



SUMMER 2025

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*Commencement*

## **Alma Mater**

Florida, our Alma Mater  
Thy glorious name we praise  
All thy loyal sons and daughters  
A joyous song shall raise.  
Where palm and pine are blowing,  
Where southern seas are flowing,  
Shine forth thy noble Gothic walls,  
Thy lovely vine-clad halls.  
Neath the Orange and Blue victorious  
Our love shall never fail.  
There's no other name so glorious—  
All hail, Florida, Hail!

*Milton Yeats*

SUMMER 2025

# Commencement



## Congratulations from the Provost

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**O**n behalf of the entire University of Florida community, I would like to extend my heartfelt congratulations to you, the Doctoral Graduates of 2025.

Today's ceremony celebrates the culmination of an intense and demanding academic journey as you earn a doctoral degree from one of the nation's very best public research universities. I applaud you for your intellectual curiosity, in-depth research and scholarship and rigorous analysis of your findings. I join you in thanking all those who supported you on your journey: Your faculty advisors, mentors and family and friends.



Today is a day for celebration, and for reflection on your future.

Your doctoral degree is a valuable credential in your career ahead, whether you pursue a path in academe, the private sector, government or the nonprofit world. It also represents a responsibility, as you join alumni who have used their knowledge and skills to transform lives and positively change society.

The university has already benefited from your research, teaching, insights and discoveries. In the future, UF will benefit from your impact on the world around you. We hope that you will look back on this time with appreciation, and that you will remain connected to UF as active members of our distinguished alumni.

Doctoral graduates, you have my deepest admiration. Go Gators!

A handwritten signature in blue ink that reads "Joe Glover". The signature is fluid and cursive, with the first name "Joe" and last name "Glover" clearly legible.

Joe Glover



# University Leadership

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## Cabinet

### **Joseph Glover**

*Interim Provost and Executive Vice President – Academic Affairs*

### **J. Scott Angle**

*Senior Vice President – Agriculture and Natural Resources*

### **Chuck Clemons**

*Vice President – Government and Community Relations*

### **Melissa Curry**

*Vice President – Human Resources*

### **Kurt Dudas**

*Vice President – Strategic Initiatives*

### **Elias Eldayrie**

*Vice President and Chief Information Officer – Information Technology*

### **Ryan Fuller**

*Interim Vice President – General Counsel*

### **Nicholas Kozlov**

*Interim Chief Financial Officer*

### **Colt Little**

*Vice President – Construction, Facilities and Real Estate*

### **Maria Gutierrez Martin**

*Vice President – Advancement*

### **Stephen Motew**

*President and System Chief Executive Officer – UF Health*

### **David Norton**

*Vice President – Research*

### **Steve Orlando**

*Interim Vice President – Strategic Communications and Marketing*

### **Mary Parker**

*Vice President and Chief Enrollment Strategist*

### **Brandi Renton**

*Vice President – Business Affairs*

### **Scott Stricklin**

*Director – Athletics*

### **Heather White**

*Vice President – Student Life*

## Board of Trustees

**Morteza “Mori” Hosseini**, *Chair*

**Rahul Patel**, *Vice Chair*

**David Brandon**

**Richard Cole**

**Christopher Corr**

**Blake Cox**

**Jed Davis**

**Luisa Amelia Dempere**

**James Heavener**

**Daniel O’Keefe**

**Marsha Powers**

**Fred Ridley**

**Patrick Zalupski**

## Deans of the University

### **Chinemelu “Chimay” Anumba**

*College of Design, Construction and Planning*

### **Hubert “Hub” Brown**

*College of Journalism and Communications*

### **Warren Dixon**

*Herbert Wertheim College of Engineering*

### **A. Isabel Garcia**

*College of Dentistry*

### **Robert Gilbert**

*IFAS Research and Executive Director for Academic Affairs*

### **Glenn Good**

*College of Education*

### **Shakira Henderson**

*College of Nursing*

### **Jennifer Hunt**

*College of Medicine*

### **Kevin Ingersent**

*College of Liberal Arts and Sciences*

### **Andra Johnson**

*IFAS Extension*

### **Merritt McAlister**

*Levin College of Law*

### **Kati Migliaccio**

*College of Agricultural and Life Sciences*

### **Sabyasachi “Saby” Mitra**

*Warrington College of Business*

### **Michael Reid**

*College of Health and Human Performance*

### **Jennifer Setlow**

*College of the Arts*

### **Nicole Stedman**

*The Graduate School*

### **Christopher Summerlin**

*Dean of Students*

### **Peter Swaan**

*College of Pharmacy*

### **Beth Virnig**

*College of Public Health and Health Professions*

### **Marta Wayne**

*International Center*

### **Dana Zimmer**

*College of Veterinary Medicine*

# DOCTORAL COMMENCEMENT PROGRAM

## FRIDAY, AUGUST 8, 2 P.M.

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Processional	UF Commencement Band
National Anthem	Anthony Offerle <i>Vocalist</i> UF Commencement Band
Opening Remarks and Introductions	Joseph Glover <i>Interim Provost and Executive Vice President, Academic Affairs</i>
Commencement Address	Azra Bihorac <i>Senior Associate Dean for Research Affairs, College of Medicine</i>
Presenting Candidates for Degrees	Joseph Glover
Conferring of Degrees	Amelia Dempere <i>Member, UF Board of Trustees</i>
Closing Remarks	Joseph Glover
Alma Mater	Anthony Offerle UF Commencement Band
Recessional	"I Won't Back Down" ©1989 Written by Tom Petty and Jeff Lynne Performed by Tom Petty Album: <i>Full Moon Fever</i>

## COMMENCEMENT SPEAKER

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### **Azra Bihorac, M.D., M.S.**

*Senior Associate Dean for Research Affairs,  
University of Florida College of Medicine*

Azra Bihorac, M.D., M.S., is the senior associate dean for research affairs at the University of Florida College of Medicine, where she holds the R. Glenn Davis Professorship in Medicine, Surgery, Anesthesiology, and Biomedical Engineering.

She serves as director for both the Precision and Intelligent Systems in Medicine Research Partnership and the Intelligent Clinical Care Center, a multidisciplinary hub for advancing real-world applications of medical artificial intelligence in research, education, and patient care.

Dr. Bihorac's professional journey spans continents — from her formative years as a medical student at the University of Sarajevo in Bosnia and Herzegovina to clinical training and research in Istanbul, Turkey, and finally to her academic home at UF. She is a survivor of the Bosnian war, and her pathway from a refugee to American citizen ran in parallel to her professional career. Her personal experience of war, persecution, and displacement shaped her interests, beliefs, and alliances. Dr. Bihorac is an outspoken advocate for science and medicine, both as a holistic mentor and a catalyst for new ideas. She is a dedicated mentor to more than 100 undergraduate students, graduate trainees, postdoctoral fellows, and junior faculty across the globe.

A visionary leader in biomedical AI, Dr. Bihorac is internationally recognized for her contributions to clinical informatics and translational research in nephrology and acute care medicine. As a physician-scientist whose



work blends artificial intelligence, medicine, and innovation, her research focuses on deploying ambient, immersive, and human-centered AI technologies to optimize the diagnosis, monitoring, and treatment of acutely ill patients.

Since 2010, she has maintained continuous National Institutes of Health funding and currently co-leads national initiatives developing a national roadmap for integrating AI in clinical care. Dr. Bihorac has authored more than 290 peer-reviewed publications and multiple textbooks. Her mission: To create intelligent human-centered health care, where innovation, technology, and excellence are aligned to deliver optimal quality and experience for every patient, caregiver, and healthcare provider.

# GRADUATE SCHOOL

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NICOLE STEDMAN, PH.D., ASSOCIATE PROVOST AND DEAN OF THE GRADUATE SCHOOL

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## DOCTOR OF PHILOSOPHY

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### **Gabriela Marie Abadia-Doyle**

Major: *Mechanical Engineering*

Dissertation: Lobatto-Type Orthogonal Collocation Methods for Optimal Control

Dissertation Chair: Anil V. Rao

### **Sumaya Mohammed Saleem Abuloha**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Novel Treatments for Infantile Spinal Muscular Atrophy: A Pharmacoeconomic Analysis of Budget Impact, Cost-Effectiveness, and Outcomes-Based Payment Models

Dissertation Chair: Mikael Svensson

Dissertation Co-chair: Amie J. Goodin

### **Daniel Eduardo Acosta Gandur**

Major: *Public Health—One Health*

Dissertation: A One Health Approach to Food and Nutritional Security in the Sahel in Response to Environmental Hazards

Dissertation Chair: Sarah Lindley McKune

### **Oluwatoba George Adedokun**

Major: *Mechanical Engineering*

Dissertation: Integrating Valve-Enabled Sample Preparation Device With Isothermal Amplification for Detection of HIV and Mosquito-Borne Viruses

Dissertation Chair: Z. Hugh Fan

### **Mosúnmọ́lá Ọmọwùnmí Adéòjọ**

Major: *English*

Dissertation: Hidden in Layered Robes: Text, Tune, and Cultural Agency in Rev. Canon J.J. Ransome-Kutis's Yorùbá Anglicanism

Dissertation Chair: Leah Reade Rosenberg

Dissertation Co-chair: Apollo Obonyo Amoko

### **Lovely Adhikary**

Major: *Entomology and Nematology*

Dissertation: Development of Sustainable Management Practices of *Scirtothrips dorsalis* Hood in Florida Strawberry

Dissertation Chair: Sriyanka Lahiri

### **Piyush Agade**

Major: *Agricultural and Biological Engineering—Hydrologic Sciences*

Dissertation: Application and Evaluation of Lagrangian Water Quality Monitoring in Detection of Sources of Pollution in Urban Streams

Dissertation Chair: Eban Zachary Bean

### **Oluwamayowa Samuel Akinsuyi**

Major: *Microbiology and Cell Science*

Dissertation: Integrated Multi-Omics Analysis Reveals a Shared Leaky Gut Signature Across Aging, Osteoporosis, and Spaceflight

Dissertation Chair: Luiz Fernando Roesch

### **Hasan Al Shaikh**

Major: *Electrical and Computer Engineering*

Dissertation: Self-Evolving and Self-Learning Methodologies for Dynamic Security Verification of System-On-Chip Designs

Dissertation Chair: Mark Tehranipoor

**Hamad A. Alhatem**

Major: *Counseling and Counselor Education—Mental Health Counseling*

Dissertation: Adverse Childhood Experiences and Perceived Social Support as Predictors of Depression Among College Students in Kuwait

Dissertation Chair: Sondra Lori Smith

Dissertation Co-chair: Melissa Ann Mariani

**Acquel Allen-Mitchell**

Major: *Public Health—Social and Behavioral Sciences*

Dissertation: Studentification and Social Determinants of Health in East Gainesville: An Exploratory Study

Dissertation Chair: Brittney Nicole Dixon-Daniel

**Sai Pranesh Amiriseti**

Major: *Electrical and Computer Engineering*

Dissertation: High-Performance Microinductors Using Electro-Infiltrated Magnetic Nanocomposites

Dissertation Chair: David P. Arnold

**Kelvin Kofi Koteyfio Amon**

Major: *Food and Resource Economics*

Dissertation: Economic and Behavioral Dynamics in Pest Management Technology Adoption

Dissertation Chair: Tara R. Wade

Dissertation Co-chair: Zhifeng Gao

**Patrick McGill Amy**

Major: *Mechanical Engineering*

Dissertation: Lyapunov-Based Indirect Control of Robotic Systems

Dissertation Chair: Warren E. Dixon

**Marcia M. Anderson**

Major: *Classical Studies*

Dissertation: The Revoiced Victim: Examining the Silenced Narrative Motif in Greek Literature

Dissertation Chair: Eleni Bozia

**Kelsey Marie Arroyo**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: A Delphi Study to Develop Expert Consensus on the Delivery of Psychological Follow-Up Care Post-Bariatric Surgery

Dissertation Chair: Kathryn Marie Ross

**Meysam Asghari**

Major: *Electrical and Computer Engineering*

Dissertation: Hardware Security and High-Frequency Wireless Communication

Dissertation Chair: Yong-Kyu Yoon

Dissertation Co-chair: Nima Maghari

**Akshara Athelly**

Major: *Agricultural and Biological Engineering*

Dissertation: Development of Integrated Sweetcorn Research and Extension Programs in Florida Commercial Fields to Increase Farmers' Trust in Data-Based Irrigation Scheduling

Dissertation Chair: Sandra M. Guzman

**Rebecca Jane Austin-Datta**

Major: *Epidemiology*

Dissertation: The Effects of Changing Risk Factor Definitions on Their Association With Survival in Patients With Colorectal Peritoneal Metastases

Dissertation Chair: Stephen Kimmel

**Morgan Alexandria Averette**

Major: *Sociology*

Dissertation: Playing Outside the Binary: Trans and Non-Binary Experiences in Sports

Dissertation Chair: Rebecca Annice Hanson

Dissertation Co-chair: Kendal Broad

**Kelsey Corinne Bacharz**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Exploring the Quality of Life Impact of Caregiving for a Patient Diagnosed With a Primary Brain Tumor: A Mixed Method Study

Dissertation Chair: Deidre B. Pereira

**Jared Michael Baggett**

Major: *Medical Sciences—Medical Physics*

Dissertation: Development of a Pediatric Mesh-Based Computational Phantom Library and Applications for Computed Tomography and Tumor Volume Dosimetry

Dissertation Chair: Wesley Emmett Bolch

**Xue Bai**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Assessment of Sugarcane and Flooded Rice Crop Rotation Effects on Soil and Water Quality in the Everglades Agricultural Area, Florida

Dissertation Chair: Jehangir Bhadha

Dissertation Co-chair: Samuel Smidt

**Yihang Bai**

Major: *Electrical and Computer Engineering*

Dissertation: Model Guided Embedded Firmware Analysis

Dissertation Chair: Tuba Yavuz

**Jeremy Andrew Balch**

Major: *Medical Sciences—Biomedical Informatics*

Dissertation: RAG, Splat, Surprise: Artificial Intelligence Applications for Quality Improvement in Surgery

Dissertation Chair: Benjamin Shickel

Dissertation Co-chair: Tyler John Loftus

**Wenxuan Bao**

Major: *Computer Science*

Dissertation: Towards Reliable and Practical Privacy-Preserving Machine Learning

Dissertation Chair: Vincent Bindschaedler

**Hailey Ann Barker**

Major: *Microbiology and Cell Science*

Dissertation: Identification of Novel Functions of Cannabinoid Receptor Signaling and Cannabinoid Treatment in Regulating Host Defense Mechanisms Against *Salmonella*

