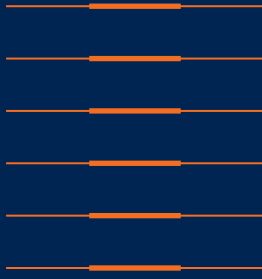


FALL 2025

Commencement



Greetings from President Landry

Greetings and congratulations to you, esteemed University of Florida Doctoral Graduates of 2025.

This day culminates years of planning, work, rigor, sacrifice and perseverance. You have earned your doctorate from one of the nation's very best public universities. I commend you and join you in gratitude for your faculty advisors, mentors, fellow students and family and friends who have supported you.

The education and expertise you have gained here are rare and powerful. My simple message is to use them wisely and generously. Lead with evidence and with integrity. Share your knowledge openly, mentor often, and apply your scholarship and science to the problems that matter most to humanity and this pendent world.

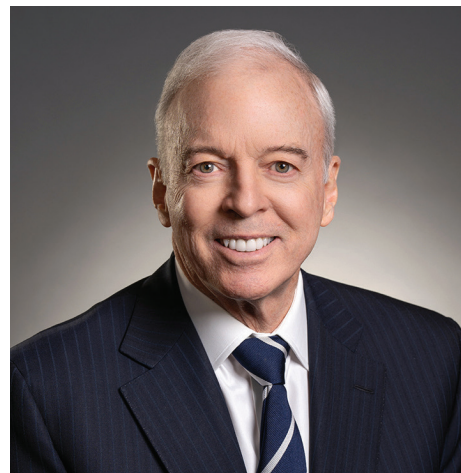
You will make a lasting impact not only through your own success, but by all the lives you touch. With your depth of knowledge and your hard-fought understanding of the slow, yet profoundly meaningful, work of intellectual inquiry, you are needed now more than ever.

Thank you for your research, teaching, insights, discoveries and the many ways you have benefited the University of Florida during your time here. I hope you will stay connected as active distinguished alumni. I commend you! I believe in you! My faith in the future rests upon you!

Again, congratulations, and Go Gators!



Donald Landry



Dr. Donald Landry

Donald Landry has served as the interim president of the University of Florida since September 1, 2025. Prior to his appointment, he was the founding director of the Burch-Lodge Center for Human Longevity at Columbia as well as Chair Emeritus of the Department of Medicine at Columbia University and past Physician-in-Chief at New York-Presbyterian Hospital/Columbia University Medical Center, leading the Department and the Medical Service from 2007–2023. He is also past founding director of the Division of Experimental Therapeutics.

Dr. Landry completed his Ph.D. in Organic Chemistry with Nobel laureate R.B. Woodward at Harvard University in 1979 and then obtained the M.D. degree from Columbia University in 1983. After completing his Residency in Internal Medicine at the Massachusetts General Hospital/Harvard Medical School, he returned to Columbia for training as an NIH Physician-Scientist, 1985–90, and remained as an active member of the Columbia faculty until his appointment to the UF presidency.

University of Florida Leadership

State Board of Education

Ryan Petty, *Chair*
Esther Byrd, *Vice Chair*

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| Grazie Christie | Kelly Garcia |
| Layla Collins | MaryLynn Magar |
| Daniel Foganholi Sr. | |

Commissioner of Education

Anastasios Kamoutsas

Florida Board of Governors

Brian Lamb, *Chair*
Alan Levine, *Vice Chair*

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| Douglas Broxson | Ken Jones |
| Timothy Cerio | Charles Lydecker |
| Carson Dale | Craig Mateer |
| Kimberly Dunn | Jose Oliva |
| Aubrey Edge | Paul Renner |
| Carson Good | Eric Silagy |

Chancellor of the State University System of Florida

Ray Rodrigues

University of Florida Board of Trustees

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Rahul Patel, *Vice Chair*

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| David Brandon | James Heavener |
| Richard Cole | Daniel O’Keefe |
| Christopher Corr | Marsha Powers |
| Blake Cox | Fred Ridley |
| Jed Davis | Patrick Zalupski |
| Luisa Amelia Dempere | |

