Educational Program for Just-In-Time Training and Continuing Education. 2nd Annual Patient Safety Summit, Emergency Medicine Patient Safety Foundation (EMPSF), San Antonio, TX. March 22-23, 2012.

Hendry P, **Kalynych C**, Westenbarger R, Webb K, and Lissoway J. 2011. A prospective, single-center study to evaluate the use of skin adhesive in the closure of scalp wounds. *2011 American College of Emergency Physicians Research Forum. San Francisco, CA October 15-16, 2011.*

Baker M, Sabato J, Kumar V, **Kalynych C**. Field activated therapeutic hypothermia: does training work and does it matter? Poster Presentation. National Association of EMS Physicians Annual Meeting Tucson, AZ. January 13, 2012.

Hendry, P., Luten, R., **Kalynych, C.**, Joseph, M., Godwin, SA Pediatric Emergency Care Safety Initiative Poster Presentation, Emergency Medicine Patient Safety Foundation Annual Meeting. Las Vegas, NV. May 2011.

Hendry P, and **Kalynych C**. 2011. Teaching Modules for Pediatric ED Patient Safety. 1st Annual Patient Safety Summit, Emergency Medicine Patient Safety Foundation (EMPSF), Las Vegas, NV, May 5-6, 2011.

Kalynych, C., Vukich, D., Caro, D., et al Application of Margin In Life Theory To Remediation And Attrition Rates Among Emergency Medicine Residents Poster presentation, Council of Emergency Medicine Residency Directors. San Diego, CA. March 2011.

McIntosh M, Sheikh-ali M, Lerman R, **Kalynych C**, Vukich C. Improvement of cardiovascular risk factors in women with metabolic syndrome on a Mediterranean-style low-glycemic-load diet and a medical food containing soy protein, phytosterols, hops rho iso-alpha acids, and acacia proanthocyanidins. American Diabetes Association's 70th Scientific Session. Orlando, FL. Poster Presentation, June 25-29, 2010.

McIntosh M, Westenbarger R, **Kalynych C**, Wylie T. Use of just-in-time training to teach EM physicians new stabilization techniques for dental avulsions and fractures. Innovations in Emergency Medicine Education Phoenix, AZ. Poster Presentation, Society of Academic Emergency Medicine June 2010.

Zeretzke C, McIntosh M, Wylie T, **Kalynych C**. Impact of an immunization registry on fever with source in children aged 6-24 months who present to the Pediatric Emergency Department. Poster Phoenix, AZ. Poster Presentation, Society of Academic Emergency June 2010.

Andersen C, Jones J, Barona J, Calle M, Lerman RH, McIntosh M, **Kalynych C**, Vukich C, Volek JS, Fernandez ML. A Mediterranean-style low glycemic diet decreases inflammation and insulin resistance in subjects classified with the metabolic syndrome. Poster, Experimental Biology Conference, Anaheim, CA. April 2010.

McIntosh M, Lerman RH, **Kalynych C**, Vukich C, Fernandez ML, Harris WS. Effects of a Mediterranean-style, low glycemic load diet on RBC omega-3 index and fatty acid profile in women with metabolic syndrome. Poster, Experimental Biology Conference, Anaheim, CA. April 2010.

McIntosh M, **Kalynych C**, Vukich C, Lott M, Lerman RH. Racial differences in fasting lipids: low levels of triglycerides in overweight and obese non-Hispanic black women. Poster, Experimental Biology Conference, Anaheim, CA. April 2010.

McIntosh M, **Kalynych C**, Vukich C, Kumar V, Lott M, Lerman R. Global improvement in multiple cardiovascular disease risk factors with a medical food containing soy, phytosterols, hops rho iso-alpha acids, and acacia proanthocyanidins and a Mediterranean-style low glycemic load diet in women with metabolic syndrome. Poster, Experimental Biology Conference, Anaheim, CA April 2010.

Sabato J, Lim A, Dembitsky Z, Redfield C, **Kalynych C**. Prehospital induced hypothermia SIM training. Poster presented at Phoenix, AZ. National Association of EMS Physicians Conference January 2010.

McIntosh M, Konzelman J, Wylie T, Joseph M, **Kalynych C**. Advancing the Treatment and stabilization of dental trauma by the Emergency Medicine Physician utilizing “Just-In-Time” Training. Society of Academic Emergency Medicine Washington, D.C. May 2008.

Selwitz R, **Kalynych C**, Howell T. Pursuing Excellence in Dental Public Health Grow A Healthy Smile Campaign Poster Presentation, National Oral Health Conference, Miami, FL April 2008.

National Oral Presentations

Kalynych C, Edwards E, West D, Snodgrass C, Zenni E. Tuesdays are Great for Teaching Tips: Spaced Education Strategy for Faculty Development. ACGME Annual Education Conference: Meaning in Medicine: Rebuilding Connections. April 2022.

Kalynych C, Edwards E, West D, Snodgrass C, Zenni E. Tuesdays are Great for Teaching Tips: Spaced Education Strategy for Faculty Development. AAMC GEA National Meeting. April 2021.

Henson M, Norse A, Dodd C, Smotherman C, **Kalynych C**, Hendry P, Sheikh S. Predicting Opioid Overdose Risk in Adults Discharged with a New Prescription Opioid. North American Congress of Clinical Toxicology 2020. Virtual meeting. San Francisco, CA. September 10-14, 2020.

Professor Rounds-Resuscitation: January 19, 2020

Simulation-based team leadership training improves team leadership during actual trauma resuscitations: A randomized controlled trial. Fernandez, R, Roseman, E, Olenick, J, Misco, A, Broliar, S, Chipman, A, Vrabilk, M, **Kalynych, C**, Arbabi, S, Nichol, G, Grand, J, Kozlowski, S, Chao, G. International on Meeting Simulation in Healthcare, San Diego, CA. January 2020

Duran-Gehring P, Barua-Nath U, Wallace C, Bowman J, Aldridge P, Gautam S, **Kalynych C**, Shannon A. Sonographic Measurements of the Inferior Vena Cava and Aorta Diameters in Healthy, Normovolemic Children aged 4 months to 8 years of Age presenting to the Pediatric Emergency Department. 2017 ACEP Research Forum. Washington, DC. October 31, 2017.

Javed A, Guirgis FW, Devos E, Sterling SA, **Kalynych CJ**, Bowman J, Moore FA, Jones AE. Actual versus Ideal Bodyweight for volume resuscitation in Sepsis. Lightning oral presentation at SAEM Annual Meeting. Orlando, FL. May 19, 2017.

Gupta T, Guirgis FW, Javed A, DeVos E, Smotherman C, Sterling SA, Puskarich MA, **Kalynych CJ**, Jones AE. Influence of Sequential Organ Failure Assessment component score in predicting in-hospital mortality from sepsis: Does the type of organ failure matter? Lightning oral presentation at SAEM Annual Meeting. Orlando, FL. May 18, 2017.

*Hendry PL, Hernandez DE, **Kalynych C**. Child Life 101 for Emergency Departments and Emergency Care Providers: Using Nonpharmacologic Methods to Relieve and Manage Pain and Anxiety. PAINWeek. Las Vegas, NV. September 6, 2016.

Sheikh S, Hendry P, **Kalynych C**, Curtis M. Pain Assessment and Management Initiative: A Patient Safety Project - Addressing Gaps in Emergency Medicine Pain Education. Spotlight Oral Presentation Innovations at the SAEM National Meeting. New Orleans, LA. May 12, 2016.

Javed A, Guirgis, F., Sterling, S., Robinson, T., **Kalynych, C.**, Jones, A. Clinical predictors of death from severs sepsis within 24 hours of ED admission: a retrospective analysis. Society of Academic Emergency Medicine, New Orleans, May 9-13, 2016.

Valdes H, Fontane E, Hendry P, **Kalynych C**, Smotherman C, Kraemer D, University of Florida COM-Jacksonville Department of Emergency Medicine. Gunshot Wounds in Young Pediatric Patients: A Descriptive Analysis. Oral Presentation. Society of Academic Emergency Medicine San Diego, CA. May 12-15, 2015.

Sheikh S, Hendry P, **Kalynych C**, Owensby B, Johnson J, Carden D, Kraemer D, University of Florida COM-Jacksonville, Jacksonville, FL, University of Florida COM-Gainesville, Gainesville, FL, University of Florida COM-Center for Health Equity and Quality Research, Jacksonville, FL. Assessing Patient Activation and Health Literacy in the Emergency Department. Oral Presentation. Society of Academic Emergency Medicine, San Diego, CA. May 12-15, 2015.

Duran-Gehring P, McKee K, Goggans S, Huynh T, **Kalynych CJ**, Guirgis FW. Ultrasound confirmation of central venous catheter placement. SAEM Annual Meeting. Dallas, TX. May 13-17, 2014.

Hendry P, Suen A, **Kalynych CJ**, Paul J, Smotherman C. A six year retrospective review of pediatric firearm injuries. Forging New Frontiers, the Annual Injury Free Coalition for Kids Conference. Panel Discussion: Can't We All Get Along- What's New in Analysis and

Prevention of Youth Violence. Ft. Lauderdale, FL. November 8, 2013.