Dissertation Chair: Mariola J. Ferraro

**Luke Andre Bauer**

Major: *Computer Science*

Dissertation: Covert Messaging Using Generative Steganography: Challenges and Tradeoffs

Dissertation Chair: Vincent Bindschaedler

**Jacobi Isaiah Bedenfield**

Major: *Agricultural Education and Communication*

Dissertation: Sustaining Student Well-Being: An Organizational Leadership Analysis of the Need, Implementation, and Effectiveness of Food Security Programs at Land-Grant Universities

Dissertation Chair: Nicole L.P. Stedman

**Benjamin A. Begley**

Major: *Materials Science and Engineering*

Dissertation: An Integrated Computational Materials Engineering Approach to Predicting Local Texture Evolution in Two-Phase Titanium Alloys

Dissertation Chair: Victoria Mayne Miller

**William B. Benda**

Major: *Human-Centered Computing*

Dissertation: Remapped Interaction Detection Considering User Awareness in Virtual Reality

Dissertation Chair: Eric Ragan



**Ebonie S. Bennett**

Major: *Curriculum and Instruction*

Dissertation: The Confessions of a Negotiated Black Youth: An Autoethnographic Account of Antiracism and American Public Schools

Dissertation Chair: Vicki A. Vescio

**Md Kawser Bepary**

Major: *Electrical and Computer Engineering*

Dissertation: Pre-Silicon Side-Channel Leakage Assessment and Instruction Disassembly in Secure Hardware Design

Dissertation Chair: Mark Tehranipoor

**Marah Beth Berry**

Major: *Environmental Engineering Sciences*

Dissertation: Engineering Culture of Ethical Dissonance: A Discourse Analysis

Dissertation Chair: Elliot Paul Douglas

**Saurabh Bhandari**

Major: *Statistics*

Dissertation: Bayesian Machine Learning Models for Causal Mediation Analysis of Longitudinal Data

Dissertation Chair: Michael Joseph Daniels

**Raju Bhatia**

Major: *Mechanical Engineering*

Dissertation: Experimental Study of Ionic Liquid Based Semi-Open Double Effect Absorption System for Dehumidification

Dissertation Chair: Saeed Moghaddam

**Shubhagata Bhaumik**

Major: *Physics*

Dissertation: Search for Eccentric Binary Black Hole Mergers With Gravitational Waves

Dissertation Chair: Imre Bartos

Dissertation Co-chair: Sergey Klimenko

**Glen Billesbach II**

Major: *Political Science*

Dissertation: AI and the Exercise of Freedom: The Politics of Personal and Planetary Prediction

Dissertation Chair: Leslie Paul Thiele

**Abdulelah Abdulwahab S. BinDajim**

Major: *Linguistics*

Dissertation: Language Maintenance, Language Shift and Intergenerational Transmission Among Urdu-Speaking Community in the United States

Dissertation Chair: Hélène Blondeau

**Liton Kumar Biswas**

Major: *Electrical and Computer Engineering*

Dissertation: Securing Advanced Packaging and Silicon Photonics: Probing Vulnerabilities and Fingerprinting Approaches

Dissertation Chair: Navid Asadi Zanjani

**Shelby L. Blaes**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Effects of Virtual Reality Bar Welcomeness on Drinking Topography in Sexual and Gender Minorities and Non-Sexual and Gender Minorities

Dissertation Chair: Jeff Boissoneault

Dissertation Co-chair: Mike E. Robinson

**Omar Boloki**

Major: *Chemical Engineering*

Dissertation: Fundamental Understanding of Gas Transport in Novel Hybrid Membranes and Porous Materials via Pulsed Field Gradient NMR

Dissertation Chair: Sergey Vasenkov

**Kimberly I. Bonvechio**

Major: *Fisheries and Aquatic Sciences*

Dissertation: *Lessons From a Long-Term Freshwater Fisheries Monitoring Program: The Florida Experience*

Dissertation Chair: Andrew Kenneth Carlson

**James Christopher Boothroyd**

Major: *Entomology and Nematology*

Dissertation: *Sexual Selection and Its Associated Trade-Offs in the Leaf Footed Cactus Bug*

Dissertation Chair: Phil Hahn

**Sarah Ann Bottari**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *Hyperarousal, Sleep, and Cognitive Functioning in Veterans with Posttraumatic Stress Disorder and the Potential Modifying Effects of Transcutaneous Vagus Nerve Stimulation*

Dissertation Chair: John B. Williamson

Dissertation Co-chair: Ronald A. Cohen



**Jessica Marie Bove**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Influence of Lifetime Head Trauma Exposure on Neurodegeneration in Frontotemporal Dementia

Dissertation Chair: Russell M. Bauer

Dissertation Co-chair: Breton Asken

**Caleb Michael Bowyer**

Major: *Electrical and Computer Engineering*

Dissertation: Reinforcement Learning for Sensor Network Fusion

Dissertation Chair: John Mark Shea

Dissertation Co-chair: Warren E. Dixon

**Alicia Annette Boyd**

Major: *Zoology—Animal Molecular and Cellular Biology*

Dissertation: Investigating the Ontogenetic Variation of Regenerative Ability in the Annelid *Capitella teleta*

Dissertation Chair: Elaine Seaver

**Brittany Latrice Bridges**

Major: *Counseling Psychology*

Dissertation: Warped Histories and Afro Futures: A Qualitative Metasynthesis of the Impacts of Historical Oppression on Conceptualizations of Black Identity Within Psychological Science

Dissertation Chair: Ryan Duffy

**Mark Britton**

Major: *Epidemiology*

Dissertation: Assessment of Alcohol Reduction-Related Change in CNS-Relevant Biomarkers in People With and Without HIV

Dissertation Chair: Robert L. Cook

Dissertation Co-chair: Eric S. Porges

**Corrine Faye Buchanan**

Major: *Counseling and Counselor Education—Mental Health Counseling*

Dissertation: A Hermeneutic Photography Study of Trans Women and Trans Femme Geeks Queer Joy

Dissertation Chair: Ana Puig

**Matthew Ryan Burke**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Design, Synthesis, and Evaluation of Hsp90 Chaperone Protein-Recruiting Chimeras (CHATAcs)

Dissertation Chair: Guangrong Zheng

**Jacob Thomas Caldwell**

Major: *Political Science*

Dissertation: The Political Implications of Precarious Work

Dissertation Chair: Michael D. Martinez

Dissertation Co-chair: David T. Macdonald

**Paul E. Calzada**

Major: *Electrical and Computer Engineering*

Dissertation: Enforcing Integrity in the SiP Supply Chain

Dissertation Chair: Mark Tehranipoor

**Mert Canatan**

Major: *Agricultural and Biological Engineering*

Dissertation: A Comprehensive Digital Twin Framework for Retail Refrigerated Display Cases

Dissertation Chair: Ziyne Boz

Dissertation Co-chair: Rafael Muñoz-Carpena

**Jiping Cao**

Major: *Forest Resources and Conservation—Geomatics*

Dissertation: Modelling Behavioral Changes in User-Generated Content Contributions Across Multiple Platforms

Dissertation Chair: Hartwig H. Hochmair

**Matthew James Capaldi**

Major: *Higher Education Administration*

Dissertation: The Route to Retention: A Quasi-Experimental Analysis of the Association Between Transit Stop Proximity and First-Year Retention Rates at US Commuter Colleges

Dissertation Chair: Justin C. Ortagus

Dissertation Co-chair: Zyrashae Smith-Onyewu

**Cody Lee Case**

Major: *Music—Music History and Literature*

Dissertation: Drumming in the Breaks of Blocos Afro: Ancestrality and Black Resistance in Salvador, Brazil

Dissertation Chair: Silvio dos Santos

**Steven Cassidy**

Major: *Zoology*

Dissertation: Polydomy in a Social Spider: Consequences of Colony Fragmentation for *Stegodyphus dumicola* Behavioral, Disease, and Trophic Ecology

Dissertation Chair: Nick Keiser

**Allison Cauvin**

Major: *Interdisciplinary Ecology—Microbiology and Cell Science*

Dissertation: Examining the Role of Microbes in *Orbicella faveolata* Disease Dynamics

Dissertation Chair: Julie Meyer

Dissertation Co-chair: Andrew Harlan Altieri

**Franky Celestin**

Major: *Soil and Water Sciences*

Dissertation: Evaluating the Use of Soil Health Frameworks to Promote Conservation Management in Diverse Cropping Systems

Dissertation Chair: Yang Lin

Dissertation Co-chair: Rao Mylavarapu

**Vinicius Andrei Cerbaro**

Major: *Agricultural and Biological Engineering*

Dissertation: Scaling-Up the Strawberry Advisory System With the Use of Machine Learning and Gridded Weather Data Products

Dissertation Chair: Clyde William Fraisse

**Reha Atakan Çetin**

Major: *Sociology*

Dissertation Chair: Alin Mihai Ceobanu

**Peter Shuwei Chang**

Major: *Biostatistics*

Dissertation: Heterogeneous Outcome Functions Estimation Under Multiple-Treatments

Dissertation Chair: Arkaprava Roy

**Lexin Chen**

Major: *Chemistry*

Dissertation: MDANCE: Efficient and Versatile Clustering for Molecular Dynamics

Dissertation Chair: Ramón Alain Miranda Quintana

**Xiaoyu Chen**

Major: *Design, Construction and Planning—Interior Design*

Dissertation: Barriers and Facilitators to the Integration of Sustainable Interior Materials in Healthcare Facilities

Dissertation Chair: Lisa Sundahl Platt

**Jiun-Yao Cheng**

Major: *Design, Construction and Planning—Construction Management*

Dissertation: AIStory: Using Storytelling to Enhance AI Literacy of Construction Students

Dissertation Chair: Masoud Gheisari

Dissertation Co-chair: Idris Jeelani

**Yi-Hua Chiang**

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Translational Pharmacokinetic Assessment of *Mitragyna speciosa* (Kratom), a Potential Treatment Option for Opioid Use Disorder

Dissertation Chair: Abhisheak Sharma

**Nicholas J. Chin**

Major: *Environmental Engineering Sciences*

Dissertation: Investigating Coastal Physics, Chemistry, and Ecology Through a Merger of Machine Learning and Process-Based Models

Dissertation Chair: David Andrew Kaplan

**Chia-Chu Chu**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Evaluating Salt Marsh Morphodynamic Evolution via Watershed Divides

Dissertation Chair: Alberto Canestrelli

**Sharon Xin Ying Chuah**

Major: *Food Science*

Dissertation: Strategic Framework Towards Cell-Based Seafood Production

Dissertation Chair: Razieh Farzad

**Tyler Carawan Cline**

Major: *History*

Dissertation: To Slake the Thirst of Liberty: Transnational Anglo-Saxonism and the Age of Retrenchment, 1830–1890

Dissertation Chair: Jessica Leigh Harland-Jacobs

**Scott Andrew Cohen**

Major: *Epidemiology*

Dissertation: Hospital Transmission and Outbreak Detection of Antimicrobial-Resistant Bacterial Pathogens Using Genomic and Real-World Data

Dissertation Chair: J. Glenn Morris

Dissertation Co-chair: Mattia Prosperi

**Zuania Colón-Piñeiro**

Major: *Zoology*

Dissertation: Life-History Strategies and Disease Resilience in Amphibians: Adaptive Responses to Seasonal Pathogen Pressures

Dissertation Chair: Ana V. Longo

**Michelle Lynn Commeret**

Major: *Curriculum and Instruction*

Dissertation: Developing Identity Literacy Through Photovoice: Snapshots of Curriculum and Learning in English Language Arts

Dissertation Chair: Zhihui Fang

Dissertation Co-chair: Taryn Brown

**Landen Joseph Conway**

Major: *Physics*

Dissertation: Higher-Order Effects in the Dynamics of Hierarchical Triple Systems

Dissertation Chair: Clifford Martin Will

**Kristine Mary Crane**

Major: *Mass Communication*

Dissertation: Bound: Mothers, Relocation, and Social Media Affordances

Dissertation Chair: Jasmine E. McNealy

**Rayven Nychole Crisafulli**

Major: *Health and Human Performance—Recreation, Parks and Tourism*

Dissertation: All Are Welcome Here: Event Brand Authenticity, Existential Connection, and Re-Attendance at EDC

Dissertation Chair: Rachel J.C. Fu



**Shaurya Singh Dabas**

Major: *Electrical and Computer Engineering*

Dissertation: Piezoelectric on Semiconductor Bulk Acoustic Wave Resonators for Stable Frequency Reference Generation

Dissertation Chair: Roozbeh Tabrizian

**Nader F. Dagher**

Major: *Mass Communication*

Dissertation: Rejecting Imperialism: Exploring the Narrative, Discourse, and Motivations of the U.S. Solidarity Movement With Palestine

Dissertation Chair: Rachel L. Grant

Dissertation Co-chair: Spiro K. Kiouisis

**Ruochen Dai**

Major: *Electrical and Computer Engineering*

Dissertation: Model Guided Hybrid Analysis for Hardware Security

Dissertation Chair: Tuba Yavuz

**Luana M. Dantas Queiroz**

Major: *Agronomy*

Dissertation: Nutrient Cycling in Integrated Crop-Livestock Systems

Dissertation Chair: Jose Carlos Dubeux Jr.

Dissertation Co-chair: Marcelo Wallau

**Jamielyn Daugherty Hagyard**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: A Comparative Analysis of Botanical Garden Educational Tours Impact on Learning and Behavioral Change

Dissertation Chair: Kimberly Moore

Dissertation Co-chair: Sandra Barbour Wilson

**Alexis Ciara Davis**

Major: *Linguistics*

Dissertation: Black Mecha(Linguistics): Addressing Antiracism in Automated Speech Recognition Systems

Dissertation Chair: Alayo Tripp

Dissertation Co-chair: Ratree Wayland

**Marcus Edward Davis**

Major: *Philosophy—Ethics of Technology*

Dissertation: Gaming the System: A Philosophical Analysis

Dissertation Chair: Jaime Ahlberg

**Emma Katherine Dawson**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Soil Microbiome Dynamics in Response to Modified Cultural Practices and Chemical Inputs Within Citrus Agroecosystems

Dissertation Chair: Sarah L. Strauss

**Marielle De Moraes Berto**

Major: *Entomology and Nematology*

Dissertation: Phoretic Mites on Ambrosia Beetles in South Florida Avocados: Diversity, Ecology and Biological Control Potential

Dissertation Chair: Daniel Carrillo

**Lais de Oliveira Lima**

Major: *Animal Sciences*

Dissertation: Sustainable Ruminant Production in Grazing Systems

Dissertation Chair: Diwakar Vyas

**Daniel Alexander Delgado**

Major: *Computer Science*

Dissertation: Enhancing Collaborator Communication Through Shared-Gaze Visualizations in Augmented Reality

Dissertation Chair: Jaime Ruiz



**Lynhe Demesyeux**

Major: *Entomology and Nematology*

Dissertation: Host Range, Behavior, and Control Methods of *Aphelenchoides pseudobesseyi* in Florida

Dissertation Chair: William T. Crow

**Stephanie Arlene Denardo**

Major: *Political Science*

Dissertation: Households of Knowledge: Women, Relationships, and Spaces for Constructing a Discipline of International Relations in Mid-Twentieth Century United States

Dissertation Chair: Aida A. Hozic



**Jaideep Kaur Deol**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Identifying the Genetic Factors Conferring HLB Tolerance in Finger Limes

Dissertation Chair: Manjul Dutt

**Antonio Luis Diaz**

Major: *Aerospace Engineering*

Dissertation: The Bathy-Drone: An Autonomous Uncrewed Drone-Tethered Sonar System

Dissertation Chair: Peter G. Ifju

**Maximillian T. Diaz**

Major: *Biomedical Engineering*

Dissertation: Comparing Personalization Methods for Hand Musculoskeletal Models Using Large and Dense Experimental Biomechanics Datasets

Dissertation Chair: Jennifer A. Nichols

**Chi Ding**

Major: *Mathematics*

Dissertation: Learnable Multi-Domain Optimization Algorithms for Inverse Problems: Theories and Applications

Dissertation Chair: Lei Zhang

Dissertation Co-chair: Yunmei Chen

**Lillian Grace Dinkins**

Major: *Forest Resources and Conservation*

Dissertation: Beyond the Canopy: An Assessment of Tree Giveaway Programs, Urban Reforestation, and City Resilience in the Southeastern U.S.

Dissertation Chair: Mysha Clarke

**Laura Elizabeth Dinwiddie**

Major: *Biomedical Engineering*

Dissertation: Advancing Patient-Centric and Manufacturer-Specific Computed Tomography Dosimetry: Phantom Development, Dose Library Creation, and Modulation Algorithm Assessment

Dissertation Chair: Wesley Emmett Bolch

**Jason Christopher Dossett**

Major: *Agricultural Education and Communication*

Dissertation: Adoption and Implementation of Instructional Improvement: A Collective Case Study of Early Career School-Based Agricultural Education Teachers

Dissertation Chair: Tre Easterly

**Imtiaz Masfique Dowllah**

Major: *Health and Human Performance—Exercise Physiology*

Dissertation: Mitochondrial ABCB7 Transporter Plays a Role in Exercise-Induced Protection Against Doxorubicin Cardiac and Respiratory Muscle Toxicity

Dissertation Chair: Ashley Joslin Smuder

Dissertation Co-chair: Thomas Clanton

**Seth Thomas Downing**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Provider Perspectives of Youth Hoarding Behaviors

Dissertation Chair: Joseph Patrick Hill McNamara

**Darby Battle Drageset**

Major: *Curriculum and Instruction—Science Education*

Dissertation: The Pursuit of the Full Inclusion of Autistic Individuals in Non-Formal Science Learning Environments

Dissertation Chair: Kent J. Crippen

**William Grady Dyer**

Major: *Linguistics*

Dissertation: The Syntax of Relative Clauses in Sereer

Dissertation Chair: Fiona McLaughlin

Dissertation Co-chair: Eric H. Potsdam

**Paul Stuart Edwards**

Major: *Physics*

Dissertation: Tilt-to-Length Simulation and Sideband Locking for the Laser Interferometer Space Antenna

Dissertation Chair: Paul Fulda

**Jithran Nashon Wainwright Ekanayake**

Major: *Agricultural and Biological Engineering*

Dissertation: Bioregenerative Bioplastic Production in Space

Dissertation Chair: Ana D. Martin-Ryals

Dissertation Co-chair: Amor Menezes

**Shae Esmaeili**

Major: *Human-Centered Computing*

Dissertation: Investigating Human Perception of Motion-Based Encoding Techniques for Visualizing Quantitative Data

Dissertation Chair: Eric Ragan

**Elizabeth Marie Evans**

Major: *Rehabilitation Science—Neuromuscular Plasticity*

Dissertation: Stress and Stroke: An Exploration of Allostatic Load in Stroke Using the National Health and Nutrition Examination Survey

Dissertation Chair: Charles Ellis Jr.

**Macodou Fall**

Major: *Religion*

Dissertation: Mediating Bamba: The Exegesis of Islamic Poetry Among Mourides

Dissertation Chair: Benjamin Soares

**Jacob Andrew Fiala**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Demographic Adjustment Is Not Demographic Correction: A Three-Study Investigation of the Validity of Neuropsychological Test Norming Practices

Dissertation Chair: Michael Marsiske

**Roy Thomas Forestano**

Major: *Physics*

Dissertation: Interpretable Machine Learning Algorithms for High Energy and Astro-Physics

Dissertation Chair: Jeffrey J. Andrews

**Metolo Foyet**

Major: *Geography—Tropical Conservation and Development*

Dissertation: Using Digital and Rights-Based Approaches to Understand Institutional Linkages Between Social Media, Wildlife Activism and the New Conservation Movement in Southern Africa: Views From Non-State Rural Actors

Dissertation Chair: Brian Anthony Child

**Marc-Sonley Francois**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Exploring Black High School Students' Perceptions of Cultural Relevance in STEM-Related Extended Reality Apps: A Qualitative Study

Dissertation Chair: Nigel Arthur Newbutt

**Ahmad Fraz**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Investigating Nutritional Strategies to Attenuate Inflammation and Improve Performance of Transition Dairy Cows

Dissertation Chair: Corwin Nelson

**Quentin Scott Frederick**

Major: *Agricultural and Biological Engineering*

Dissertation: Multiclass Citrus Disease Inspection With Hyperspectral Imaging & Deep Learning for Automation of At-Harvest Citrus Disease Mapping

Dissertation Chair: Thomas Francis Burks

Dissertation Co-chair: Jonathan A. Watson



**Breanne Nichole Freeman**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Preclinical and Clinical Development of Kava in Lung Cancer Prevention

Dissertation Chair: Chengguo (CX) Xing

**Megan Hanna Fry**

Major: *Anthropology*

Dissertation: Personhood and Placemaking: Investigating Identity Through Combined Isotopic, Mortuary, and Landscape Analysis in Early Medieval Britain

Dissertation Chair: John Krigbaum

**Daniel Gal**

Major: *Microbiology and Cell Science*

Dissertation: Growth and Ploidy of *Haloferax volcanii* at Different Levels of Phosphate and the Role of Orc1 Homologs and Lysine Acetylation on Response to Phosphate Limitation and Ultraviolet Stress

Dissertation Chair: Julie A. Maupin



**Yiming Gao**

Major: *Electrical and Computer Engineering*

Dissertation: FPGA-based Domain-Specific Architectures (DSAs): In the Cloud and on the Computing Edge

Dissertation Chair: Herman Lam

**Yujuan Gao**

Major: *Food and Resource Economics*

Dissertation: Examining Information and Communications Technologies (ICT) and Human Capital Development in Developing Contexts: Case Studies From Nigeria and Rural China

Dissertation Chair: Conner Codling Mullally

**Ellen Garcia**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Investigating the Molecular Basis of Passion Fruit Shelf Life: A Multi-Omics Trait Discovery Approach

Dissertation Chair: Tie Liu

Dissertation Co-chair: Ali Sarkhosh

**Upasana Gayen**

Major: *Chemistry*

Dissertation: Enantioselective Catalytic Strategies Using StackPhos-Based Ligands for the Synthesis of Chiral Nitrogen-Containing Compounds: Palladium(II)-Catalyzed Overman Rearrangement and Copper(I)-Catalyzed Borylation Reaction

Dissertation Chair: Aaron Aponick

**Gregory Gazda**

Major: *Chemistry*

Dissertation: Dearomatization of Pyridazine: Cyanation, Alkylation, and Enantioselective Alkynylation

Dissertation Chair: Aaron Aponick

**Anthony Remy Gebhart**

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Model-Informed Dose Selection: Optimizing Therapy for Special Populations Through Population PK/PD Modeling and Simulation

Dissertation Chair: Stephan Schmidt

Dissertation Co-chair: Francine Johansson Azeredo

**Karina Milena Gelis Cadena**

Major: *Statistics*

Dissertation: Nonparametric Methods for Complex Survival Analyses

Dissertation Chair: Michael Joseph Daniels

Dissertation Co-chair: Aaron J. Molstad

**Shajib Ghosh**

Major: *Electrical and Computer Engineering*

Dissertation: Intelligent Multimodal PCB Inspection With Explainable AI, Physics-Informed Neural Networks, and LLM-Based Interpretation

Dissertation Chair: Navid Asadi Zanjani

Dissertation Co-chair: Mark Tehranipoor

**Christina Eve Gilmour**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Heaviness of Drinking and Negative Urgency as Moderators of the Effect of Pain on Drinking Topography Using an Individualized Painful Heat Paradigm

Dissertation Chair: Jeff Boissoneault

Dissertation Co-chair: Mike E. Robinson

**Nicole Giorgi**

Major: *Chemistry*

Dissertation: Catalytic Applications of Dinuclear Cobalt and Iron Complexes Supported by Bisdipyrromethane Ligand Scaffolds

Dissertation Chair: Keith Searles

**Teresa Marie Goff**

Major: *School Psychology*

Dissertation: Exploring Parental Aggravation as a Moderator in the Relationship Between Adverse Childhood Experiences and School Engagement

Dissertation Chair: Christopher James Anthony

**Heather Lee Gonyeau**

Major: *History*

Dissertation: Healing in Exile: Cuban Doctors and the Politics of Health in the Cold War

Dissertation Chair: Heather A. Vrana

**Yaslin N. Gonzalez**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Cover Crop and Spatial-Temporal Effects on Soil Health in Tree Crop Systems With Coarse-Textured Soils

Dissertation Chair: Gabriel Maltais-Landry

**Felipe González-Silva**

Major: *English*

Dissertation: Malleable Geographies in the Cinema of Exploration

Dissertation Chair: Barbara C. Mennel

**Daniel Raymond Greene**

Major: *Mechanical Engineering*

Dissertation: Microfluidic Membrane and Ion Recovery Modules for Wearable Artificial Kidney

Dissertation Chair: Saeed Moghaddam

**Taylor Leigh Griffin**

Major: *School Psychology*

Dissertation: School Psychologists' Consideration of Behavioral Exclusionary Criteria in SLD Identification Decisions

Dissertation Chair: Kathrin Maki

**Boyang Gu**

Major: *Mechanical Engineering*

Dissertation: A Multiscale Study on Concurrent Dislocation Dynamics and Fracture

Dissertation Chair: Youping Chen

**Thays Guerra Araujo Duarte**

Major: *Civil Engineering*

Dissertation: Advancing Performance-Based Wind Engineering: A Data-Informed Probabilistic Approach for Evaluating Wind-Excited Building Systems

Dissertation Chair: Arthriya Subgranon

**Christopher Kevin Gulick**

Major: *Wildlife Ecology and Conservation*

Dissertation: Dispersal, Survival, and Regional Habitat Use of the American White Ibis

Dissertation Chair: Abby Powell

**Rui Guo**

Major: *Electrical and Computer Engineering*

Dissertation: Paradigm Shift in Security for Globalized Semiconductor Supply Chains: Integrating IP Trust and Protection Into IC Design Process

Dissertation Chair: Farimah Farahmandi

**Sristi Das Gupta**

Major: *Civil Engineering*

Dissertation: Implementation of a Low-Carbon, Cost-Effective SCM (Slag, Fly Ash, and Calcine Clay) Concrete Blends Combined With Type IL Cement for Sustainable Construction

Dissertation Chair: Kyle Austin Riding



**George Victor Haman III**

Major: *Aerospace Engineering*

Dissertation: Error Estimation and Mesh Refinement for Optimal Control Using Direct Collocation With Astrodynamics Applications

Dissertation Chair: Anil V. Rao

**Meri Hambaryan**

Major: *Food and Resource Economics*

Dissertation: Examining the Role of Information in Shaping Consumer Preferences

Dissertation Chair: John Lai

Dissertation Co-chair: Bachir Kassas

**Casey Shannon Harris**

Major: *Soil, Water, and Ecosystem Sciences—Hydrologic Sciences*

Dissertation: Long-Term Water Quality and Future Projections for the Hillsborough and Alafia Rivers

Dissertation Chair: AJ Reisinger

Dissertation Co-chair: Wendy D. Graham

**Katharine Taylor Harris-Walls**

Major: *Educational Leadership—Educational Policy*

Dissertation: Quantifying Science Capital: A Systematic Review and Comparative Analysis Across Demographics

Dissertation Chair: Chris Curran

**Mohammad Mahmood Hasan**

Major: *Microbiology and Cell Science*

Dissertation: Genetic and Epigenetic Effects of Transposable Elements on Meiotic Recombination in Maize (*Zea mays* L.)