Suen A, Hendry P, **Kalynych CJ**, Paul J. A Six Year Retrospective Review of Pediatric Firearm Injuries. American Academy of Pediatrics (AAP) National Conference and Exhibition. Council on Injury, Violence and Poison Prevention Scientific Session II. Orlando, FL. October 28, 2013.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. American Academy of Pediatrics Section on Emergency Medicine, Committee for the Future Technology Abstracts and Projects. American Academy of Pediatrics National Conference, New Orleans, LA, October 19, 2012.

Guirgis F, Williams DJ, **Kalynych C**, Morrissey T. The Relationship of ETCO₂ to SCVO₂ and Lactate during Early Goal Directed Therapy for the Treatment of Severe Sepsis and Septic Shock. Lightning oral presentation at ACEP Research Forum. Seattle, WA. October 14-15, 2013.

Schumacher J, **Kalynych C**, Hendry P, Hall A, Carden DL. Determinants of healthcare access and use in an ED population. Lightning Oral Presentation. Society for Academic Emergency Medicine Chicago, IL May 11, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). 2012. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. Innovations in Emergency Medicine Education session, 2012 Annual Society for Academic Emergency Medicine Meeting. Chicago, IL. May 10, 2012.

Wylie T, **Kalynych C**, McIntosh M, Godwin S, Kumar V, Naeem S, Chadwick S. Perception of simulation as an educational modality for teaching emergency medicine residents. *CORD*. Atlanta, GA. April 1-4, 2012.

Hendry P, Zima G, Wylie T, **Kalynych C**, Burch J. Emergency medicine (EM) resident and pediatric emergency medicine (PEM) fellow knowledge of language barriers (LB) in the emergency department (ED) setting. *CORD*. Oral Poster Presentation, Atlanta, GA. April 3, 2012.

Kalynych, C., Vukich, D., Caro, D., et al Application of Margin in Life Theory to Remediation and Attrition Rates among Emergency Medicine Residents. Oral Presentation, Society of Academic Emergency Medicine. Boston, MA. June 2011.

Andescavage S, Caro D, **Kalynych C**, Akhlaghi M, Whisenant B. Pupillary Response to Light is Preserved in Patients Undergoing Pharmacologic Neuromuscular Blockade for Rapid Sequence Intubation. Oral Presentation: *Society of Academic Emergency Medicine Andescavage May 2009*.

Regional

Posters

Gupta T, Guirgis FW, Javed A, DeVos E, Smotherman C, Sterling SA, Puskarich MA, **Kalynych CJ**, Jones AE. Influence of Sequential Organ Failure Assessment component score in predicting in-hospital mortality from sepsis: Does the type of organ failure matter? FCEP Symposium by the Sea. Boca Raton, FL, August 3-6, 2017.

McCall J, Zeretzke C, Elie M, Mazzuocolo AL, Wylie T, Hendry P, **Kalynych C**. Use of an Online Immunization Registry in the Pediatric Emergency Department to Confirm Tetanus Vaccinations as up to date with Injuries Requiring Tetanus Vaccination in Children Who Present to the Emergency Department. FCEP Symposium by the Sea. Boca Raton, FL. August 3-6, 2017.

McCall J, Zeretzke C, Elie M, Mazzuocolo AL, Wylie T, Hendry P, **Kalynych C**. Use of an Online Immunization Registry in the Pediatric Emergency Department to Confirm Tetanus Vaccinations as up to date with Injuries Requiring Tetanus Vaccination in Children Who Present to the Emergency Department. Southern Pediatric Research Society Regional Meeting. New Orleans, LA. February 11-13, 2017.

Javed A, Guirgis F, DeVos E, Sterling S, Kalynych C, Bowman J, Moore FA, Jones AE. Actual versus ideal bodyweight for volume resuscitation in sepsis. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 10-11, 2017.

Bryant L, Duran-Gehring P, **Kalynych C**, Guirgis F. Improvement of Vascular Access in Difficult Iv Access Patients Through The Use Of Ultrasound Guided Peripheral IVS By Ed Technicians. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

McGuire M, Joseph M, Karsenti J, Garvan C, Pieper P, **Kalynych C**, University of Florida COM-Jacksonville Department of Emergency Medicine and Department of Radiology, UF College of Nursing-Jacksonville, UF College of Nursing-Gainesville. Optimal Design of Intraosseous Needles Based on the Average Anterior Cortical Depth of the Tibial Bone in Children. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Sutchu S, Guirgis F, Khadpe J, Wears R, **Kalynych C**, Dodani S, Jones A, UF and Shands Jacksonville, SUNY Downstate NY, University of Mississippi Medical Center. Long-Term Organ Dysfunction after Severe Sepsis: A Retrospective Study. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Thomas M, Gray-Eurom K, Hale M, **Kalynych C**, Department of Emergency Medicine, University of Florida COM-Jacksonville Department of Emergency Medicine. The Care 2 Committee: Improving Efficient Use of the Emergency Department through a Review of High Use Patients. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Valdes H, Fontane E, Hendry P, **Kalynych C**, Smotherman C, Kraemer D, University of Florida COM-Jacksonville Department of Emergency Medicine. Gunshot Wounds in Young Pediatric Patients: A Descriptive Analysis. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Bryant L, Duran-Gehring P, Guirgis FW, Kalynych C, Hendry P. Ultrasound guided peripheral intravenous access by Emergency Department technicians is a safe and effective strategy for avoiding unnecessary central venous catheters. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Wilkes T, Simon L, Hale M, **Kalynych C**, Reynolds J, Smotherman C, Kraemer D, University of Florida COM-Jacksonville Department of Emergency Medicine, University of Florida College of

Medicine, Jacksonville Center for Health Equity and Quality Research, Mayo Clinic Jacksonville, Department of Emergency Medicine. Comparison of a Single Use vs Flexible Fiberoptic Bronchoscope in a Simulated Difficult Intubation. Poster Presentation. *Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 5-7, 2015.*

Smith J, Guirgis F, Wylie T, **Kalynych C**, Morrissey T. Resident-initiated noninvasive ventilation in the Emergency Department. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Boca Raton, FL. August 7-10, 2014.

Wilkerson J, Williams DJ, **Kalynych C**, Guirgis F, Morrissey T. Can normal end-tidal co2 measurement rule out serious injury in trauma patients? Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Boca Raton, FL. August 7-10, 2014.

Patel D, Wylie T, Joseph M, Maraqa N, **Kalynych C**. Uropathogen resistance in the Pediatric Emergency Department. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Boca Raton, FL. August 7-10, 2014.

Ismail S, McIntosh M, Joseph M, Wylie T, **Kalynych C**, Butterfield R, Smotherman C, Kraemer DF. Impact of Video Discharge Instructions from the Emergency Department in Regard to Caregiver Understanding of their Child's Fever and Closed Head Injury. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013- **Won the National Resident Research Award: presented by C. Kalynych**

Guirgis F, Williams DJ, **Kalynych C**, Morrissey T. The Relationship of ETCO₂ to SCVO₂ and Lactate during Early Goal Directed Therapy for the Treatment of Severe Sepsis and Septic Shock. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Guirgis F, Khadpe J, Kuntz G, Wears R, **Kalynych C**, Kraemer D, Jones A. Long-term, Organ-specific Outcomes in Survivors of Severe Sepsis or Septic Shock: A Systematic Review. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Guirgis F, Gray-Eurom K, Mayfield T, Imbt D, **Kalynych C**, Duke R, Kraemer D, Godwin SA. Rapid discharge of patients presenting to the Emergency Department with cocaine chest pain: application of an abbreviated cardiac enzyme protocol in the clinical decision unit. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Hendry P, **Kalynych C**, Johnson J, Carden D, Kraemer D. Health literacy and patient activation levels in Emergency Department patients. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Suen A, Hendry P, **Kalynych C**, Paul J. A Six Year Retrospective Review of Pediatric Firearm Injuries. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Joseph M, Cantville A, **Kalynych C**, Dyer M, Smotherman C, Kraemer DF. Knowledge assessment of caregivers of young soccer players regarding sport related concussion. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Ashbaugh H, Simon L, **Kalynych C**, Chadwick S, Kraemer D. Determination of accuracy in Emergency Department dosing for rapid sequence intubation. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Swenton C, Morrissey T, Caro D, **Kalynych C**, Guirgis F. Mentoring 101 for medical students applying to emergency medicine residency programs. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea Clearwater, FL. August 1-4, 2013.

Joseph M, Cantville A, **Kalynych C**, Dyer M, Smotherman C, Kraemer DF. Knowledge assessment of caregivers of young soccer players regarding sport related concussion. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region Jacksonville, FL. March 23-24, 2013.

Guirgis F, Khadpe J, Kuntz G, Wears R, **Kalynych C**, Kraemer D, Jones A. Long-term, organ-specific outcome in survivors of severe sepsis or septic shock: a meta-analysis. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region Jacksonville, FL. March 23-24, 2013.