Dissertation Chair: Meixia Zhao

**Theresa Christine Hauge**

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: Behavioral and Electrocortical Dynamics of Interactive Virtual Game Play

Dissertation Chair: Rachael Seidler

**Daniella Cristina Heredia Castaneda**

Major: *Animal Sciences—Reproductive Biotechnology*

Dissertation: Rumen Protected Methionine Supplementation During the Periconceptual Period in Beef Cattle: Impacts in Postnatal Development and Offspring Performance

Dissertation Chair: Angela Maria Gonella Diaza

Dissertation Co-chair: Nicolas DiLorenzo

**Hada Melissa Herring**

Major: *Curriculum and Instruction—Science Education*

Dissertation: Part of the Manateam! Exploring Science Identities and Pro-Environmental Behaviors in Secondary Multilingual Latine Learners in a Situated Manatee Curriculum

Dissertation Chair: Julie C. Brown

**Brian Ho**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Fat-Free Mass Index and Its Predictive Role in Cognitive Change Across the Lifespan: A Comprehensive Analysis

Dissertation Chair: Ronald A. Cohen

Dissertation Co-chair: Joseph M. Gullett

**Li-Yin Hsiao**

Major: *Chemical Engineering*

Dissertation: IrO<sub>2</sub>-Based Oxide Catalysts in Methane Oxidation Reactions

Dissertation Chair: Helena E. Hagelin-Weaver

**Jingzhou Hu**

Major: *Computer Science*

Dissertation: A Unified View for Identifiable Latent Representation Learning via Matrix Volume Optimization

Dissertation Chair: Kejun Huang

**Peijie Hu**

Major: *Chemistry*

Dissertation: Reactivity Study and Investigation of Active Sites of Supported Group IV Metal Complexes

Dissertation Chair: Keith Searles

**Junjun Huan**

Major: *Electrical and Computer Engineering*

Dissertation: Multimodal Wearable Systems for Closed-Loop Neuromodulation and Physiological Monitoring

Dissertation Chair: Swarup Bhunia

**Miao Huang**

Major: *Mechanical Engineering*

Dissertation: Cancer Mechanobiology: Manipulating and Recording the Mechanical Forces in Nucleus and Cell to Inhibit Drug-Resistance

Dissertation Chair: Xin Tang

**Caroline Huguenin Amador**

Major: *Geography*

Dissertation: Hydroclimatic Extremes, Drivers of Climate Variability and Agricultural Vulnerability in the Tempisque-Bebadero Basin, Costa Rica

Dissertation Chair: Katherine Serafin

**Noura Khalid Omer Ibrahim**

Major: *Mass Communication*

Dissertation: Algorithmic Bias in Instagram Advertising: A Sociotechnical Study of Ad Delivery, Targeting and Perceived Fairness

Dissertation Chair: Kasey Farris Windels

**Mirajul Islam**

Major: *Statistics*

Dissertation: Bayesian Approaches for Complex Problems in Joint Models

Dissertation Chair: Michael Joseph Daniels

**Eissa Ahmad Jafari**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Effect of Hypertension Control on Alzheimer's Disease and Related Dementias

Dissertation Chair: Caitrin W. McDonough

**Joanna Jaramillo-Silva**

Major: *Entomology and Nematology*

Dissertation: Interactions Between Water Availability and Plant Origin on Floral Traits and Rewards, Pollinator Recruitment, and Pollinator Foraging Behavior

Dissertation Chair: Rachel Mallinger

**Aruna Sri Kumara Jayasena Ranhotige**

Major: *Computer Engineering*

Dissertation: Hardware-Firmware Security Co-Verification

Dissertation Chair: Prabhat Mishra

**Xu Jin**

Major: *Design, Construction and Planning—Interior Design*

Dissertation: Exploring Integrative Lighting's Effect on Psychophysiological Response and Cognition: An Immersive Virtual Environment

Dissertation Chair: Nam-Kyu Park

Dissertation Co-chair: Luis Mejia-Puig

**Reece Thomas Johnson**

Major: *Chemistry*

Dissertation: Surface-Supported Heterogeneous Niobium Catalysts for Hydrocarbon Transformations

Dissertation Chair: Keith Searles

**Jaewoong Joo**

Major: *Statistics*

Dissertation: Random Effects Meta-Analysis When the Studies Use Multiple Regression Models With Different Sets of Covariates

Dissertation Chair: John Doss

Dissertation Co-chair: Bikram Karmakar

**Patricia Maria Jordan**

Major: *Agricultural Education and Communication*

Dissertation: Advancing Leadership: A Case Study on Mentorship and Career Trajectories of Black Women in Agricultural and Natural Science at a Land-Grant University

Dissertation Chair: Pablo Lamino

Dissertation Co-chair: Nicole L.P. Stedman

**Ezequiel Juarez Garcia**

Major: *Electrical and Computer Engineering*

Dissertation: System-Wide Uncertainty Quantification and Information Fusion Using Interpretable Machine Learning

Dissertation Chair: Nicholas Napoli

**Antonio Diego Alejandro Juárez-Sánchez**

Major: *Wildlife Ecology and Conservation*

Dissertation: A Non-Native Consumer and Its Interactions With Native Predators: The South American Armored Catfish (*Pterygoplichthys* sp.) in Northern Guatemala

Dissertation Chair: Christina M. Romagosa

**Bana Ahmad Kabalan**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Investigating the Drivers and Ecological Impacts of Intraspecific Behavioral Trait Variation

Dissertation Chair: Lindsey Reisinger

**Caio Kalil Lauand**

Major: *Electrical and Computer Engineering*

Dissertation: The Curse of Memory in Stochastic Approximation and How to Break It

Dissertation Chair: Sean Meyn

**Krishnaprasad Kalivelampatti Arumugam**

Major: *Mechanical Engineering*

Dissertation: A Fluid Mechanics-Informed Statistical Framework for Assessing Indoor Airborne Viral Transmission

Dissertation Chair: Sivaramakrishnan Balachandar

**Farshad Kamalinejad**

Major: *Physics*

Dissertation: Constraining Cosmology With Higher-Order Summary Statistics of Galaxies: A Bispectrum & 3PCF Study and Application to DESI DR1

Dissertation Chair: Richard P. Woodard

**Yiyang Kang**

Major: *Interdisciplinary Ecology—Environmental Engineering Sciences*

Dissertation: Processes and Impacts of Mangrove Poleward Expansion Across Florida's Gulf of Mexico Coast

Dissertation Chair: David Andrew Kaplan

**Callahan Katrak**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: *S. mutans* and *C. albicans* Mutualism in Adhesion and Stress Tolerance

Dissertation Chair: Jacqueline Abranches

**Muhammed Kawser Ahmed**

Major: *Electrical and Computer Engineering*

Dissertation: Reconfigurable Multi-Tenancy: A Novel Physical Isolation Technique for Multi-Tenant FPGA Security

Dissertation Chair: Christophe Bobda

**Geoffrey Cooke Kellogg**

Major: *Curriculum and Instruction—Languages and Literacies in Education*

Dissertation: *Disciplinary Literacy and the Teaching of Literature*

Dissertation Chair: Zhihui Fang

**Lauren Elizabeth Kenney**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *Brain Drivers, Cognition, and Parkinson's Disease: A Psychometric Approach*

Dissertation Chair: Dawn Bowers

**Hamza Adil Khan**

Major: *Health and Human Performance—Sport Management*

Dissertation: *Sport Event Prestige Conceptualization: Spectator, Participant, and Volunteer Perceptions of Various Sport Event Sizes*

Dissertation Chair: Kyriaki Kaplanidou

**Mohammad Shafkat Mahmud Khan**

Major: *Electrical and Computer Engineering*

Dissertation: *Physical Attack Resilience and Authentication Strategies for Multi-Chiplet Integrated Circuits (IC) With Advanced Packaging*

Dissertation Chair: Navid Asadi Zanjani

Dissertation Co-chair: Mark Tehranipoor

**David Kiiza**

Major: *Veterinary Medical Sciences*

Dissertation: *Epidemiologic and Economic Assessments of Brucellosis in the Cattle Population in Rwanda*

Dissertation Chair: Jorge Antonio Hernandez

**Da-Young Kim**

Major: *Agronomy—Global Systems Agroecology*

Dissertation: *Moving Toward Sustainable Peanut Production: Weather-Driven Prediction Modeling for Pre-Harvest Aflatoxin Risk*

Dissertation Chair: Zachary Thomas Brym

Dissertation Co-chair: Barry Tillman

**Hyun Dong Kim**

Major: *Coastal and Oceanographic Engineering*

Dissertation: *Fluid-Structure Interactions of Submerged Aquatic Vegetation in Coastal System: Integrating Steady and Oscillatory Flow Dynamics*

Dissertation Chair: Xiao Yu

Dissertation Co-chair: David Andrew Kaplan

**Seo Young Kim**

Major: *Research and Evaluation Methodology*

Dissertation: *Concept Tagging to the Pre-Existing Multiple-Choice Questions for Formative Assessment*

Dissertation Chair: David Miller

**Kirsten Gabrielle Klein**

Major: *Counseling Psychology*

Dissertation: *Associations of Perceived Provider Racism and Cultural Sensitivity With Cancer-Related Healthcare Utilization and Healthcare Satisfaction Among Black Women at Risk for Cancer*

Dissertation Chair: Martin Heesacker

**Patrick Mitchell Kmiecik**

Major: *Business Administration—Accounting*

Dissertation: *The Cost of Controversy: Negative Publicity and Auditor Salaries*

Dissertation Chair: W. Robert Knechel

**Rahul Koottanil Haridasan**

Major: *Chemistry*

Dissertation: *Rational Design of Surface-Immobilized Catalysts and Bimetallic Bis-Dipyrrromethane Complexes*

Dissertation Chair: Keith Searles



**Nicole Kragt**

Major: *Chemical Engineering*

Dissertation: Theoretical Investigation of Model Compound Reactivity for Extrapolation to More Complex Systems in Heterogeneous Catalysis

Dissertation Chair: Helena E. Hagelin-Weaver

**Nicholas Mason Kroeger**

Major: *Computer Science*

Dissertation: Advancing AI Interpretability: LLM-Driven Explanations and Layer-Wise Cluster Paths

Dissertation Chair: Vincent Bindschaedler

**Deep Kundu**

Major: *Mathematics*

Dissertation: Minimum Number of Critical Points and Lusternik-Schnirelmann Category

Dissertation Chair: Alexander Dranishnikov



**Michelle Anne Kuntz**

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: A Pharmacokinetic and Pharmacodynamic Evaluation of *In Utero* Kratom Exposure in Rats: Implications for Fetal and Maternal Health

Dissertation Chair: Christopher R. McCurdy

Dissertation Co-chair: Abhisheak Sharma

**Sudip Kunwar**

Major: *Plant Breeding*

Dissertation: Optimizing Biomass Partitioning in Wheat Using Genomics, Phenomics, and Machine Learning

Dissertation Chair: Md Ali Babar

Dissertation Co-chair: Yiannis Ampatzidis

**Larissa C. Laforest**

Major: *Plant Molecular and Cellular Biology*

Dissertation: From Code to Chemistry: A Systems Biology Approach to Monoterpene Indole Alkaloid Pathway Discovery in *Mitragyna*

Dissertation Chair: Satya Swathi Nadakuduti

**Kailey Grace Langer**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Circulating Inflammatory Markers, Cognitive Performance, and Measures of Brain Structure in Two Distinct Cohorts: Healthy Aging and Midlife Obesity

Dissertation Chair: Ronald A. Cohen

Dissertation Co-chair: Adam J. Woods

**Rachel Willow Laue**

Major: *History*

Dissertation: “Good Lady Missionaries”: Presbyterian Women in Canada’s Indian Residential Schools, 1885–1925

Dissertation Chair: Jessica Leigh Harland-Jacobs

**Hannah Ashley Lavoie**

Major: *Health and Human Performance—Health Behavior*

Dissertation: A Social Media-Based Physical Activity Intervention on Instagram for the Promotion of Aerobic and Muscle-Strengthening Activities Among Female College Students

Dissertation Chair: Danielle Jake-Schoffman

**Leo Hei Law**

Major: *Physics*

Dissertation: From Trait Structures to Color Patterns: Computational Approaches to Phenotypic Diversity and Adaptation

Dissertation Chair: BingKan Xue

**Seth Michael Layton**

Major: *Computer Science*

Dissertation: Detection of Synthetic and AI-Generated Content: Methods, Datasets, and Real-World Applicability

Dissertation Chair: Patrick Traynor

Dissertation Co-chair: Vincent Bindschaedler

**Dogil Lee**

Major: *Agricultural and Biological Engineering—Hydrologic Sciences*

Dissertation: Water Availability and Quality in the Upper Floridan Aquifer: Impacts of Agricultural Practices, Climate, and Land Use

Dissertation Chair: Wendy D. Graham

**Jaehyeon Lee**

Major: *Soil, Water, and Ecosystem Sciences—Hydrologic Sciences*

Dissertation: Effects of Climate Seasonality on River Flows, Water Quality, and Lakes

Dissertation Chair: James W. Jawitz

**Andres Esteban Leon Reyes**

Major: *Forest Resources and Conservation*

Dissertation: Bird Photography’s Rise on Social Media: Motivations and Factors Shaping the Birders’ Community

Dissertation Chair: Taylor Verne Stein



**Kandysee Makeda Theodorine Leonard**

Major: *School Psychology*

Dissertation: Out of Sight, Out of Mind: An Endarkened Mapping of Blackgirls' Belonging in an Alternative School

Dissertation Chair: Christopher James Anthony

Dissertation Co-chair: Erica D. McCray

**Eli S. Levit**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Diversification of Complex Indole Alkaloid Scaffolds via Ring Cleavage, Fusion, and Expansion

Dissertation Chair: Robert W. Huigens III

**Motomori Oluwatumininu Lewis**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Geographic Variation Patterns of Quality Measures for Prescription Opioid Use and Treatment of Opioid Use Disorder Among Medicare Beneficiaries

Dissertation Chair: Wei-Hsuan "Jenny" Lo-Ciganic

**Qian Li**

Major: *Medical Sciences—Biomedical Informatics*

Dissertation: Optimizing Cancer Trial Eligibility Criteria Using Real-World Data

Dissertation Chair: Yi Guo

**Shuhan Li**

Major: *Food Science*

Dissertation: The Roles of Urine Metabolome and Gut Microbiome in the Differential Responses of UTI Susceptible Women to Cranberry Juice Intake

Dissertation Chair: Liwei Gu

**Xiao Li**

Major: *Computer Science*

Dissertation: Foundational and Generative Machine Learning Methods for Error-Bounded Scientific Data Reduction

Dissertation Chair: Sanjay Ranka

Dissertation Co-chair: Anand Rangarajan

**Karen Marie Libby**

Major: *English*

Dissertation: Literary Community Building: Twentieth-Century Alternative Publishing

Dissertation Chair: Margaret Galvan

**Guanfu Liu**

Major: *Agricultural and Biological Engineering*

Dissertation: Alcohol-Assisted Low-Temperature Methanol Synthesis From Synthesis Gas

Dissertation Chair: Bruce Ari Welt

**Jiahui Liu**

Major: *Chemistry*

Dissertation: The Influence of Solvent on Layered Vanadium Phosphate Dihydrate as Host During Redox and Non-Redox Intercalation Reactions

Dissertation Chair: Daniel R. Talham

**Jianhui Liu**

Major: *Food and Resource Economics*

Dissertation: Three Essays on Consumer Decision-Making Under Experimental Treatments: Environmental Cues, Food Labeling, and Physiological States

Dissertation Chair: Bachir Kassas

Dissertation Co-chair: John Lai

**Jinxiu Liu**

Major: *Special Education—Early Childhood Studies*

Dissertation: Parents' Practices and Perceptions of Shared Book Reading With Chinese-English Dual Language Learners With Disabilities: A Mixed Methods Study

Dissertation Chair: Melinda Leko

**Qianchen Liu**

Major: *Chemistry*

Dissertation: Computer-Aided Peptide Design Towards Targeted Proteins for Targeted Immunotherapy

Dissertation Chair: Alberto Perez

**Wen Liu**

Major: *Food and Resource Economics*

Dissertation: Three Essays on Agricultural Labor Economics: Policy, Risk, and Labor Supply

Dissertation Chair: Gulcan Onel

Dissertation Co-chair: Jaclyn Donna Kropp

**Yanghe Liu**

Major: *Design, Construction and Planning—Urban and Regional Planning*

Dissertation: Assessing Public Acceptance and Street Suitability for Autonomous Bus Transit in Car-Dependent American Communities

Dissertation Chair: Zhong-Ren Peng

**Mallory Jayne Llewellyn**

Major: *Veterinary Medical Sciences—Toxicology*

Dissertation: Quantification of Emerging Environmental Contaminants and Investigation of Their Developmental and Lifespan Health Effects

Dissertation Chair: Tracie R. Baker

**Gabriel M. Lockett**

Major: *Counseling Psychology*

Dissertation: Experiences of Gender Euphoria Among Black, Afro-Diasporic, Transgender, Non-Binary, Gender Diverse, Adults

Dissertation Chair: Roberto L. Abreu



**Hansika Madushan Weerasena Loku Kattadige**

Major: *Computer Science*

Dissertation: Securing On-Chip Communication Using Machine Learning

Dissertation Chair: Prabhat Mishra

**Maria Camila Lopez Duarte**

Major: *Animal Sciences—Reproductive Biotechnology*

Dissertation: Cell-Free DNA and Extracellular Vesicles as Indicators of Reproductive Status in Beef Cows

Dissertation Chair: Angela Maria Gonella Diaz

Dissertation Co-chair: Mario Binelli

**Jean D. Louis**

Major: *Computer Science*

Dissertation: Unfair Size Advantage: Exploring Quantize Facial Recognition Models' Impact on Class Accuracy

Dissertation Chair: Juan E. Gilbert

**Kaifa Lu**

Major: *Design, Construction and Planning—Urban and Regional Planning*

Dissertation: AI-Driven Approach to Optimize and Automate Shared Micromobility System Planning and Operation

Dissertation Chair: Zhong-Ren Peng

**Fuyan Ma**

Major: *Chemistry*

Dissertation: Precision Synthesis of Semiconductor Nanoclusters via Cation Exchange

Dissertation Chair: Chenjie Zeng

**Haodi Ma**

Major: *Computer Science*

Dissertation: Question Answering Over Multimodal Data With Neuro-Symbolic Reasoning

Dissertation Chair: Zhe Wang

**Arun M. Madhu**

Major: *Physics*

Dissertation: Search for the Lepton Flavor Violating Neutrinoless Decay of Tau Lepton to Three Muons in Proton-Proton Collisions at LHC

Dissertation Chair: Andrey Korytov

Dissertation Co-chair: Yuta Takahashi

**Bailey Matthew Magers**

Major: *Environmental Engineering Sciences*

Dissertation: Using Earth Observations to Understand Environmental Indicators of Disease, Develop Predictive Intelligence, and Ensure Human Health Security

Dissertation Chair: Antarpreet Singh Jutla

**Ernest Chukwunyere Makata**

Major: *Mass Communication*

Dissertation: Platform Regulations and Information Shaping: A Transnational Comparative Analysis of the Models, Hegemons and Global Policies Shaping Content on Social Media Platforms

Dissertation Chair: Seungahn Nah

Dissertation Co-chair: Rachel L. Grant

**Noel Manirakiza**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Examining Carbon Farming Practices to Address Soil Sustainability in the Everglades Agricultural Area, South Florida

Dissertation Chair: Jehangir Bhadha

Dissertation Co-chair: Yang Lin

**Francisco Marchi**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Epigenomic Diagnosis and Prognosis of Acute Myeloid Leukemia

Dissertation Chair: Jatinder Lamba

**Sam Andrew Markelon**

Major: *Computer Science*

Dissertation: Data Structures in Adversarial Environments

Dissertation Chair: Vincent Bindschaedler

**Natalie Martinez**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Defining Key Histological and Genetic Features of Malignancies Associated With Murine

Gammaherpesvirus Infection

Dissertation Chair: Scott Tibbetts

**Amit Mazumder Shuvo**

Major: *Electrical and Computer Engineering*

Dissertation: Enhancing System Security Through Fault-Injection Attack Assessment: From System-on-Chips (SoCs) to System-in-Packages (SiPs)

Dissertation Chair: Mark Tehranipoor

**Ryan J. McCarty**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Longitudinal Assessment of Adolescent Mental Illness Self-Stigma following Treatment Onset

Dissertation Chair: David M. Janicke

**Brenden Martin Mears**

Major: *Electrical and Computer Engineering*

Dissertation: Printed Polymer Composites for Millimeter Wave Electromagnetic Interference Absorption

Dissertation Chair: David P. Arnold

**Maria Laura Mecias**

Major: *Romance Languages—Spanish*

Dissertation: Enhancing Vocabulary Acquisition in Content-Based Language Courses

Dissertation Chair: Gillian Lord

**Miguel Angel Medina-Serpas**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: In Situ Transcriptional Profiling of the Pancreas and Regional Lymph Nodes During Human Type 1 Diabetes

Dissertation Chair: Todd M. Brusko

**Haleh Mehdipour**

Major: *Design, Construction and Planning—Construction Management*

Dissertation: Temporal and Spatial Interaction of Housing and Respiratory Health, Case Study: Health Zone 1 Communities in Jacksonville

Dissertation Chair: Jason Kyle von Meding

**Jeannette Mejia**

Major: *Counseling Psychology*

Dissertation: When You Are Always Already Mad: An Archival of Black Fat's Endarkened Stories of the Mental Health Industrial Complex

Dissertation Chair: Roberto L. Abreu

**Alysha Lynn Michaelson**

Major: *Medical Sciences—Neuroscience*

Dissertation: Improving Therapeutic Approaches to Restore Respiratory Function After Cervical Spinal Cord Injury

Dissertation Chair: Gordon S. Mitchell

**Bradley Joseph Minotti**

Major: *School Psychology*

Dissertation: Examining School Psychologists' Involvement in Transition Planning for Students With Specific Learning Disabilities and Emotional Behavioral Disabilities

Dissertation Chair: Kathrin Maki



**Tanmaya Mishra**

Major: *Physics*

Dissertation: Searches for Intermediate Mass Black Holes With LIGO

Dissertation Chair: Sergey Klimenko

**Claudia Catherine Mitchell**

Major: *English*

Dissertation: Rhetorics of Recovery: Writing About Addiction in the Public Sphere

Dissertation Chair: Laura Gonzales



**Animesh Mitra**

Major: *Statistics*

Dissertation: Beyond Unconfoundedness: Estimating Heterogeneous Treatment Effects Using Bayesian Nonparametric and Neural Network Methods

Dissertation Chair: Bikram Karmakar

Dissertation Co-chair: Michael Joseph Daniels

**Nurun Nahar Mondol**

Major: *Electrical and Computer Engineering*

Dissertation: Leveraging the Power of AI for Integrated Circuit Security

Dissertation Chair: Mark Tehranipoor

**Angela Monk**

Major: *Nursing Sciences*

Dissertation: My Pumping Pathways: Development, Implementation, and Evaluation of an Individualized Lactation Support Intervention for Mothers of Preterm and Critically Ill Infants

Dissertation Chair: Leslie Ann Parker

**Myra Antoinette Monreal**

Major: *Civil Engineering*

Dissertation: Navigating Blind Spots: Data and Methodological Limitations in Safety Assessment of Emerging Transportation Modes

Dissertation Chair: Siva Srinivasan

**Juan Manuel Montealegre Echeverri**

Major: *Agricultural Education and Communication*

Dissertation: A Needs Assessment of Teaching Competencies in Agricultural, Food, and Natural Resource Higher Education: An Exploratory Sequential Mixed Methods Study at the University of Florida's College of Agricultural and Life Sciences

Dissertation Chair: Grady Roberts

**Manuel Antonio Morales Mite**

Major: *Wildlife Ecology and Conservation*

Dissertation: The Galapagos Grouper (*Mycteroperca olfax*) Social-Ecological System: Guidelines for Conservation and Management

Dissertation Chair: Nia Morales

Dissertation Co-chair: Steve A. Johnson

**Timothy Kedric Mueller**

Major: *Civil Engineering*

Dissertation: Advanced Non-Destructive Testing Techniques and Applications for Railroad Components and Structures

Dissertation Chair: Christopher C. Ferraro

Dissertation Co-chair: Jennifer Anne Bridge

**Marisa Eleanor Mulvey**

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: The Role of Cognition on the Interplay Between Gaze and Gait

Dissertation Chair: Julia Choi

**Ian Andrew Murphy**

Major: *Biostatistics*

Dissertation: Novel Statistical Methods to Integrate Viral Sequence Data and Disease Surveillance Data to Infer Pathogen Transmission Dynamics

Dissertation Chair: Matt Hitchings

**Spencer Gregory Norman Murphy**

Major: *Counseling and Counselor Education—Mental Health Counseling*

Dissertation: The Culmination of Advocacy: An Exploration of Corrections Counselors' Perspectives on Client Advocacy and Liberation Frameworks

Dissertation Chair: Sondra Lori Smith



**Thomas Herman Murphy**

Major: *Botany*

Dissertation: Unveiling Complexities in New World *Smilax* and Assembling the Bigger Picture of Liliales

Dissertation Chair: Lucas Charles Majure

**Asinamai Medugu Ndai**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Prescribing Practices and the Use of High-Risk Medications in Older Adults With Atrial Fibrillation

Dissertation Chair: Steven M. Smith

**Ovidiu Nechita**

Major: *Mathematics*

Dissertation: Hybrid Continuous and Discrete Methods for the Vertex Separator Problem

Dissertation Chair: William Ward Hager

**Mariana Nehme Marinho**

Major: *Animal Sciences—Animal Molecular and Cellular Biology*

Dissertation: Assessing Feed Efficiency in Dairy Cows

Dissertation Chair: José Eduardo Santos

**Jamie Newland**

Major: *Psychology*

Dissertation: Parent-Infant Reciprocity and Joint Attention During Shared Book Reading and Language Outcomes

Dissertation Chair: Lisa S. Scott

**Daniela Nunez de Alvarez Stransky**

Major: *Romance Languages—Spanish*

Dissertation: Using Social Network Analysis to Examine the Dynamic Changes in Returnee's Spanish Grammar

Dissertation Chair: Jorge Rodrigo Valdés Kroff

Dissertation Co-chair: Diego Pascual y Cabo

**Alana Pimenta O'Brien**

Major: *Medical Sciences—Genetics*

Dissertation: Leveraging Post-Transcriptional Mechanisms to Regulate Gene Therapy

Dissertation Chair: Eric Wang

**Kenneth Tembe Oduor**

Major: *Agronomy*

Dissertation: Strategies to Reduce Cactus *Opuntia stricta* Invasion in Kenya and Add Value to Local Communities

Dissertation Chair: Jose Carlos Dubeux Jr.

**Jack Robert Orces**

Major: *Classical Studies*

Dissertation: Hades as a God - Origins and Inspirations From a Mythic Perspective

Dissertation Chair: Flora Iff-Noël

**Nicholas John Orlando**

Major: *English*

Dissertation: Cinema's Violent Encounters: Or, How We Learned to Stop Worrying About Fascism and Have Some Fun

Dissertation Chair: Phillip E. Wegner

**Joshua Henry Owens**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Social Determinants of Health, Race/Ethnicity, and White Matter Hyperintensities

Dissertation Chair: Michael Marsiske

**Dominick C. Padilla**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Root-Knot Nematode Resistance in Pepper: Inheritance, Loci Mapping, and Cultivar Development

Dissertation Chair: Bala Rathinasabapathi

**Ramón Francisco Padín Monroig**

Major: *Materials Science and Engineering*

Dissertation: Thermodynamic and Kinetic Evaluation of Iron-Carbon Alloys in High Magnetic Fields for Thermomagnetic Processing

Dissertation Chair: Michael Tonks

**Alicia Beth Pardon**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: An Examination of the Association Between Adverse Childhood Experiences, Stressful Life Events, Psychological Symptoms, and Glycemia Among Emerging Adults With Type 1 Diabetes

Dissertation Chair: Kimberly Ann Driscoll

**Cheolwoo Park**

Major: *Counseling and Counselor Education*

Dissertation: Counselor Educators' Multicultural and Social Justice Counseling Competencies and Counselor Trainees' Multicultural Counseling Self Efficacy: The Mediating Role of Secure Attachment Relationship Between Counselor Educators and Trainees

Dissertation Chair: Glenn E. Good

**Jinhan Park**

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: Neural Oscillations Underlying Pain Processing in Autistic Adults

Dissertation Chair: Stephen Andrew Coombes

**Jon Anderson Parker**

Major: *Youth Development and Family Sciences*

Dissertation: Exploring Willingness to Participate in Nature-Based Interventions Among Underrepresented Adults

Dissertation Chair: Heidi L. Radunovich

**Giavanna Isabella Paterno**

Major: *Medical Sciences—Neuroscience*

Dissertation: Investigations of Tau Protein Distribution, Phosphorylation, and Aggregation in Neurodegenerative Disease Pathogenesis

Dissertation Chair: Benoit Giasson

**Isaac Keifer Payton**

Major: *Nursing Sciences*

Dissertation: A Hard Pill to Swallow: Psychosocial Distress, Structural and Social Determinants of Health, and Antiretroviral Adherence Among Men Who Have Sex With Men with HIV Living in Florida

Dissertation Chair: Debra Lyon

**Jesus David Penaloza Aponte**

Major: *Medical Sciences—Neuroscience*

Dissertation: Diaphragm Electromyography Recording and Analysis in Rats: From Fine-Wire Electrode to High-Density Array Motor Unit Characterization

Dissertation Chair: Erica Arden Dale

**Daniel W. Pérez Ramos**

Major: *Entomology and Nematology*

Dissertation: Extrinsic and Intrinsic Factors That Shape the Microbial Composition of Central East Florida Mosquitoes

Dissertation Chair: Eric Caragata

**Noe Corentin Perron**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Uncovering the Regulatory Blueprint of the C<sub>3</sub>-to-CAM Transition in the Ice Plant