Swenton C, Morrissey T, Caro D, **Kalynych C**, Guirgis F. Mentoring 101 for medical students applying to emergency medicine residency program. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region Jacksonville, FL. March 23-24, 2013.

Ismail S, McIntosh M, Joseph M, Wylie T, **Kalynych C**, Butterfield R, Smotherman C, Kraemer DF. Impact of video discharge instructions from the Emergency Department in regard to caregiver understanding of their child's fever and closed head injury. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region Jacksonville, FL. March 23-24, 2013.

Wylie T, **Kalynych C**, McIntosh M, Godwin S, Kumar V, Naeem S, Chadwick S. Perception of simulation as an educational modality for teaching emergency medicine residents. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Smith T, Simon L, **Kalynych C**. Contribution of serum ethanol concentration to the osmol gap: a prospective volunteer study. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, and Godwin SA. 2012. Pediatric Emergency Care Safety Initiative: An E-Learning Educational Program for Just-In-Time Training and Continuing Medical Education. Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Hendry P, Zima G, Wylie T, **Kalynych C**, Burch J. Improving emergency medicine (EM) resident and pediatric emergency medicine (PEM) fellow knowledge of language barriers in the emergency department setting. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Schumacher J, Hendry P, Hall A, Davis T, Arnold C, **Kalynych C**, Carden DL. Determinants of healthcare access and use in an emergency department population. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Schumacher J, Hendry P, Hall A, Davis T, Arnold C, Peltzer-Jones J, **Kalynych C**, Carden D. Effect of health literacy on self-reported primary care experiences in an emergency department population. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Martinez-Martinez C, Hendry P, **Kalynych C**. Pediatric emergency medicine fellowship certification exam prep program for scholarly activity. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Duran-Gehring P, Font R, **Kalynych C**, Kumar V, Landmann R. Integration of asynchronous ultrasound education into a 4 week medical student emergency medicine clerkship: a pilot program. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Mannings C, **Kalynych C**, Joseph M, Smotherman C, Kraemer D. Knowledge assessment of sport-related concussion among caregivers of children ages 5-15 years enrolled in recreational tackle football. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea, Amelia Island, FL. August 2-5, 2012.

Hendry P, **Kalynych C**, Webb K, Westenbarger R, Lissoway J, Kumar V. A prospective, single-center study to evaluate the use of Liquiband™ skin adhesive in the closure of scalp wounds. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Ricke T, Hendry P, **Kalynych C**, Buzaianu E, Kumar V, Redfield C. Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Duran-Gehring P, Font R, **Kalynych C**, Kumar V, Landmann R. Integration of asynchronous ultrasound education into a 4 week medical student emergency medicine clerkship: a pilot program. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Hendry P, Zima G, Wylie T, **Kalynych C**, Burch J. Improving emergency medicine (EM) resident and pediatric emergency medicine (PEM) fellow knowledge of language barriers in the emergency department setting. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Martinez-Martinez C, Hendry P, **Kalynych C**. Pediatric emergency medicine fellowship certification exam prep program for scholarly activity. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). 2012. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. *Southeastern SAEM Conference. Jacksonville, FL. February 25-26, 2012.*

Schumacher J, Hendry P, Hall A, Davis T, Arnold C, **Kalynych C**, Carden DL. The influence of health literacy on primary care access in the Emergency Department population. Poster

Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Simon L, **Kalynych C**, McCann M, Demeers G, Kumar V. Ultrasound evaluation of cranial and long bone fractures in a cadaver model. Poster Presentation. Society of Academic Emergency Medicine: Southeastern Region. Jacksonville, FL. February 25-26, 2012.

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). 2011. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Patel S(f), Hendry P, **Kalynych C**, Lott M, Butterfield R, Lukens-Bull K, and Wood D. 2011. The impact of thirdhand smoke education in a pediatric emergency department on caregiver smoking policies and quit status: a pilot study. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Hendry P, **Kalynych C**, Webb K, Westenbarger R, Lissoway J, and Kumar V. 2011. A prospective, single-center study to evaluate the use of LiquiBand™ skin adhesive in the closure of scalp wounds. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011. Fourth place award.

Kalynych C, Vukich D, Kumar V, Lott M, Buzaianu E. Margin-in-Life theory and its impact on burnout remediation and attrition among emergency medicine residents. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Schwartz J, Joseph MM, **Kalynych C**. Factors influencing variations in prescribing inhaled corticosteroids for children with persistent asthma from the emergency department. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Fox A, Stinnett-Bogel S, Booth-Norse A, Schauben J, **Kalynych C**, Butterfield R. Effective use and efficacy of alkalization in overdose. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

McCann M, Simon L, Demeers G, **Kalynych C**, Kumar V. Ultrasound evaluation of cranial and long bone fractures in a cadaver mode. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Baker M, Sabato J, Kumar V, **Kalynych C**. Field activated therapeutic hypothermia: does training work and does it matter? Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Sabato, Abbassi, **Kalynych**, Paul, Wears, Winton, Yap. A Mass Casualty Registry to Study Patient Surge and Mass Casualty Incidents. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011. 5th Place Winner

Hendry P, Luten R, **Kalynych C**, Joseph M, Godwin SA. Pediatric Emergency Care Safety Initiative Booth Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011.

Williams DJ, Morrissey T, Caro D, **Kalynych C**. Sidestream quantitative end-tidal carbon dioxide measurement as a triage tool in emergency medicine. Poster Presentation, Florida College of Emergency Physicians Symposium by the Sea. Naples, FL. August 5-7, 2011. 1st Place Winner

Schwartz J, Joseph MM, **Kalynych C**. Training background: variations in prescribing inhaled corticosteroids for children with persistent asthma from the emergency department. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010. 1st Place

Solomon BJ, Hendry P, **Kalynych C**, Taylor P, Tepas JJ. Do perceptions of effective distractive driving public service announcements (PSAs) differ between adults and teens? Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

Ricke T(f), Hendry P, **Kalynych C**, Kumar V, and Redfield C(&). 2010. Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

McIntosh M, Konzelmann J, Smith J, **Kalynych C**, Wears R, Schneider H, Wylie T, Kaminski A, Matar-Joseph M. Stabilization and treatment of dental avulsions and fractures by emergency physicians using just-in-time training. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010. 3rd Place

Zeretzke CM, McIntosh MS, Wylie T, **Kalynych CJ**, Wood D. Emergency physicians using an online immunization registry perform fewer blood screens for occult bacteremia on children aged 6-24 months who present to ED with fever without a source. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

Akhlaghi M, Swanson T, Brimblecom D, Wears R, **Kalynych C**, Kumar V, Lott M. Accuracy of ECG interpretations by emergency medicine residents and the efficacy of immediate feedback by EM attendings. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

Lissoway J, Caro D, **Kalynych C**, Kumar V. Ultrasound guided intra-articular analgesia in anterior shoulder dislocations. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

Lenhart B, Godwin SA, Sabato J, Wears RL, Gerdik C, **Kalynych C**. Effect of a rapid response team utilizing proactive rounding in reducing hospital mortality. Poster Presentation. Florida College of Emergency Physicians Symposium by the Sea. Boca Raton, FL. July 30, 2010.

Society of Academic Emergency Medicine: Southeastern Region Flumazenil-Good Medicine in Suspected OD? Poster Presentation March 14-15, 2008.

Lectures:

Hendry P, Sheikh S, **Kalynych C**, Davidman R, Hernandez D, Miller T. New approaches to pain: exploring nonpharmacologic, child life & distraction toolbox techniques for pain management in emergency and acute care settings. Jacksonville, FL. April 21, 2017.

Kalynych, CJ. Regional Presentation, SAEM Southeastern Regional Conference Implementing

a Research Program & Utilizing Unique Resources February 2012.

Auerbach J, **Kalynych C**. American Academy of Pediatrics: Regional CATCH Conference Oral Presentation: Obesity Prevention Project/Study San Destin, FL, September 2005.

State

Posters

Patel D, Wylie T, Joseph M, Maraqa N, **Kalynych C**. Uropathogen resistance in the Pediatric Emergency Department. Poster Presentation. Florida Medical Association's 2014 David A. Paulus, M.D. Poster Symposium Orlando, FL. July 26, 2014.

Ricke T(f), Hendry P, **Kalynych C**, Buzaianu E, Kumar V, and Redfield C(&). Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*. Research Honorable Mention Award.

Patel S(f), Hendry P, **Kalynych C**, Lott M, Butterfield R, Lukens-Bull K, and Wood D. 2011. The impact of thirdhand smoke education in a pediatric emergency department on caregiver smoking policies and quit status: a pilot study. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Kalynych C, Vukich D, Kumar V, Lott M, Buzaianu E. Margin-in-Life theory and its impact on burnout remediation and attrition among emergency medicine residents. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Fox A, Stinnett-Bogel S, Booth-Norse A, Schauben J, **Kalynych C**, Butterfield R. Effective use and efficacy of alkalinization in overdose. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Williams DJ, Morrissey T, Caro D, **Kalynych C**. Sidestream quantitative end-tidal carbon dioxide measurement as a triage tool in emergency medicine. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Baker M, Sabato J, Kumar V, **Kalynych C**. Field activated therapeutic hypothermia: does training work and does it matter? Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Sabato J, Paul J, Wears RL, Winton C, Yap CS, Abbassi BS, **Kalynych C**. A mass casualty registry to study patient surge and mass casualty incidents. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

McCann M, Simon L, Demeers G, **Kalynych C**, Kumar V. Ultrasound evaluation of cranial and long bone fractures in a cadaver model. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Williams DJ, Morrissey T, Caro D, **Kalynych C**. Sidestream quantitative end-tidal carbon dioxide measurement as a triage tool in emergency medicine. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011*.