Dissertation Chair: Matias Kirst

**Alexandra Marie Peterson**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Characterization of the Novel Zinc Export Regulator, ZccR, and Its Regulon in *Streptococcus mutans*

Dissertation Chair: José A. Lemos

**Tam Hoan Dan Pham**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Discovery, Total Synthesis, and Biological Evaluation of Specialized Metabolites From Marine Cyanobacteria

Dissertation Chair: Hendrik Luesch

**Wallace Nascimento Pinto Jr.**

Major: *Research and Evaluation Methodology*

Dissertation: A Comparison of Feature Attribution Methods to Explain the Predictions of Transformer-Based Automated Scoring Systems

Dissertation Chair: Jinnie Shin

**Nikolaos Pipis**

Major: *Biomedical Engineering*

Dissertation: Nucleic Acid-Collagen Complexes as Tunable Instructive Scaffolds: From Structure-Property Insights to Angiogenic Hydrogels and Broader Tissue-Specific Potential

Dissertation Chair: Josephine Allen

**Mousami Poudel**

Major: *Plant Pathology*

Dissertation: Exploring *Xanthomonas* and *Herbaspirillum* Taxonomy, Conventional and Genome-Edited Resistance to Bacterial Spot in Tomato and Pepper, and TAL Effector Dynamics

Dissertation Chair: Jeffrey B. Jones

**Shokoufeh Pourshahabi**

Major: *Agricultural and Biological Engineering*

Dissertation: Quantifying Economic Vulnerabilities Induced by Interdependent Networks

Dissertation Chair: Rachata Muneeppeerakul

**Barclay Blount Powell**

Major: *Animal Sciences—Domestic Animal Genomics*

Dissertation: Preliminary Genetic Analysis of Traits Under Selection for Behavior and Morphological Variation in the Horse

Dissertation Chair: Samantha Brooks

**Fatima Ramis**

Major: *Wildlife Ecology and Conservation*

Dissertation: Conservation in Context: A Multilevel Analysis of Institutional and Community Alignment for Shared Seascapes With the Greater Caribbean Manatee

Dissertation Chair: Nia Morales

Dissertation Co-chair: Matthew Thomas Hallett

**Darius Ramkhalawan**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Investigating the Genetic Basis of Adolescent Idiopathic Scoliosis

Dissertation Chair: Nadja Makki

**Saurabh Ranjan**

Major: *Psychology*

Dissertation: Reality Monitoring in Humans and Artificial Intelligence: A Behavioural and Computational Perspective on False Memories

Dissertation Chair: Brian Odegaard

**Adrianna Marta Ratajska**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Cognition in Essential Tremor: A Neuroimaging and Biomarker Study

Dissertation Chair: Dawn Bowers

**Rebekah Grace Raulerson**

Major: *Agricultural Education and Communication*

Dissertation: Undergraduate Students' Perceptions of Participation in High Impact Experiences

Dissertation Chair: Lisa Lundy

**Zachary T. Ray**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Organic Celery Production and Plant Nitrogen Dynamics as Affected by Cultural and Nutrient Management Practices

Dissertation Chair: Xin Zhao

**Sarah Lynn Leilehua Redding**

Major: *Geology*

Dissertation: Instructor Expectations vs. Student Readiness: Identifying a Missing Puzzle Piece to Geoscience Student Success

Dissertation Chair: Anita Marshall

**Morgan Elizabeth Reeves**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Investigating CXCR6 Signaling in Hepatocellular Carcinoma as an Underlying Mechanism of Sorafenib Resistance

Dissertation Chair: Siobhan Malany

**Marlon Antonio Retana Cordero**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Phosphorus Nutrition in Blueberry: Physiological, Morphological, Phenological, and Yield Responses

Dissertation Chair: Gerardo Nunez

**Gabriela Jamir Reyes**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Mangroves in Anthropocene: Evaluating Human and Urban Impacts on Mangrove Structure and Function

Dissertation Chair: Ashley R. Smyth

Dissertation Co-chair: Laura Reynolds

**Kelly Briana Richardson**

Major: *Political Science*

Dissertation: Empowered or Alienated: An Exploration of the Life-Cycle of Black Empowerment

Dissertation Chair: Sharon D. Austin



**Mayra Araceli Rivas Acosta**

Major: *Interdisciplinary Ecology—Food and Resource Economics*

Dissertation: The Cost of Reducing Stunting in Children: A Process, Impact, and Cost-Effectiveness Analysis of a Livestock Transfer Program in Guatemala With Global Comparisons

Dissertation Chair: Conner Codling Mullally

**Arianna Donatella Rivera**

Major: *Materials Science and Engineering*

Dissertation: Investigation of Novel In-Situ Native Oxide Clean Pre-Treatment on Point Defect Population in Ultra-Shallow Ion-Implanted Silicon

Dissertation Chair: Kevin S. Jones

**Anna G. Rodell**

Major: *Curriculum and Instruction*

Dissertation: Learning to Be (In) Community: Oral Histories of a Colonia in the Texas Borderlands

Dissertation Chair: Chonika Coleman-King

**Masroor Sagheer**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Actions of Methyl Donors During the Preimplantation Period to Improve Postnatal Phenotype of Offspring

Dissertation Chair: Peter J. Hansen

**Keon Sahebkar**

Major: *Materials Science and Engineering*

Dissertation: Engineering Electrical Properties of Oxygen-Deficient Transition Metal Oxide Films for Emerging Electronics Applications

Dissertation Chair: Honggyu Kim

Dissertation Co-chair: Ryan F. Need

**Nitai Prasad Sahoo**

Major: *Chemistry*

Dissertation: On the Performance of Composite Methods in High-Accuracy Determination of Equilibrium Structures and Excitation Energies

Dissertation Chair: Alberto Perez

**Jacob S. Salminen**

Major: *Biomedical Engineering*

Dissertation: Electrocortical Dynamics of Walking by Younger and Older Adult Humans

Dissertation Chair: Daniel Perry Ferris

**Elham Samami**

Major: *Nursing Sciences*

Dissertation: Health-Promoting Lifestyle Behaviors and Gut Microbiota Diversity in Hematological Cancer Patients Undergoing Hematopoietic Stem Cell Transplantation

Dissertation Chair: Debra Lyon

**Magdalena Maria Samojlik**

Major: *Biomedical Engineering*

Dissertation: Engineering a Three-Dimensional in vitro Hydrogel Platform to Enable the Temporal and High Content Investigation of T Cell Dynamics and Cytotoxic Responses to Pancreatic Beta Cell Targets

Dissertation Chair: Cherie Stabler

**Barbara Caridad Sanchez Perez**

Major: *Sociology*

Dissertation: Digital Natives' Perceptions of and Experiences With Online Privacy and Cyberstalking: A Qualitative Examination

Dissertation Chair: Marian J. Borg

**Karol Melissa Sanchez-Sanchez**

Major: *Microbiology and Cell Science*

Dissertation: Characterization of Glycerol Kinase From *Haloferax volcanii* and the Impact of Lysine Acetylation on Enzyme Regulation

Dissertation Chair: Julie A. Maupin



**Dina Sandoval**

Major: *Linguistics*

Dissertation: Perception of Novel Onset Clusters: Sonority Markedness, Intensity, and Cue Robustness

Dissertation Chair: Caroline Wiltshire

**Sanneri Elibet Santiago Borrés**

Major: *Environmental Engineering Sciences*

Dissertation: Investigating the Impacts of Extreme Weather on PFAS Profiles in Brevard County, FL: A Study Towards Sustainable Remediation in Vulnerable Communities

Dissertation Chair: Katherine Yaritza Deliz Quiñones

**Firmansyah Tri Saputra**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Dairy Production in Developing Countries With Focus on Mastitis and Heat Stress

Dissertation Chair: Corwin Nelson

**Shoumi Sarkar**

Major: *Biostatistics*

Dissertation: Development of Specialized Statistical Techniques for Novel Analyses of Some Public Health Data With Complex Structures

Dissertation Chair: Somnath Datta

Dissertation Co-chair: Peihua Qiu

**Rishabh Sarma**

Major: *Mathematics*

Dissertation: Modular Symmetries for Rank-Type Partition Statistics

Dissertation Chair: Frank Garvan

**Kimber Lee Sarver**

Major: *Youth Development and Family Sciences*

Dissertation: Belonging, Transcendent Awareness, and Societal Contribution in Emerging Adult Volunteers: A Case Study

Dissertation Chair: Kate Fogarty

Dissertation Co-chair: Kimberly Kay Wiley

**Alfredo Bayu Satriya**

Major: *Electrical and Computer Engineering*

Dissertation: Non-Invasive Abdominal Body Composition Measurement Using Hybrid Metasurface and Machine Learning-Enhanced Microwave System

Dissertation Chair: Yong-Kyu Yoon

Dissertation Co-chair: Jenshan Lin

**Charlayne Asha Scarlett**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Coping With Stress and Weight Loss: Examining the Effects of Mindfulness and Alcohol Use on Chronic Stress and BMI Among Black Women

Dissertation Chair: Kimberly Ann Driscoll

**William James Schap III**

Major: *Astronomy*

Dissertation: The Effect of Birth Environment on the Formation and Detection of Exoplanets and Astrobiological Life

Dissertation Chair: Elizabeth Anne Lada

**Brittany Jalene Scharf**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Integrating Physiology, Environment, and Behavior to Understand Snook Range Expansion

Dissertation Chair: Jeffrey Eugene Hill

**John Logan Schell**

Major: *English*

Dissertation: An Art of Tensions: Identity and Ideology in the Voice of the American Superhero

Dissertation Chair: Anastasia Maria Ulanowicz

**Monica D. Schul**

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: The Microbial Hitchhikers Guide to the Coral Reef: Expanding the Coral Metaorganism Concept

Dissertation Chair: Julie Meyer

**Adam Searles**

Major: *Interdisciplinary Ecology—Statistics*

Dissertation: Effects of Changing Foundation Species on Fauna Communities and Food Webs

Dissertation Chair: Charles Martin

Dissertation Co-chair: Laura Reynolds

**Vijaya Lakshmi Seegulam**

Major: *Epidemiology*

Dissertation: Cannabis Use and Use Disorder Among Middle-Aged and Older Adults: Integrating Survey and Electronic Health Record Data From the *All of Us* Research Program

Dissertation Chair: Linda B. Cottler

**Edward Seh-Taylor**

Major: *Anthropology*

Dissertation: A Mixed Methods Investigation of Community Engagement in Translational Research: The University of Florida-Florida State University Clinical and Translational Science Award

Dissertation Chair: Christopher McCarty

**Sangwoo Seok**

Major: *Entomology and Nematology*

Dissertation: Population Genomics of *Aedes albopictus* in the Pacific Islands and the Prospect of the Local Elimination

Dissertation Chair: Yoosook Lee

**Sarah Elizabeth Ser**

Major: *Epidemiology—Data Sciences Epidemiology*

Dissertation: Identifying and Predicting Hospital-Induced Delirium in Medical-Surgical Patients Using Electronic Health Record Data, Computable Phenotyping, and Causal Machine Learning

Dissertation Chair: Mattia Prosperi

**Samia Shabnaz**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Integrative Omics Analysis of Carfilzomib-Related Cardiovascular Events in Patients With Multiple Myeloma

Dissertation Chair: Yan Gong

**Amandeep Sahil Sharma**

Major: *Agronomy*

Dissertation: Evaluation of Energycane for Bioenergy and Ecosystem Services in Everglades Agricultural Area

Dissertation Chair: Hardev Singh Sandhu

**Bhavna Sharma**

Major: *Sociology*

Dissertation: Doing the Right Thing: Constructing a Prototype for Wise Organizations and Wise Leadership Through a Cross-Cultural, Mixed-Methods Study

Dissertation Chair: Monika Ardelt

**Jingzhu Shi**

Major: *Chemistry*

Dissertation: Nanomaterials-Enhanced Immunoassays for Extracellular Vesicle-Based Cancer Diagnosis

Dissertation Chair: Yong Zeng

**Amanda Eve Shick**

Major: *Mechanical Engineering*

Dissertation: Control-Theoretic Interventions for Coagulopathy in Lung Disease

Dissertation Chair: Amor Menezes

**Kayli Renee Sieber**

Major: *Zoology—Animal Molecular and Cellular Biology*

Dissertation: Decoding Eusociality: Exploring Ant Chemosensation Across Development, Caste, and Species

Dissertation Chair: Hua Yan

**Idalia Alejandra Sierra Augustinus**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Optimizing Management Practices for Florida St. Augustinegrass Lawns

Dissertation Chair: Marco Schiavon

**Zachary Daniel Simon**

Major: *Medical Sciences—Neuroscience*

Dissertation: Amyloid- $\beta$  and Apolipoprotein- $\epsilon$ 4 Differentially Affect Functional Connectivity and Network Topology in Murine Models of Alzheimer's Disease Risk Factors

Dissertation Chair: Marcelo Febo

Dissertation Co-chair: Paramita Chakrabarty

**Renae Smirlis Simonds**

Major: *Special Education*

Dissertation: Is There a Relationship Between Classroom Management Coursework and Preservice Teachers' Self-Efficacy and the Implementation of Classroom Management Strategies?

Dissertation Chair: Melinda Leko

**Manuela Sinisterra**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Understanding Caregiver Illness Burden and Support in Management of Cystic Fibrosis in Young and School-Age Children: A Mixed Methods Study

Dissertation Chair: David Fedele

**Amy Lynn Skillicorn**

Major: *Classical Studies*

Dissertation: Resurrection, Judgment, and Punishment in the Works of Paul, Irenaeus, and Tertullian

Dissertation Chair: Konstantinos Kapparis

**Alexis Rose Smith**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Design and Synthesis of Protein Degraders: Targeting METTL3/METTL14 and LANA as Novel Targets for Use in Cancer Therapy

Dissertation Chair: Guangrong Zheng

**Jasmine Alexandria Smith**

Major: *Engineering Education*

Dissertation: The Influence of Self-Awareness and Its Related Dimensions on Engineering Research Mentoring Relationships

Dissertation Chair: Jeremy A. Magruder Waisome

**Jeremy Daniel Smith**

Major: *Nuclear Engineering Sciences*

Dissertation: Nuclear Fuel Performance Modeling: Validation of Rule of Mixtures Uranium Bi-Carbide Fuels and Multi-Physics Coupling of High-Burnup, Light-Water Reactor Loss of Coolant Accidents

Dissertation Chair: Michael Tonks

Dissertation Co-chair: Justin Kyle Watson

**Yukyeong Song**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Designing a Generative AI-Powered Teachable Agent to Engage Varied Middle School Students in Mathematics Learning

Dissertation Chair: Maya Israel

Dissertation Co-chair: Wanli Xing

**Julianna Patience Sostre**

Major: *Counseling Psychology*

Dissertation: The Impact of the Current Sociopolitical Climate on the Well-Being of Trans and Gender Diverse BIPOC Living in Florida

Dissertation Chair: Roberto L. Abreu

**Gerard Vanderzwet Spicer**

Major: *Music—Music History and Literature*

Dissertation: The New York Philharmonic as Cultural Ambassadors: Music, Media, and US Diplomacy in Brazil (1958)

Dissertation Chair: Silvio dos Santos

**Josue St. Fort**

Major: *Interdisciplinary Ecology—Agricultural and Biological Engineering*

Dissertation: Evaluation of Micro-Irrigation for Reducing Water Use During Strawberry Establishment and Frost Protection in Florida

Dissertation Chair: Carlene A. Chase

Dissertation Co-chair: Vivek Sharma

**Daniel L. Stanton**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Outa Time: The Ontogeny of Circadian Clock Gene Expression During Mammalian Development

Dissertation Chair: Peter J. Hansen

Dissertation Co-chair: John Bromfield

**Sarah Ruth Steele Cabrera**

Major: *Interdisciplinary Ecology—Wildlife Ecology and Conservation*

Dissertation: Integrating Ecological and Genomic Data for Butterfly Conservation in South Florida

Dissertation Chair: Jaret C. Daniels

**Skylar E. Stolte**

Major: *Biomedical Engineering*

Dissertation: Deep Learning for Precision Head Segmentation and Modeling

Dissertation Chair: Ruogu Fang

**Cheyenne Ellen Lindley Stratton**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Investigating the Role of Pathogens in Crayfish Invasion Dynamics

Dissertation Chair: Lindsey Reisinger

**Chaoyue Sun**

Major: *Electrical and Computer Engineering*

Dissertation: Advanced Graph Neural Networks for Infectious Disease Dynamics

Dissertation Chair: Ruogu Fang

**Anushka Swarup**

Major: *Electrical and Computer Engineering*

Dissertation: Disambiguating Relation Extraction Across Diverse Domains With Knowledge-Enhanced Large Language Models

Dissertation Chair: Damon Lamar Woodard

**Brendan J. Sweeney**

Major: *Music—Composition*

Dissertation: A Post-Secondary Pedagogical Approach to Music Creation Utilizing a Visual Design Framework

Dissertation Chair: Paul S. Richards

**Tiffany S. Tan**

Major: *Educational Leadership—Educational Policy*

Dissertation: Staying or Leaving: Survival Analysis of Students' Retention Patterns in Teacher Preparation Programs

Dissertation Chair: Christopher Redding

**Peyton Svagerko Teague**

Major: *Veterinary Medical Sciences—Animal Molecular and Cellular Biology*  
Dissertation: Mechanism of Hyperinsulinemia in Horses With Insulin Dysregulation  
Dissertation Chair: Dianne McFarlane

**Dario Andres Teran Acaro**

Major: *Mathematics*  
Dissertation: Flat Morphisms of Adic Spaces  
Dissertation Chair: Richard Malcolm Crew

**Cameron David Thomas**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*  
Dissertation: Identifying and Examining Predictors of P2y<sub>12</sub> Inhibitor Response After Percutaneous Coronary Intervention  
Dissertation Chair: Larisa Humma Cavallari

**Troy Richard Thomas**

Major: *Music Education*  
Dissertation: Steelbands in the United States: A Profile and Comparison of K-12, Collegiate, and Community Ensembles  
Dissertation Chair: William I. Bauer

**Aaron Kolby Thrasher**

Major: *Mathematics*  
Dissertation: Price Inequality and the Growth of Harmonic Functions on Nonpositively Curved Manifolds  
Dissertation Chair: Luca Di Cerbo

**Zimu Tian**

Major: *Chemistry*  
Dissertation: Innovative CRISPR-Based Diagnostic Platforms for Nucleic Acid Biomarker Detection in Disease Diagnosis  
Dissertation Chair: Yong Zeng

**Jessica Rae Tittl**

Major: *Interdisciplinary Ecology—Business Administration*  
Dissertation: The Biotechnical Potential of Marine Bacteria  
Dissertation Chair: Julie Meyer

**Savannah Rose Troy**

Major: *Interdisciplinary Ecology—Wildlife Ecology and Conservation*  
Dissertation: Biodiversity Responses to Changing Ecosystems in Sub-Saharan Africa  
Dissertation Chair: Robert J. Fletcher  
Dissertation Co-chair: Benjamin H. Baiser

**Yekatit Getachew Tsehayu**

Major: *Religion*  
Dissertation: Women in Muslim Revivalist Movement: Yetemarch Ethiopian Muslim From Intersectional Victimhood to Agents of Change  
Dissertation Chair: Terje Østebo

**Tyler Michael Tucker**

Major: *Computer Science*  
Dissertation: Improving Identity Protection Over Wireless Networks Through Protocol Specifications  
Dissertation Chair: Patrick Traynor

**Holly Gabrielle Tumblin**

Major: *Music—Music History and Literature*  
Dissertation: *Tradicional O Sensual*: Sensory Experience, Dance Congresses, and the Sensualization of Bachata  
Dissertation Chair: Silvio dos Santos

**Yogendra Raj Upadhyaya**

Major: *Agronomy*  
Dissertation: Optimizing Cotton Yield and Quality: The Role of Cover Crop Decomposition Dynamics, Nitrogen Management, and Weed Control Strategies  
Dissertation Chair: Hardeep Singh  
Dissertation Co-chair: Michael J. Mulvaney



**Andrea Vasquez Ferreiro**

Major: *Health and Human Performance—Health Behavior*

Dissertation: Understanding Healthcare Provider Openness to Recommending Social Support Resources to Perinatal Women: A Feasibility Study

Dissertation Chair: Mildred M. Maldonado-Molina

Dissertation Co-chair: Nichole M. Scaglione

**Ambar Coral Velazquez-Albino**

Major: *Chemical Engineering*

Dissertation: Advancing Synthesis of Single-Core Iron Oxide Nanoparticles for Use as Magnetic Particle Imaging (MPI) Tracers

Dissertation Chair: Carlos M. Rinaldi-Ramos

**Mauro Venturini**

Major: *Animal Sciences—Reproductive Biotechnology*

Dissertation: Residual Feed Intake in Beef Cattle: Omics Technologies to Identify Biomarkers and Reproductive-Related Traits

Dissertation Chair: Angela Maria Gonella-Diaza

Dissertation Co-chair: Nicolas DiLorenzo

**Ashwani Verma**

Major: *Mechanical Engineering*

Dissertation: Nucleation in Microchannels and Transition From Bubbly to Elongated Bubbles Flow Regime

Dissertation Chair: Saeed Moghaddam

**Mariana Silva Vianna**

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Haplotype-Based Genomic Analysis for Trait Improvement in Sweet Corn

Dissertation Chair: Márcio Fernando R. Resende Jr.

**Michael Joseph Viecei**

Major: *Medical Sciences—Medical Physics*

Dissertation: LET<sub>d</sub> Optimization and DNA Repair Mutations in Pencil Beam Scanning Proton Therapy of Prostate Cancer

Dissertation Chair: Mark E. Artz

**Andrew Arthur Vogel**

Major: *Music—Music History and Literature*

Dissertation: We Do the Ska: Making Place and Meaning in Mexican Ska

Dissertation Chair: Payam Yousefi

**Ben Timothy Vollmer**

Major: *Mass Communication*

Dissertation: Rethinking Social Media Affordances: An Examination of Communal Engagement on Discord

Dissertation Chair: Yu-Hao Lee

**Mitchell John Walters**

Major: *Zoology*

Dissertation: Changes in Avian Acoustic Structure and Behavior Across Environmental Gradients in Florida

Dissertation Chair: Scott K. Robinson

**Bowen Wang**

Major: *Research and Evaluation Methodology*

Dissertation: Gathering Validity Evidence Through Process Data: A Psychometric Approach to Classifying Response Process Heterogeneity in Computer-Based Assessments

Dissertation Chair: Anne Corinne Manley

Dissertation Co-chair: Jinnie Shin

**Hanqiu Wang**

Major: *Electrical and Computer Engineering*

Dissertation: Modeling, Detection, and Experimental Verification for EM-Oriented Hardware and Software Anomaly

Dissertation Chair: Shuo Wang

**Ruixuan Wang**

Major: *Public Health—Health Services Research*

Dissertation: Smoking Cessation After Cancer Diagnosis: Trends, Health Benefits, and Association With Healthcare Utilization and Expenditures

Dissertation Chair: Ara Jo

**Xiaoshan Wang**

Major: *Electrical and Computer Engineering*

Dissertation: Privacy Preservation in Distributed Learning Systems

Dissertation Chair: Tan F. Wong

Dissertation Co-chair: John Mark Shea

**Yipeng Wang**

Major: *Biostatistics*

Dissertation: Novel Statistical Methods for Network Monitoring and Description

Dissertation Chair: Peihua Qiu

**Yitian Wang**

Major: *Biomedical Engineering*

Dissertation: Radiation Dosimetry of Internal Organs for Radiation Emergencies and Radiopharmaceutical Therapy at Both the Macroscale and Microscale Tissue Level

Dissertation Chair: Wesley Emmett Bolch

**Zhishen Wang**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Mapping Human Heparanase-1 Enzymatic Activity With Small Molecule Probes

Dissertation Chair: Lina Cui

**Kevin S. Warren**

Major: *Computer Science*

Dissertation: Securing Humans Against Deepfake Audio

Dissertation Chair: Patrick Traynor

**Alexandra S. Weis**

Major: *Counseling Psychology*

Dissertation: Navigating Political Stressors in the Therapeutic Context: Client Perspectives

Dissertation Chair: Banafsheh Moradi

**Yunjie Wen**

Major: *Chemistry*

Dissertation: Ultrasensitive and High-Throughput Microfluidic Extracellular Vesicle Analysis for Precision Oncology

Dissertation Chair: Yong Zeng

**Sara Elizabeth Wetter-Wren**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: “I Don’t Feel Heard”: Adapting a Measure of Healthcare Discrimination for Adolescents and Emerging Adults With Type 1 Diabetes

Dissertation Chair: Kimberly Ann Driscoll

**Jessica Jennings Williams**

Major: *Special Education*

Dissertation: Professional Development to Practice Exploring General and Special Education Teachers’ Appropriation of Pedagogical Tools for Tiered Literacy Instruction

Dissertation Chair: Mary T. Brownell

**Kimberly Nicole Williams**

Major: *English*

Dissertation: The Hum in the Dark: Sound, Grief, and Blackness During the Pandemics

Dissertation Chair: Laura Gonzales

**Jabari Alexander Wilson**

Major: *Engineering Education*

Dissertation: Shaping Futures: The Influence of CTE Work-Based Learning Program Design on High School Students' Career Aspirations

Dissertation Chair: Jeremy A. Magruder Waisome

**Steven Parrish Winesett Jr.**

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: Testing the Role of Cognition in Walking Through Dual Task Walking and a Novel Obstructed Vision Task in Older Adults

Dissertation Chair: Rachael Seidler

Dissertation Co-chair: David J. Clark

**Emily Haine Winkelman**

Major: *School Psychology*

Dissertation: Reading Between the Items: Using Natural Language Processing to Analyze Social and Emotional Learning Rating Scale Content

Dissertation Chair: Christopher James Anthony

**Elizabeth Rose Wolock**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Patterns of Peer-Related Social Functioning in College Students With Chronic Pain: A Latent Profile Analysis

Dissertation Chair: David M. Janicke

**Breanne Latrice Woods**

Major: *School Psychology*

Dissertation: Examining the Effects of School-Based Police Presence on the Black-White Academic Opportunity Gap

Dissertation Chair: Christopher James Anthony

**Jianli Wu**

Major: *Nursing Sciences*

Dissertation: The Impact of Chronic Pain on Subjective Cognitive Decline (SCD) in Older Adults: Exploring the Mediating and Moderating Roles of Depression and Anxiety

Dissertation Chair: Ann L. Horgas

Dissertation Co-chair: Staja Booker

**Anurag Swarnim Yadav**

Major: *Computer Science*

Dissertation: Addressing Data Leakage and Imbalance for Robust Fine-Tuning of Pre-Trained Code Language Models in Program Repair and Vulnerability Detection

Dissertation Chair: Joseph N. Wilson

**Lei Yang**

Major: *Statistics*

Dissertation: Bayesian Methods for Causal Inference

Dissertation Chair: Michael Joseph Daniels

**Zhechao Yang**

Major: *Business Administration—Information Systems and Operations Management*

Dissertation: Three Essays on Emerging Strategies and Behavioral Dynamics in Contemporary Markets

Dissertation Chair: Amy Pan

Dissertation Co-chair: Liangfei Qiu

**Jiachi Ye**

Major: *Electrical and Computer Engineering*

Dissertation: Orbital Angular Momentum in Free-Space Optical Communication and Computing

Dissertation Chair: Hamed Dalir

Dissertation Co-chair: Elham Heidari

**Simonne Yet Kwong Horman**

Major: *Agricultural Education and Communication*

Dissertation: Perceptions of Leadership Self-Efficacy in Elementary Age Girls From the Viewpoint of Teachers

Dissertation Chair: Nicole L.P. Stedman

**Yohei Yoshinaka**

Major: *Chemistry*

Dissertation: Design of Eco-Friendly and Water-Degradable Polyamides via Weak-Link Strategy

Dissertation Chair: Stephen Albert Miller

**David T. Yu**

Major: *Genetics and Genomics*

Dissertation: Analyzing the Biological Roles and Protein Partners of the *Haloferax volcanii* Proteasome System

Dissertation Chair: Julie A. Maupin

**Honggang Yu**

Major: *Electrical and Computer Engineering*

Dissertation: Towards Strengthening Deep Learning-Based Side-Channel Leakage Analysis Against Embedded Systems

Dissertation Chair: Shuo Wang

**Lydia Yun**

Major: *Health and Human Performance—Sport Management*

Dissertation: Exploring the Effectiveness of Sport Organizations' Promotional Methods of CSR Programs

Dissertation Chair: Yong Jae Ko

**Zeyu Yuwen**

Major: *Statistics*

Dissertation: Low Tree-Rank Bayesian Vector Autoregression Models

Dissertation Chair: Leo Li Duan

**Tatianna L. Zambrano**

Major: *School Psychology*

Dissertation: Evaluating the Impact of ADOS-2 Usage on District-Level ASD Prevalence Rates