Kalynych C, Vukich D, Caro D, et al. Application of Margin In Life Theory to Remediation and

Attrition Rates Among Emergency Medicine Residents. Poster Presentation. *Florida Medical Association Annual Meeting. Orlando, FL. July 29-31, 2011.*

Oral Presentations/Lectures

Local

Posters

Hendry P, Sheikh S, Hernandez DE, **Kalynych C**, Davidman R, Miller T, Sierakowski J. Child life 101 curriculum for emergency and acute care providers: using non-pharmacologic methods and a distraction "toolbox" to relieve and manage pain and anxiety. University of Florida Medical Education Day. Jacksonville, FL. June 14, 2017.

Gupta T, Guirgis FW, Javed A, DeVos E, Smotherman C, Sterling SA, Puskarich MA, **Kalynych CJ**, Jones AE. Influence of Sequential Organ Failure Assessment component score in predicting in-hospital mortality from sepsis: Does the type of organ failure matter? UF Research Day. Jacksonville, FL. May 17, 2017.

McCall J, Zeretzke C, Elie M, Mazzuocolo AL, Wylie T, Hendry P, **Kalynych C**. Use of an Online Immunization Registry in the Pediatric Emergency Department to Confirm Tetanus Vaccinations as up to date with Injuries Requiring Tetanus Vaccination in Children Who Present to the Emergency Department. UF Celebration of Research. Gainesville, FL. February 27, 2017.

Patel R, Sheikh S, Hendry P, **Kalynych C**, Curtis M, Roycroft C, Sierakowski J, Schneegans S, Moorman-Li R, Cammilleri J, Warden C. An emergency department discharge planning toolkit to improve pain management and education – a pilot study. *University of Florida Medical Education Day. Jacksonville, FL. June 8, 2016.*

Sheikh S, Hendry P, **Kalynych C**, Curtis M, Sierakowski J, Barua-Nath U, Schmidt A, Hilton A, Eaves D, Aaronson P, Moorman-Li R, Cammilleri J, Warden C. The pain assessment and management initiative (PAMI): a patient safety project. *University of Florida Medical Education Day. Jacksonville, FL. June 8, 2016.*

Guirgis F, Jones L, McLauchlin L, Cannon C, Ferreira J, **Kalynych C**, Weiss A, Esma R, Kraemer D, Smotherman C, Webb K, Gray-Eurom K. Sepsis alert protocol reduces inpatient mortality for patients presenting to the Emergency Department with sepsis. *UF Research Day. Jacksonville, FL. May 19, 2016. Won 1st place, poster presentation.*

Metzker L, Guirgis F, Sabato J, Gray-Eurom K, Reynolds J, **Kalynych C**. *Heart score in low to intermediate risk chest pain admitted to the clinical decision unit. UF Research Day. Jacksonville, FL. May 19, 2016.*

Guirgis F, Dodani S, Reynolds J, **Kalynych C**, Moldawer L, Leeuwenburgh C, Reddy ST, Moore FA. Dysfunctional high density lipoprotein measured via cell free assay is predictive of adverse outcome in patients with severe sepsis. *UF Research Day. Jacksonville, FL. May 19, 2016.*

Abdur-Rhaman M, Joseph M, **Kalynych C**, Kraemer D, Smotherman C, Lott M. Evaluating the effectiveness of an Emergency Department based referral to a community asthma prevention program on reducing Emergency Department utilization for asthma. *UF Research Day.*

Jacksonville, FL. May 19, 2016.

Hendry P, **Kalynych C**, Sheikh S, Jacobson L, Curtis M, Shomo E, Barua-Nath U, Matthew M, Hilton A. The Pain Assessment and Management Initiative (PAMI): A Patient Safety Project. *University of Florida Medical Education Day. Jacksonville, FL. April 9, 2015.*

Hendry P, **Kalynych C**, McIntosh M, Miller T, Lockett C. Development and Dissemination of the Emergency-Go-Bag and Emergency Preparedness Educational Materials for Patients and Providers. *University of Florida Medical Education Day. Jacksonville, FL. April 9, 2015.*

Duran-Gehring P, McKee K, Goggans S, Huynh T, **Kalynych CJ**, Guirgis FW. Ultrasound confirmation of central venous catheter placement. Duval County Medical Society Annual Meeting. Jacksonville, FL. December 3, 2014.

Guirgis FW, Gerdik C, Wears RL, Williams DJ, **Kalynych CJ**, Sabato J, Godwin SA. Inpatient Sepsis Recognition and Treatment by the Rapid Response Team. Duval County Medical Society Annual Meeting. Jacksonville, FL. December 3, 2014.

Duran-Gehring P, Guirgis FW, Bryant L, **Kalynych C**, Hendry P. Ultrasound Guided Peripheral Intravenous Access by Emergency Department Technicians is a Safe and Effective Strategy for Avoiding Unnecessary Central Venous Catheters. *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 3, 2014.*

Kalynych C, Osian S, McIntosh M, Hendry P. ED palliative care tool development through patient and provider interviews. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Hendry P, McIntosh M, **Kalynych C**, Osian S, Patel N. Development of an ED Palliative Care Screening Tool. *University of Florida Research Day. Jacksonville FL. May 15, 2014.*

Sheikh S, Hendry P, Lynch S, **Kalynych C**, Aldridge P, Kraemer D. Characterizing demographic and health data of self-poisoning with suicide intent in patients between the ages of 0-21 years reported to Florida poison centers from 2003-2013. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Wilkerson J, Williams DJ, **Kalynych C**, Guirgis F, Morrissey T. Can normal end-tidal CO₂ measurement rule out serious injury in trauma patients? Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Patel D, Wylie T, Joseph M, Maraqa N, **Kalynych C**. Uropathogen resistance in the Pediatric Emergency Department. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Smith J, Guirgis F, Wylie T, **Kalynych C**, Morrissey T. Resident-initiated noninvasive ventilation in the Emergency Department. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Guirgis F, Hardy M, Gerdik C, **Kalynych C**, Wears R, Godwin S, Thomas M, Horn K. Inpatient sepsis recognition and treatment by the rapid response team. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Guirgis F, Williams DJ, **Kalynych C**, Jones AE, Wears R. The relationship of ETCO₂ to SCV₀₂ and lactate during early quantitative resuscitation for the treatment of severe sepsis and septic shock. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Guirgis F, Williams DJ, **Kalynych C**, Jones AE, Wears R. A comparison of arterial and venous CO₂ to end-tidal CO₂ in patients undergoing early quantitative resuscitation for severe sepsis or septic shock in the emergency department. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Guirgis F, Williams DJ, **Kalynych C**, Wears R. Relationship of fluid type, volume, and chloride-content in the first 24 hours to serum creatinine in patients with severe sepsis or septic shock. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Duran-Gehring P, McKee K, Goggans S, Huynh T, **Kalynych CJ**, Guirgis FW. Ultrasound confirmation of central venous catheter placement. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 15, 2014.*

Duran-Gehring P, Bryant L, **Kalynych C**, Hendry P. Improvement of Vascular Access in Difficult IV Access Patients through the Use of Ultrasound Guided Peripheral IVs by ED Technicians. Poster Presentation. *University of Florida Medical Education Week Jacksonville, FL. April 10, 2014.*

Miller K, Jacobson L, **Kalynych C**, Guirgis F. Simulation-based resident education for severe sepsis and septic shock. Poster Presentation. *University of Florida Medical Education Week Jacksonville, FL. April 10, 2014.*

Ismail S, McIntosh, M, **Kalynych C**, Joseph M, Wylie T, Butterfield R, Smotherman C, Kraemer DF, Osian SR. Impact of video discharge instructions from the emergency department in regard to caregiver understanding of their child's fever and closed head injury. Poster Presentation. Duval County Medical Society Annual Meeting Jacksonville, FL. December 4, 2013.

Johnson J, Hendry P, **Kalynych C**, Carden D, Kraemer D. Health literacy and patient activation levels in emergency department patients. Poster Presentation. *Duval County Medical Society Annual Meeting Jacksonville, FL. December 4, 2013.*

Hendry P, Suen A, **Kalynych C**, Paul J, Smotherman C. A six year retrospective review of pediatric firearm injuries. Poster Presentation. *Duval County Medical Society Annual Meeting Jacksonville, FL. December 4, 2013.*

Hendry P, McIntosh M, **Kalynych C**, Osian S, Patel N. Development of an ED Palliative Care Screening Tool. Poster Presentation. *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 4, 2013.*

Guirgis F, Gray-Eurom K, Mayfield T, Imbt D, **Kalynych C**, Duke R, Kraemer D, Godwin SA. Rapid discharge of patients presenting to the Emergency Department with cocaine chest pain: application of an abbreviated cardiac enzyme protocol in the clinical decision unit. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Guirgis F, Khadpe J, Kuntz G, Wears R, **Kalynych C**, Kraemer D, Jones A. Long-term, organ-specific outcomes in survivors of severe sepsis or septic shock: a meta-analysis. Poster

Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Hendry P, **Kalynych C**, Johnson J, Carden D, Kraemer D. Health literacy and patient activation levels in Emergency Department patients. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Suen A, Hendry P, **Kalynych C**, Paul J. A six year retrospective review of pediatric firearm injuries. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Joseph M, Cantville A, **Kalynych C**, Dyer M, Smotherman C, Kraemer DF. Knowledge assessment of caregivers of young soccer players regarding sport related concussion. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Ismail S, McIntosh M, Joseph M, Wylie T, **Kalynych C**, Butterfield R, Smotherman C, Kraemer DF. Impact of video discharge instructions from the Emergency Department in regard to caregiver understanding of their child's fever and closed head injury. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Ashbaugh H, Simon L, **Kalynych C**, Chadwick S, Kraemer D. Determination of accuracy in Emergency Department dosing for rapid sequence intubation. Poster Presentation. *University of Florida Research Day Jacksonville, FL. May 16, 2013.*

Swenton C, Morrissey T, Caro D, **Kalynych C**, Guirgis F. Mentoring 101 for medical students applying to emergency medicine residency programs. Poster Presentation. *University of Florida Medical Education Week Jacksonville, FL. April 11, 2013.*

Hendry P, **Kalynych C**, Johnson J, Schumacher J, Hall A, Davis T, Arnold C, Carden DL. Effect of Health Literacy on Self-Reported Primary Care Experiences in an Emergency Department Population. Poster Presentation, *Duval County Medical Society. Jacksonville, FL. November 29, 2012.*

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA. Pediatric Emergency Care Safety Initiative: An E-Learning Educational Program for Just-In-Time Training and Continuing Medical Education. Poster Presentation, *Duval County Medical Society. Jacksonville, FL. November 29, 2012.*

Mannings C, **Kalynych C**, Joseph M, Smotherman C, Kraemer D. Knowledge assessment of sport-related concussion among caregivers of children 5-15 years enrolled in recreational tackle football. Poster Presentation, *Duval County Medical Society. Jacksonville, FL. November 29, 2012.*

Smith T, Simon L, **Kalynych C**. Contribution of serum ethanol concentration to the osmol gap: a prospective volunteer study. Poster Presentation, *Duval County Medical Society. Jacksonville, FL. November 29, 2012.*

Mannings C, **Kalynych C**, Joseph M, Smotherman C, Kraemer D. Knowledge assessment of sport-related concussion among parents of children aged 5-15 years enrolled in recreational tackle football. Poster Presentation. *University of Florida Research Day, Jacksonville, FL. May 17, 2012.*

Hendry P, **Kalynych C**, Johnson J, et al The influence of health literacy on primary care access in the emergency department population. Poster Presentation. *University of Florida Research Day, Jacksonville, FL. May 17, 2012.*

Hendry P, **Kalynych C**, Webb K, Westenbarger R, Lissoway J, Kumar V. A prospective, single-center study to evaluate the use of LiquiBand™ skin adhesive in the closure of scalp wounds. Poster Presentation. *University of Florida Research Day, Jacksonville, FL. May 17, 2012.*

Wylie T, **Kalynych C**, et al. Perception of simulation as an educational modality for teaching emergency medicine residents. Poster Presentation. *University of Florida Research Day, Jacksonville, FL. May 17, 2012.*

Zima G, Hendry P, Wylie T, **Kalynych C**, Burch J. Improving emergency medicine (EM) resident and pediatric emergency medicine (PEM) fellow knowledge of language barriers in the emergency department setting. Poster Presentation. *University of Florida Medical Education Day. Jacksonville, FL. April 12, 2012.*

Martinez-Martinez C, Hendry P, **Kalynych C**. Pediatric emergency medicine fellowship certification exam prep program for scholarly activity. Poster Presentation. *University of Florida Medical Education Day. Jacksonville, FL. April 12, 2012.*

Hendry P, **Kalynych C**, Luten R, Joseph M, Godwin SA, Journey J(r), and Fawsett C(r). 2012. Pediatric emergency care safety initiative (PECSI): an e-learning educational program for just-in-time training and continuing education. *University of Florida Medical Education Day. Jacksonville, FL. April 12, 2012.* Tie for First Place Resident Award

Duran-Gehring P, Font R, **Kalynych C**, Kumar V, Landmann R. Integration of asynchronous ultrasound education into a 4 week medical student emergency medicine clerkship: a pilot program. Poster Presentation. *University of Florida Medical Education Day. Jacksonville, FL. April 12, 2012.*

Kraemer D, Wood DL, Butterfield R, Dodani S, **Kalynych C**, et al. Description and evaluation of “research study design and execution” course. Poster Presentation. *University of Florida Medical Education Day. Jacksonville, FL. April 12, 2012.*

Sabato J, Paul J, Wears RL, Winton C, Chua YS, Seyed-Abbassi B, **Kalynych C**. A mass casualty registry to study patient surge and mass casualty incidents. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Booth-Norse A, Fox A, Boggle S, Schauben JL, **Kalynych C**, Butterfield R. Effective use and efficacy of alkalization in overdose. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

McCann M, Simon L, Demeers G, **Kalynych C**, Kumar V. Ultrasound evaluation of cranial and long bone fractures in a cadaver model. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Patel S, Hendry P, **Kalynych C**, Lott M, Butterfield R, Lukens-Bull K, Wood D. The impact of third-hand smoke education in a pediatric emergency department on caregiver smoking policies and quit status: a pilot study. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Hendry, P, **Kalynych, C**, Webb, K., Westenbarger, R., Lissoway, J. A Prospective Single Center Study to Evaluate the Use of LiquiBand in Scalp Closures. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Williams DJ, Morrissey T, Caro D, **Kalynych C**. Quantitative Capnometry: The Next Vital Sign? Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Kalynych C, Vukich D, Caro D, et al. Application of Margin In Life Theory to Remediation And Attrition Rates Among Emergency Medicine Residents. Poster Presentation. *Duval County Medical Society Jacksonville, FL. December 1, 2011.*

Patel, S., Hendry, P., **Kalynych, C.**, et al Third-hand Smoke Education and its Impact on Parents who Smoke and Present to the Pediatric Emergency Department with their Children. Poster Presentation, *University of Florida Research Day, Jacksonville, May 2011.* 5th Place Winner

Sabato J, Baker M, Kumar V, **Kalynych C**. Field activated therapeutic hypothermia: does training work and does it matter? Poster Presentation, *University of Florida Research Day, Jacksonville. May 2011.*

Sabato J, Baker M, Kumar V, **Kalynych C**. Field activated therapeutic hypothermia: does training work and does it matter? Poster Presentation. *University of Florida Medical Education Week. Jacksonville, FL. April 14, 2011.*

McBride E, Hendry P, **Kalynych C**, Gallanter T, Guirgis F Introduction of tactical emergency medical services and education of tactical officers on medical topics commonly encountered in the line of duty. Poster Presentation. *University of Florida Medical Education Week. Jacksonville, FL. April 14, 2011.*

Joseph M, Schwartz J, **Kalynych C**. Training background and variations in prescribing inhaled corticosteroids for children with persistent asthma from the emergency department. Poster Presentation, *Duval County Medical Society Jacksonville, FL. December 1, 2010.*

Solomon BJ, Hendry P, **Kalynych C**, Taylor P, Tepas JJ. Do perceptions of effective distractive driving public service announcements (PSAs) differ between adults and teens? Poster Presentation *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 1, 2010.*

Ricke T, Hendry P, **Kalynych C**, Buzalanu E, Kumar V, Redfield C. Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. Poster Presentation *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 1, 2010.*

Simon LV, **Kalynych C**, Godwin SA, Sabato J, Vukich D. Training assessment for physicians prior to deployment. Poster Presentation, *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 1, 2010.*

Lissoway J, Caro D, **Kalynych C**, Kumar V. Ultrasound guided intra-articular analgesia in anterior shoulder dislocations. Poster Presentation *Duval County Medical Society Annual Meeting. Jacksonville, FL. December 1, 2010.*

Zeretzke CM, McIntosh MS, Wylie T, **Kalynych CJ**, Wood D. An online immunization registry perform fewer blood screens for occult bacteremia on children aged 6-24 months who present to

ED with fever without a source. Poster Presentation *Duval County Medical Society Annual Meeting, Jacksonville, FL, December 1, 2010.*

Akhlaghi M, Swanson T, Brimblecom D, Wears R, **Kalynych C**, Kumar V, Lott M. Accuracy of ECG interpretations by emergency medicine residents and the efficacy of immediate feedback by EM attendings. Poster Presentation *Duval County Medical Society Annual Meeting, Jacksonville, FL, December 1, 2010.*