Dissertation Chair: Joni Williams Splett

**Jamie Ann Zeldman**

Major: *Health and Human Performance—Health Behavior*

Dissertation: Development and Assessment of a Tailored Digital Child Feeding Resource for Nonmaternal Caregivers to

Prevent Early Childhood Obesity in Home Visiting Programs

Dissertation Chair: Amy Rossi Mobley

**Cheng Zeng**

Major: *Statistics*

Dissertation: New Methods and Large Sample Theory in Bayesian Nonparametrics and Semiparametrics

Dissertation Chair: Leo Li Duan

**Chao Zhang**

Major: *Physics*

Dissertation: Cosmic Ray Diffusion in Turbulent Magnetic Fields

Dissertation Chair: Siyao Xu

**Xiaoliang Zhang**

Major: *Physics*

Dissertation: Quantum Phenomena Across Molecular, Two-Dimensional, and Oxide Platforms: From Magnetism to Excitonic and Superconducting States

Dissertation Chair: Chunjing Jia

**Xiaoxi Zhang**

Major: *Biostatistics*

Dissertation: Advances in Time-To-Event Data Analysis: Comparison of Non-Proportional Hazard Rates and Nonparametric Estimation in Multi-Stage Models

Dissertation Chair: Peihua Qiu

Dissertation Co-chair: Somnath Datta



**Yiqiao Zhang**

Major: *Statistics*

Dissertation: Computationally Efficient Inference and Learning in Latent Variable Models

Dissertation Chair: Karl Oskar Ekvall

Dissertation Co-chair: Aaron J. Molstad

**Yue Zhang**

Major: *Chemistry*

Dissertation: Development of New Stereoselective and Regioselective Iterative Glycosylation via Novel Latent-Active Moiety and Its Applications Toward Natural Product/Solid-Phase Synthesis

Dissertation Chair: Aaron Aponick

**Haolan Zheng**

Major: *Industrial and Systems Engineering*

Dissertation: Training Development and Learning Facilitation for Lower-Level Automated Driving Systems Across Age Groups

Dissertation Chair: Wayne Chi Wei Giang

**Ran Zhi**

Major: *Interdisciplinary Ecology—Soil and Water Sciences*

Dissertation: Soil Phosphorus in Subtropical Grasslands: Patterns, Drivers, and Legacy Effects

Dissertation Chair: Jiangxiao Qiu

**Mingwei Zhou**

Major: *Chemistry*

Dissertation: Developing Tools for Investigating Cell Surface by Combining Electron Paramagnetic Resonance (EPR) and Biosynthesis Techniques

Dissertation Chair: Gail E. Fanucci

**Wenyi Zhou**

Major: *Zoology—Tropical Conservation and Development*

Dissertation: Conservation Value of Alder-Leaf Birch Plantations for Bird Communities in Southwest China

Dissertation Chair: Scott K. Robinson

**Cenqi Zhu**

Major: *Design, Construction and Planning*

Dissertation: A Visual Perception Evaluation Framework for Conceptual Design of Urban Complete Streets Using Bayesian Networks

Dissertation Chair: Ilir Bejleri

**Mengdi Zhu**

Major: *Electrical and Computer Engineering*

Dissertation: AI-Powered Innovation: IC Cell Design Generation With Generative AI for Hardware Security

Dissertation Chair: Damon Lamar Woodard

**Weidong Zhu**

Major: *Computer Science*

Dissertation: Leveraging Storage Semantics to Enhance Data Security and Privacy

Dissertation Chair: Kevin Butler

Dissertation Co-chair: Sara Rampazzi

**Zixian Zhu**

Major: *Design, Construction and Planning—Construction Management*

Dissertation: Safe Human-Drone Communication on Construction Sites

Dissertation Chair: Idris Jeelani

Dissertation Co-chair: Masoud Gheisari

# DOCTOR OF EDUCATION

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## **Kristopher Brady**

Major: *Educational Leadership*

Dissertation: Examining the Use of Adult Learning Theory and the Role of Instructional Leadership in Police Academies in North Florida

Dissertation Chair: Chris Curran

## **Jennifer Bigos D'Aoust**

Major: *Special Education*

Dissertation: Succeeding With Dyslexia: The Lived Experiences of Adults With Dyslexia Who Identify as Successful

Dissertation Chair: Kristi Cheyney-Collante

## **Kaitlyn Rose Day**

Major: *Educational Leadership*

Dissertation: A Mixed Methods Analysis of Third-Grade Retention in a Suburban Southeastern Elementary School

Dissertation Chair: Christopher Redding

## **Timothy Difato**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Embodied Camera: Exploring the Influence of Gesture-Based Embodiment in VR Simulation on Understanding Image Exposure in the Digital Arts and Sciences

Dissertation Chair: Pavlo D. Antonenko

## **Kathryn Fransko**

Major: *Special Education*

Dissertation: Co-Teaching Toward Meaningful Inclusion: Case Study Attending to DisCrit Classroom Ecologies

Dissertation Chair: Hannah M. Mathews

Dissertation Co-chair: Erica D. McCray

## **Steven Jay Goldberg**

Major: *Curriculum and Instruction—Computer Science Education*

Dissertation: High School Student Motivation to Enroll in Elective Computer Science Courses: A Multi-Case Study

Dissertation Chair: Albert D. Ritzhaupt

## **Ethan Andrew Hood**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Fostering Epistemic Curiosity in Physical Therapy Students Using Asynchronous Video Debriefing After Healthcare Simulation With Standardized Patients

Dissertation Chair: Swapna Kumar

## **Hong Hu**

Major: *Curriculum and Instruction—Teachers, Schools, & Society*

Dissertation: Hide to Seek: A Teacherprincipal's Journey of Conscientization

Chair: Chonika Coleman-King

## **Kristen Suarez Lima**

Major: *Educational Leadership*

Dissertation: The Association Between School Climate Domains and Teacher Retention Intentions

Dissertation Chair: Christopher Redding

## **Austin Louise McGrew-Haynes**

Major: *Special Education*

Dissertation: Understanding Educators' Perceptions and Experiences Managing Challenging Behavior in the Classroom

Dissertation Chair: Melinda Leko

## **Meredith Katherine Nappy**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Leveraging Perusall® to Apply the Community of Inquiry Framework in Flipped Classrooms: Implications for Engagement and Instructional Design

Dissertation Chair: Nigel Arthur Newbutt

**Alexis Isabell Ochoa**

Major: *Special Education*

Dissertation: Paraprofessionals' Perspectives of Their Role in Mild-Moderate Special Day Classrooms: A Qualitative Study

Dissertation Chair: Hannah M. Mathews

Dissertation Co-chair: Melinda Leko

**Alexandra Gentile Oliva**

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Enhancing Adult Learners' Engagement Through a Gamified Culinary Training Environment

Dissertation Chair: Seyedahmad Rahimi

**Marissa Rose Piligian**

Major: *Special Education*

Dissertation: Unfolding Narratives: Caregivers' Perceptions of Literacy Acquisition in Children With Reading Disabilities

Dissertation Chair: Kristi Cheyney-Collante

**Ariadna Karina Martinez Ramirez**

Major: *Special Education*

Dissertation: Effect of Behavioral Skills Training (BST) on Elementary School General Educator Implementation of Behavior Intervention Plans (BIPS)

Dissertation Chair: Nelson Carl Brunsting

Dissertation Co-chair: Matthew Kevin Burns

**Rachel Alexa Rudner**

Major: *Educational Leadership*

Dissertation: Arts Integration in a Mathematics Classroom: Teacher-Perceived Efficacy

Dissertation Chair: Walter F. Balser

**Jenna Elizabeth Saxton**

Major: *Higher Education Administration*

Dissertation: Skill Acquisition Processes of New Department Chairs in an Academic Health Center: A Case Study

Dissertation Chair: Cliff Haynes

**Keira Simmonds**

Major: *Educational Leadership*

Dissertation: Meeting the Career Development Needs of Pre-Collegiate Black Youth: An Instrumental Case Study of a Selected Florida Career & Technical Education Program

Dissertation Chair: Chris Curran

**Jennifer Lynn Werner**

Major: *Educational Leadership*

Dissertation: Liberties of Librarians: A Qualitative Study of How Florida Librarians Understand and Navigate Controversial Topics and Laws

Dissertation Chair: Christopher Thomas

**Stefanie Denise Wilson**

Major: *Educational Leadership*

Dissertation: Examining the Relationship Between Special Education Teachers' Perception of Principals' Communication and Special Educators' Intentions to Stay in or Leave Teaching in U.S. Public Elementary Schools

Dissertation Chair: Christopher Redding

**Terranesha Danielle Young Jamison**

Major: *Special Education*

Dissertation: Navigating Intersections: Black Caregivers, Disability, and the Lived Experiences of Autism Support Group Participants

Dissertation Chair: Erica D. McCray

Dissertation Co-chair: Kristi Cheyney-Collante

# DOCTOR OF MUSICAL ARTS

---

Denis Vasenin

# DOCTOR OF PLANT MEDICINE

---

Raquel Sayana Hill

Adam Pitcher

## PROFESSIONAL DEGREES

---

### THE WARRINGTON COLLEGE OF BUSINESS THE HOUGH GRADUATE SCHOOL OF BUSINESS

---

**Dean Saby Mitra**

#### DOCTOR OF BUSINESS ADMINISTRATION

Lorik Abdullai

Michael John Baker

Rahul Banerjee

Jennifer Michelle Boyd

Raymond C. Branham

Kjell Emil Carlson

Ryan Barrett Dietz

Christian Robert Gannon

Patricia Goodwin-Peters

Yin-Ting Hsu

Andrea Nicole McHale

Justin T. Palmer

Garrett Stelio Peirce

Clifford Alexander Rittel

Art Rubeck

Anthony Shaw

Nadia A. Tepper

Kanyalakshmi Vedantam

Emily Marie Walsvik

### THE FREDRIC G. LEVIN COLLEGE OF LAW

---

**Dean Merritt McAlister**

#### MASTER OF LAWS IN INTERNATIONAL TAXATION

Prachi Jain

### THE COLLEGE OF NURSING

---

**Dean Shakira Henderson**

#### DOCTOR OF NURSING PRACTICE

Sarah Fabry Babbitt

Genevieve M. Banaag

Sierra Lynn Burkhalter

Amanda Hester Collins

Tiffany Octavia Evans-Pickett

Andrelle Franck

Madison Oloughlin Hebda

Kelsey Ann Herring-Johnson

Jennifer Jules Hubert

Daniela Izquierdo

Chloe A. Lenton

Ashley Elizabeth Markant

Mallory E. Mettler

Kennisha Brooke Miranda

Sarah Catherine Moody

Danni Moran

Taylor Nicole Ouellette Tavilla

Kaylyn Marie Paveglio

Beatrice Perez

Ashley Michele Freeman Posada

Christy Ann Raile

Mariah Christina Rappazzo

Abageal Ann Roland-Steinke

Ana Marguerite Scott

Ashley Antionette Seay

Nipa Rani Shil

Sati Singh

Lana Marie Smith

Abigail Elizabeth Tomlin

Kristin C. Yoli

### THE COLLEGE OF PUBLIC HEALTH AND HEALTH PROFESSIONS

---

**Dean Beth Virnig**

#### DOCTOR OF PHYSICAL THERAPY

Toshita Barve

Tykeela Azzielyn Booker



## Caps and Gowns: An Explanation

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The academic regalia worn by graduating students and faculty in this era evolved from a style of dress worn by members of guilds and religious orders in medieval times. The academic gown is worn by individuals who have earned a degree in higher education. In addition, hoods are worn by graduate degree candidates but not by undergraduate degree candidates.

At the University of Florida, the lining of the hood has a blue chevron on an orange background to represent the university colors. University faculty members who hold degrees from another college or university wear the colors of their alma mater.

The velvet edging on the academic hood is the color that represents the particular degree held by the wearer. Agricultural and Life Sciences and Forest Resources and Conservation share maize edging; Design, Construction and Planning and Building Construction are lilac; Audiology degrees have colonial blue edging; Business Administration and Accounting are the color drab; Dentistry is lilac; Education is light blue; Engineering degrees are represented by orange edging; Fine Arts degrees have brown edging; Health and Human Performance is sage green; (continued)







Journalism and Communications is garnet; Law is purple; Liberal Arts is white, and Liberal Sciences is gold yellow; Medicine is green; Music is pink; Natural Resources and Environment is antique gold; Nursing is apricot; Doctor of Occupational Therapy is slate blue; Doctor of Pharmacy is olive; Philosophy is royal blue; Public Health degrees have salmon pink edging; Rehabilitation Counseling degrees have Nile green edging; and Veterinary Medicine is gray.

Distinctions among sleeves indicate the type of degree held by the wearer. A long, pointed sleeve indicates a bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a master's degree. A round, open sleeve identifies a doctoral degree.

The blue doctoral regalia also has velvet running on the rest of the gown, including crossbars on the sleeve. Colored tassels on the degree candidates' caps indicate a candidate's school or college.

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## Diplomas

Diplomas will be mailed to the graduates' diploma mailing address in October of 2025.



## **SOCIAL MEDIA**

Whether you are a #UFGrad or are celebrating a #UFGrad, we invite you to join the commencement conversation on social media. Select posts will be featured on the video boards prior to the ceremony.

## **PHOTOGRAPHS**

The university requests that all commencement guests remain in their seats while taking photographs; no guests are permitted in the graduates' seating or lineup area. Photographs of the graduates as they cross the stage are available through the company contracted with the university. Proofs will be sent to the graduates within 10 days of the ceremony.

Contact information: University Photography. 205-391-9500. [Questions@universitygradphoto.com](mailto:Questions@universitygradphoto.com)

## **COMMENCEMENT PROGRAM**

While supplies last, additional copies of this commencement program are available at the UF Bookstore for a \$1 donation to the Machen Florida Opportunity Scholars program, which helps fund a UF education for low-income students who are first in their family to attend college.

A downloadable PDF can be found online at <https://commencement.ufl.edu/past-programs/>

## **THIS IS NOT AN OFFICIAL GRADUATION LIST**

While every effort is made to ensure accuracy in this commencement program, printing deadlines may result in omission of some names or use of names of some persons not completing graduation requirements as intended. This printed program, therefore, should not be used to determine a student's academic or degree status. The university's official registry for conferral of degrees is the student's permanent academic record as reflected on the student's transcript, maintained by the Office of the University Registrar.