Ingram J(r), Sabato J, **Kalynych C**, and Hendry P. 2010. Utilization of Simulation for Mass Casualty Training of Emergency Medicine Residents. *University of Florida Medical Education Week, Jacksonville, FL, April 22, 2010.*

McIntosh M, Fihe E, **Kalynych C**, Akhlaghi M, Wylie T. Addressing ACGME core competencies: An international medicine template. Poster Presentation, *University of Florida Medical Education Week, Jacksonville, FL, April 24, 2008.*

Caro D, Godwin SA, Acrement A, Kleiner D , **Kalynych C**. Remediation trends associated with learning styles in an emergency medicine residency. Poster Presentation, *University of Florida Medical Education Week, Jacksonville, FL, April 24, 2008.*

McIntosh, M., **Kalynych, C**. Prevalence of Traumatic and Atraumatic Dental Emergencies in the Pediatric Emergency Department. Poster Presentation, *University of Florida Research Day, Jacksonville, FL, May 12, 2006 .*

Poras G, **Kalynych C**. Breastfeeding Barriers Among African American Women University of Florida Department of Pediatrics/Jacksonville. Poster Presentations *University of Florida Research Day, Jacksonville, May 12, 2006.*

Auerbach, J., **Kalynych, C**. Prevalence of Overweight in a Visually Impaired School Based Population-Poster Presentation, *University of Florida Research Day, Jacksonville FL, April 2004.*

Local Oral/Lectures

Kalynych, C., Chesire, D. Building Your Team Back After COVID. University of Florida College of Medicine Jacksonville, Jacksonville, FL. Faculty Development Series. August 30, 2022.

Kalynych, C., Castleberry, J. How 5x5 Can Improve Your Team. University of Florida, Gainesville, FL. Department of Dermatology Retreat. May 6, 2022.

Kalynych, C. Tips for Effective Didactic Presentations Using a Little Education Magic. University of Florida College of Medicine, Gainesville, FL. Department of Physical Medicine and Rehabilitation. February 2022.

Kalynych, C. Giving Effective Didactic Presentations: Tips When Using Power Point as Your Medium and Some Other Educational Magic. University of Florida College of Medicine Jacksonville, Jacksonville, FL Residents as Teachers Seminar. October 2020.

Kalynych, C. Leadership and Public Health. Invited Lecture, University of North Florida Brooks

College of Health, Department of Public Health. August 2020.

Kalynych, C. Educational Strategies to Assist with Memory Retention and Minimize Mind Wandering: Tips When Using PowerPoint as Your Medium and Some Other Educational Magic. Grand Rounds, University of Florida College of Medicine Jacksonville, FL, Department of Obstetrics and Gynecology. January 15, 2020

Kalynych, C., Zenni, E. Faculty Development. Effective Feedback Reinforces Professionalism – Role of the Preceptor. University of Florida College of Medicine Jacksonville, FL Department of Pediatrics, April 16, 2019

Kalynych, C. Faculty Development. Aims Goals and Objectives: Is your program aligned? University of Florida College of Medicine Jacksonville, FL. All Faculty, February 20, 2019

Kalynych, C. Grand Rounds, St. Vincent's Family Practice Residency Program Emotional Intelligence. Jacksonville, FL. April 26, 2012

Kalynych, C. Regional Presentation, SAEM Southeastern Regional Conference Implementing a Research Program & Utilizing Unique Resources February 2012

Kalynych, C. Grand Rounds, Our Lady of the Lake Pediatric Residency Program Implementing a Research Program & Utilizing Unique Resources, January 2012

Kalynych, C. Doctoral Research. Seminar Emergency Medicine Attrition and the Application of Margin University of North Florida, College of Education Thomas Mulkeen Award Finalist May 2011

Kalynych, C. Faculty Development Series Presentation, University of Florida College of Medicine, Jacksonville, Graduate Medical Education. The Relationship Between Emotional Intelligence, Learner Insight, and Effective Feedback, October 2010

Kalynych, C. Faculty Development Series, University of Florida College of Medicine, Jacksonville, Graduate Medical Education Introduction to Transformational Leadership, April 9, 2008

Oral Platform Presentations

Wallace, C. Duran-Gehring, P., Shannon, A., Barua-Nath, V; **Kalynych, C.**, Guirgis, F., Smotherman, C., Aldridge, P., Gautum, S. Sonographic measurement of the inferior vena cava and aorta diameters in children 4 months to 8 years of age presenting to the emergency department and the utility of these measurements in assessing dehydration. **Won 4th place for oral presentation.**

McGuire M, Joseph M, Karsenti J, Garvan C, Pieper P, **Kalynych C**, University of Florida COM-Jacksonville Department of Emergency Medicine and Department of Radiology, UF College of Nursing-Jacksonville, UF College of Nursing-Gainesville. Optimal Design of Intraosseous Needles Based on the Average Anterior Cortical Depth of the Tibial Bone in Children. **Won 1st Place for oral presentation.** Selected from over 120 posters for one of 6 oral platform presentations.

Hendry P, **Kalynych C**, Johnson J (r), Carden D, Kraemer D. Health literacy and patient activation levels in Emergency Department patients. University of Florida Research Day. Jacksonville, FL. May 16, 2013. Refereed proceeding: Oral and Poster, university presentation, selected from abstract submission. **4th place for oral presentation**. Selected from over 120 posters for one of 6 oral platform presentations.

Mannings C, **Kalynych C**, Joseph M. Knowledge assessment of sport-related concussion among parents of children aged 5-15 years enrolled in recreational tackle football. Oral Presentation. **Won 4th Place** for oral presentation

Williams DJ, Morrissey T, Caro D, **Kalynych C**. Quantitative Capnometry: The Next Vital Sign? Oral Presentation, UF Research Day May 2011, **2nd Place Winner**, Platform Presentation

Patel S (f), Hendry P, **Kalynych C**, Lott M, Butterfield R, Lukens-Bull K, Wood D. The impact of third hand smoke education in a pediatric emergency department on caregiver smoking policies and quit status: a pilot study. University of Florida Research Day. Jacksonville, FL. May 12, 2011. Refereed proceeding: oral and poster, university presentation, selected from abstract submission. **4th place winner**. Selected from over 100 posters for one of 6 oral platform presentations.

Ricke T(f), Hendry P, **Kalynych C**, Buzaianu E, Kumar V, Lott M, and Redfield C(&). 2010. Incidence and recognition of elevated triage blood pressure in the pediatric emergency department. University of Florida Research Day, Jacksonville, FL May 20, 2010. Refereed proceeding: Oral and poster, university presentation, selected from abstract submission **3rd place winner** Selected from 150 posters for one of 6 oral platform presentations.

Poras, G., **Kalynych, C**. Breastfeeding Barriers Among African American Women University of Florida Department of Pediatrics/Jacksonville. Oral Presentations, **4th Place Winner** *University of Florida Research Day, Jacksonville. May 12, 2006*

Other

Academic Emergency Medicine Consensus Conference: Public Health in the Emergency Department- Surveillance, Screening, and Intervention. Proceedings: Society of Academic Emergency Medicine May 2009

Pediatric Academic Society Meeting Workshop Presentation Utilization of Instructional Alignment for Resident Community-based Projects San Francisco, CA May 2, 2006

Association of Pediatric Program Directors Workshop Presentation Using Community-Oriented Primary Care to Develop Resident Competence in System-Based Practice Washington, DC, May 2005

American Academy of Pediatrics- Community Pediatrics Training Initiative A Childhood Obesity Screening and Educational Program Oral Presentation, March 2005

American Federation of Medical Research-Southern Regional Meeting Percentage of BMIs Being Recorded by Pediatricians in Two Inner-City Clinic and a Physician Training Program-Poster New Orleans, LA, February 2005

American Academy of Pediatrics Prevalence of Overweight in a Visually Impaired School Based

Population-Poster, San Francisco, CA, October 2004

National Medical Home Conference Prevalence of Overweight in a Visually Impaired School Based Population-Poster, Chicago, IL, July 2004

Anne E. Dyson Day-Obesity Forum Poster- Anne E. Dyson Community Pediatrics- Community Action Initiatives, May 2004

National Anne E. Dyson Initiative Poster Session: A Free and Voluntary Childhood Obesity Screening and Educational Program, International Community Health Rotation: The Haiti Experience, and Strategies for Improving Resident Participation in the Dyson Initiative. September 2003

Tobacco Cessation Counseling Skills for Pediatric and Family Practice Residents 2001-2003
Cultural Competency/Sensitivity Trainer University of Florida AHEC Program Office and UF Department of Psychology 2001-2003

National Health Education and Training Center (HETC) Conference, Team Fun Summer Around the World Curriculum, San Diego, CA. September 2000

Osteoporosis Prevention Programs: Bone Zone (Elementary School Children) and Bone Builders (Adult) 2001-2003

Culturally Competent Teaching for Childbirth Educators, (section) Florida Outreach Childbirth Education Program/Training, February 2001

ADDITIONAL TRAINING AND EDUCATION

Excellent Computer Skills: Microsoft Word, Excel, Access Database, Publisher, Word, REDCap, University of Florida- People Soft System, UFirst

Grants.Gov Applications

Grant Writing Skills: Developed, implemented, and evaluated several grant awards (see list) through local, state, and national funding sources. Experienced in foundation, state, and federal grant applications.

Evaluation & Research: Provided guidance to numerous pediatric and emergency medicine faculty, fellow, and residents in regard to research endeavors. This included designing research methodology, statistical analyses, funding, IRB approval and manuscript writing. Experienced in IRB requirements and Western IRB levels, clinical trials, budgets and local, state, and national research efforts. The development of Pre/Post Tests, surveys (online and written) for numerous projects and research. Provided direction and oversight on evaluation plans, research projects and health promotion programs within the university, community agencies, healthcare students, medical residents, and faculty. Developed several teaching curricula for community-based educational programs.

Mentoring: Provided career development guidance to numerous undergraduate, graduate and post-doc students, residents and fellows.

Degree | Change_Credits for request 20679

Info

Request: Modify Credit Requirements for MID

Description of request: The College of Design, Construction and Planning seeks to modify the curriculum for the Master of Interior Design (M.I.D.) degree

Submitter: Sheila Bosch sheilabosch@dcp.ufl.edu

Created: 12/10/2024 2:23:59 PM

Form version: 3

Responses

Degree Name

Enter the name of the degree program.

Master of Interior Design

CIP Code

Enter the six digit Classification of Instructional Programs (CIP) code for the degree program. The code has the numerical format XX.XXXX. Contact the Office of Institutional Planning and Research (OIPR) to verify the CIP code for the existing degree program.

50.0408

Current Total Credits

Enter the current number of credits needed to complete the majors in the degree program.

36

Proposed Total Credits

Enter the proposed number of credits needed to complete the majors in the degree program.

33

Do the total credit hours increase or decrease by 25% or more AND students' expected time to completion increases or decreases by more than one term

No

Effective Term

Enter the term (semester and year) that the requested change in total credits would be effective.

Earliest Available

Effective Year

Earliest Available

Pedagogical Rationale/Justification

Describe the rationale for the proposed change to the total credits. In accordance with the requirements of Section 1007.25, F.S., the Board of Governors may approve a request by a university board of trustees for a bachelor's degree program to exceed 120 credit hours to degree for the following reasons:

- *Additional courses are required to meet specialized accreditation standards for program content and such accreditation is expected or required for program graduates to become employed in the profession for which they are being prepared (e.g. Engineering, Architecture).*
- *Additional courses are required to meet state or federal mandated criteria for professional licensing (e.g., Teacher Education).*
- *The degree program offers a unique and innovative learning experience, such as honors programs, individualized study, and other non-traditional approaches to education.*

We are proposing to reduce the number of required credits for our Master of Interior Design (MID) degree program from 36 to 33 by removing one elective requirement. The purpose is to have parity between our on campus MID and our proposed online MID offering. A lower number of required credit hours is likely to appeal to prospective online students, who will mostly be working professionals, as well as applicants to our on-campus modality. We are making every effort to ensure that our MID program appeals to prospective students to increase enrollment. Reducing the required number of elective credits will not adversely affect our students' core knowledge or their ability to succeed as professionals. Our MID program is not subject to accreditation requirements. We do not anticipate any adverse impacts from reducing the required number of credit hours from 36 to 33.

Impact on Initial Enrollment/Retention/Graduation

Describe the projected impact of the change in total credits on enrollment and on retention and graduation of students in the majors.

We anticipate that reducing the required number of credits will ENHANCE initial enrollment, retention and graduation, as most of our MID students are self-funded and this proposal will result in tuition cost reductions. Reducing the number of total credits will also potentially shorten time to graduation and will help us be more competitive with other similar degree programs at other universities.

Assessment Data Review

Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.

The proposed change does not affect any of our Student Learning Outcomes or program goals.

Academic Learning Compact and Academic Assessment Plan

Describe the modifications to the Academic Learning Compact and Academic Assessment Plan that result from the proposed change.

N/A

Current Requirements – 36 credits

MID Required Courses: 24 credits
IND 5937 Grad Colloquium (Special Topics) (3 credits)
IND 5633 Readings in Design Studies (3 credits)
IND 6639 Methods of Interior Design Research (3 credits)
IND 5641 Environment and Behavior (3 credits)
IND 6940 Supervised Teaching (3 credits)
IND 6906 Independent Studies and Readings (3 credits)
IND 6971 Research for Master's Thesis (6 credits)

Additional Courses: 12 credits
IND Elective Courses: up to 9 CR
IND 6906 Independent Studies and Readings (3 credits) (max credits 6)
IND 6941 Interior Design Internship (3 credits) (S/U)
Suggested Elective Courses
IND 5937 Current Topics in Interior Design (1-3 credits)
IND 5937 (Rotating Topic) (1-3 credits)
DCP 6931 Data Science for Interior Design (Special Topics) (1-4 credits)
Statistics: MMC 6455 Mass Communication Statistics (3 credits)
Statistics: STA 6126 Statistical Methods in Social Research I (3 credits)

Proposed Requirements – 33 credits

MID Required Courses: 24 credits
IND 5937 Current Topics in Interior Design (3 credits)
IND 5633 Readings in Design Studies (3 credits)
IND 6639 Methods of Interior Design Research (3 credits)
IND 5641 Environment and Behavior (3 credits)
IND 6940 Supervised Teaching (3 credits)
IND 6906 Independent Studies and Readings (3 credits)
IND 6971 Research for Master's Thesis OR IND 6979 Master's Research Project (6 credits)

Additional Courses: 9 credits
IND Elective Courses: up to 9 CR
IND 6906 Independent Studies and Readings (3 credits) (max credits 6)
IND 6941 Internship (3 credits) (S/U)
Suggested Elective Courses
IND 5937 Other Special topics
Statistics: MMC 6455 (3 credits)

All courses are Letter Graded unless noted otherwise.

Graduate Curriculum Committee

Minutes

November 14, 2024

Meeting Materials

Voting Conducted
via Zoom

I. Presentation and review of the Minutes from the October Meeting of the Graduate Curriculum Committee (GCC).

II. Update(s) to the Committee: The following was reviewed by the Graduate Curriculum Committee (GCC) previously. The GCC felt further follow-up and/or clarifications were necessary before the proposals could move forward to the University Curriculum Committee (UCC). Suggestions and/or follow-up required are noted below the proposals.

COP – Medicinal Chemistry

1. PHA 6XXX *Applied Statistics for Data Analysis in Pharmaceutical and Forensic Science*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19609>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

III. Course Change Proposals: The following proposals are newly requested revisions to existing courses already within the current course catalog in curriculum inventory. The changes requested are listed below each of the proposals.

MED – Physiology and Aging

1. GMS 6471 Fundamentals of Physiology and Functional Genomics I

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/18926>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

MED – General Medicine

2. GMS 7877 *Responsible Conduct of Research*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20664>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

IV. New 5XXX Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

CLAS – Geological Sciences

1. GLY 5XXXC *Analytical Methods in Earth and Environmental Sciences*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20471>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

v. New Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

HHP – Applied Physiology and Kinesiology

1. APK 6XXX *Cell Physiology & Biophysics*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19860>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

COE – School of Human Development and Organizational Studies in Education

2. EDA 6XXX *Applied Education Policy Research*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20342>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

3. EDH 6XXX *Higher Education Environments*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19986>

The proposal has been approved by the GCC.

4. EDH 7XXX *Advanced Scholarly Writing for Publication*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20056>

The proposal has been approved by the GCC.

HHP – Tourism, Hospitality, & Event Management

5. HFT 6XXX *Advanced Strategic Event Management*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20377>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

PHHP – Public Health

6. HSA 6XXX *Long-Term Care Management*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20626>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

7. HSA 6XXX *Management of Artificial Intelligence in Healthcare*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20623>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

8. HSA 6XXX *Revenue Cycle Management in Healthcare Organizations*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20624>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

9. HSA 6XXX *Value-Based Care*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20625>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

PHHP – Environmental and Global Health

10. PHC 6XXX *Applying a One Health Framework to Public Health Issues*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20550>

The proposal has been conditionally approved. Once revised, the GCC wishes to review the proposal again.

PHHP – Public Health

11. PHC 6XXXL *Public Health Methods Statistical Programming Lab*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20622>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

CLAS – Political Science

12. POS 6XXX *Professional Development in Political Science*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19933>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

COE – School of Teaching and Learning

13. TSL 6XXX *Technology for Language and Reading Education*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20294>

The proposal has been conditionally approved. Once revised, the proposal can be administratively approved after further review by the Chair of the GCC.

vi. Information Items:

1. 20670 – [Transfer of courses from General Engineering to Engineering Education](#)
2. [AEB 6933](#) – 19699 – Change maximum repeatable credit
3. [CRW 6331](#) – 19917 – Change maximum repeatable credit
4. [ECO 7115](#) – 18737 – Change to course title and co-requisites
5. [GMS 6851](#) – 20579 – Change to course title
6. [GMS 7906](#) – 20223 – Change prerequisites
7. [HSA 6177](#) – 20642 – Change to course title, description, and objectives
8. [LNW 6905](#) – 20058 – Change to course title and maximum repeatable credit
9. [MHS 6471](#) – 20164 – Change prerequisites
10. [MHS 6831](#) – 20165 – Change to course title and co-requisites
11. [MHS 7600](#) – 20166 – Change prerequisites
12. [MHS 7610](#) – 20061 – Change to course type
13. [PLP 6905](#) – 20543 – Change maximum repeatable credit
14. [PLP 6921](#) – 20546 – Change maximum repeatable credit
15. [QMB 7933](#) – 20635 – Change maximum repeatable credit
16. [SPN 6845](#) – 20312 – Change prerequisites
17. [STA 6942](#) – 20040 – Change maximum repeatable credit
18. [SYA 7979](#) – 19853 – Change maximum repeatable credit
19. [SYA 7980](#) – 19854 – Change maximum repeatable credit
20. [WST 6935](#) – 19993 – Change maximum repeatable credit

Graduate Curriculum Committee

Agenda

December 12, 2024

Meeting Materials

Voting Conducted
via Zoom

I. Presentation and review of the Minutes from the November Meeting of the Graduate Curriculum Committee (GCC).

II. Update(s) to the Committee: The following was reviewed by the Graduate Curriculum Committee (GCC) previously. The GCC felt further follow-up and/or clarifications were necessary before the proposals could move forward to the University Curriculum Committee (UCC). Suggestions and/or follow-up required are noted below the proposals.

There are no updates to present at this time.

III. Course Change Proposals: The following proposals are newly requested revisions to existing courses already within the current course catalog in curriculum inventory. The changes requested are listed below each of the proposals.

MED – Health Outcomes and Biomedical Informatics

1. GMS 6846 *Systematic Review and Meta-Analysis in Clinical, Health Services Research and Public Health*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20696>

This is a request to change the credit hours from 2 to 3.

PHHP – Health Science

2. PHC 6149 *Public Health Leadership*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20694>

This is a request to change the change credit hours and course description.

IV. New 5XXX Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

SFRC – Fisheries, Aquatic Sciences, and Geomatics

1. FAS 6XXXC *Fish & Limnology*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20034>

An applied course that explores the multidisciplinary nature of fisheries science through a detailed examination of freshwater fish and habitats. Includes discussion of relevant fundamental concepts in ecology, chemistry, and geography. Practical skills in field sampling and data handling as well as skills (e.g. grant writing, science communication) and contemporary issues (e.g., ethical uses of AI tools) pertinent to fishery management and research will be applied.

v. New Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

COE – School of Human Development and Organizational Studies in Education

1. EDF 7XXX *Natural Language Processing in Education Research*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19061>

A comprehensive overview of NLP techniques and applications in educational research, with an emphasis on Python-based text analysis and machine learning integration.

2. EDH 6XXX *Data Management and Quantitative Workflow in Education Research*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/18439>

Students will learn the fundamentals of data management and quantitative research workflow in education research using common open-source tools. Topics include project organization, version control, data cleaning, data visualization, and performing exploratory data analyses. Students will also learn some special coding and/or data gathering techniques and, throughout the course, employ coding best-practices so that their workflow may be shared and easily reproduced.

CBA – Finance, Insurance and Real Estate

3. FIN 6XXX *Behavioral Finance*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20098>

Explores how psychological biases lead to poor financial decision making and how security market prices can be influenced by psychological bias. Also gives insights of how behavioral finance complements the traditional financial theory paradigms and sheds light on the behavior of asset prices, corporate finance, and investor behavior.

4. FIN 6XXX *Decentralized Finance Project*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20135>

Students work on a project in which student groups will formulate and present business proposals to be deployed on blockchain. To prepare students for constructing their proposals, course lectures will focus upon hurdles for blockchain businesses and solutions employed in practice to overcome those hurdles.

5. FIN 6XXX *Financial Intermediation, Financial Services and Technology*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20100>

An in-depth exploration of the theory and practice of financial intermediation is provided. An emphasis is on a comprehensive understanding of the role of financial intermediaries, their function in various financial markets, the services they provide, and the regulatory framework that governs these institutions. Special attention is given to how technology has revolutionized the landscape of financial intermediation, giving rise to innovative products and services.

6. FIN 6XXX *Financial Modeling for Investments*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20237>

Utilizes excel, Python and some basic R programming for important value creating financial activities such as securities modeling, portfolio optimization, value at risk analysis, and gathering/processing financial data. Hands on applications are emphasized.

7. FIN 6XXX *Introduction to Blockchain and Cryptocurrencies*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20126>

Students are introduced to the fundamental building blocks of blockchain technology and its applications in cryptocurrencies, stablecoins, decentralized finance (DeFi), and non-fungible tokens (NFTs).

8. FIN 6XXX *Natural Language Processing & Generative AI for Finance*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20236>

Students learn the principles and applications of natural language processing (NLP) and generative AI in finance. The curriculum covers theoretical foundations and practical implementations in tasks like sentiment analysis, automated trading, risk assessment, fraud detection, and financial forecasting.

CLAS – Geological Sciences

9. GLY 6XXX *Survey of Geobiology and Astrobiology*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20157>

Survey of the parallel evolution of life and the environment. Chemical and physical processes in the atmosphere, hydrosphere, cryosphere and the solid earth influence life

processes. In turn, life can influence chemical and physical processes on our planet. Explores the concept of life as a geological agent and examines the interaction between biology and the earth system during the roughly 4 billion years since life first appeared.

DCP – Interior Design

10.IND 6973 *Project in Lieu of Thesis*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20560>

Completion of an original research-informed design project that addresses an identified issue or need with the field of Interior Design that satisfies departmental requirements for a Project in Lieu of Thesis (PILOT). A PILOT is based on a specific design-focused topic that results in a written description of the problem identified and its significance, a synthesis of relevant literature, a description of programmatic considerations, proposed design solutions, and implications.

CLAS – Jewish Studies

11.JST 6XXX *The Holocaust in the Courtroom*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20616>

Introduces M.A. and Ph.D. students in humanities and social sciences to the major postwar trials concerning the Holocaust. Major questions concern the relevant laws under which perpetrators were tried; ways in which the Holocaust was represented through prosecution, documentary and visual evidence, and testimony; and the ways in which national memory affected outcomes of major trials.

COE – School of Teaching and Learning

12.MAE 6XXX *Mathematics Teaching and Learning in Higher Education*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20683>

Strategies for teaching mathematics in higher education. Explore learning theories, evidence-based teaching methods, and assessment strategies through readings, activity design, case discussions, and classroom observations.

PHPH – Public Health

13.PHC 6XXX *Public Health Methods 1: Quantitative Foundations*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20700>

This is the first of two courses that focuses on public health/global health research and practice using quantitative and qualitative methods. This course, taken in conjunction with a lab, focuses on principles of epidemiology and biostatistics, emphasizing application of

epidemiological methods, quantitative data collection, and quantitative data analysis and interpretation.

14.PHC 6XXX *Public Health Methods II: Applications for Practice*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20702>

The second of two courses focusing on public health/global health research and practice using quantitative and qualitative methods. This course introduces qualitative and mixed methods and their relevance to rigorous public health research and practice, emphasizing using qualitative methods to conduct needs and capacity assessments within communities and organizations.

CLAS – Political Science

15.POS 6XXX *Maximum Likelihood Estimation*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20041>

Explores Maximum Likelihood Estimation (MLE) and its applications in political science. Introduces Generalized Linear Models (GLMs) for categorical and limited dependent variables with a focus on political phenomena. Delves into survival analysis for modeling duration-dependent political data. Emphasizes practical application and advanced statistical understanding in American politics, comparative politics, and international relations.

CALS – Soil and Water Science

16.SWS 6XXX *Intro Modeling Soil, Water, and Ecosystem Processes*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/20601>

The course is an introduction into predictive modeling of soil, water, and ecosystem processes. Students learn from the ground up how to transform a conceptual model into a mathematical framework that then will be coded up in a simulation model. This hands-on experience serves the students to recognize how data can best serve models and how models can be used to interpret real world data.

vi. Information Items:

1. [CRW 6130](#) – 20592 – Change maximum repeatable credit
2. [DEN 6905](#) – 20748 – Change maximum repeatable credit
3. [DEN 6935](#) – 20746 – Change maximum repeatable credit
4. [DEN 6942](#) – 20743 – Change maximum repeatable credit
5. [FAS 6355C](#) – 20080 – Change course description
6. [FYC 6901](#) – 20318 – Change maximum repeatable credit
7. [GIS 6103](#) – 20065 – Change prerequisites

8. [GLY 6931](#) – 20609 – Change maximum repeatable credit
9. [GLY 6932](#) – 20608 – Change maximum repeatable credit
10. [PLP 6932](#) – 20547 – Change maximum repeatable credit
11. [VME 6140](#) – 20243 – Change course title from “Mucosal Immunology” to “VMS Graduate Journal Club: Mucosal Immunology” and change maximum repeatable credit