University President and Cabinet

Donald Landry
Interim President

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

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Senior Vice President and Chief Information Officer - Information Technology

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Vice President - General Counsel

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Senior Vice President and Chief Financial Officer

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Vice President - Construction, Facilities, and Real Estate

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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

Deans of the University

Chinemelu “Chimay” Anumba
College of Design, Construction and Planning

Hubert “Hub” Brown
College of Journalism and Communications

Warren Dixon
Interim - 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
Interim - College of Medicine

Kevin Ingersent
Interim - College of Liberal Arts and Sciences

Andra Johnson
IFAS Extension

Merritt McAlister
Interim - Fredric G. Levin College of Law

Kati Migliaccio
College of Agricultural and Life Sciences

Sabyasachi “Saby” Mitra
Warrington College of Business

Patrick Reakes
Interim - University Libraries

Michael Reid
College of Health and Human Performance

Jennifer Setlow
Interim - 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 Zimmel
College of Veterinary Medicine

COMMENCEMENT AGENDA – FRIDAY, DECEMBER 12, 2:00 P.M.

| | |
|-----------------------------------|---|
| Presiding | Donald Landry <i>Interim President</i> |
| Processional | UF Commencement Band |
| National Anthem | Anthony Offerle <i>Vocalist</i> UF Commencement Band |
| Welcome | Donald Landry |
| Introductions | Joseph Glover <i>Interim Provost and Executive Vice President - Academic Affairs</i> |
| Commencement Address | Donald Landry |
| Presenting Candidates for Degrees | Joseph Glover |
| Conferring of Degrees | Amelia Dempere <i>Member, UF Board of Trustees</i> |
| Recognition of Graduates | |
| Closing Remarks | Donald Landry |
| 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> |

GRADUATE SCHOOL

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

DOCTOR OF PHILOSOPHY

Mai Mohamed Sayed Ahmed Abdelmageed

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Application of Model-Informed Drug Development Approaches to Guide Optimal Dosing in Special Populations

Dissertation Chair: Stephan Schmidt

Orlando Acevedo Charry

Major: *Interdisciplinary Ecology—Wildlife Ecology and Conservation*

Dissertation: Leveraging *The Power of People* for Biodiversity Conservation: Insights From Community Science Data on Interdisciplinary Ecology

Dissertation Chair: Miguel Acevedo

Dissertation Co-chair: Scott Robinson

Janam Prabhat Acharya

Major: *Agronomy*

Dissertation: Genetics of Stem and Crown Rust Resistance in Oat (*Avena sativa* L.) in Southern United States

Dissertation Chair: Md Ali Babar

Kelsy-Ann Sashauna Adams

Major: *Mass Communication*

Dissertation: Healing in the Shadows of Exploitation: Afro-Caribbean Women's Experiences in Creating and Sustaining Online Wellness Communities

Dissertation Chair: Rachel Grant

Shreyanshu Agrawal

Major: *Chemical Engineering*

Dissertation: Interfacial Instability of Electrodeposition: From Theoretical Predictions to Experimental Validation

Dissertation Chair: Ranga Narayanan

Dissertation Co-chair: Kirk Ziegler

Maryam Jamal A. Al Saeed

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: A Comprehensive Genomic Investigation for Clopidogrel-Treated Patients Utilizing Real-World Data

Dissertation Chair: Larisa Humma Cavallari

Alaa Mohammed Albukhari

Major: *Mechanical Engineering*

Dissertation: Thermodynamic Analysis of Counterflow Reactor Configurations for Solar Thermochemical Hydrogen Production

Dissertation Chair: Jonathan Scheffe

Zainab Ali

Major: *Geography*

Dissertation: Tropical Cyclone Rainfall and Remote Sensing Applications: Insights Into the Global Precipitation Measurement Mission Dual-Frequency Precipitation Radar, Ground-Based Radars, and Flash Flood Warnings

Dissertation Chair: Corene Matyas

Jimmy Nezar Almacddissi

Major: *Aerospace Engineering*

Dissertation: Development of Cryogenic Propellant Storage Tank Inner Surface Coating for Elimination of Cryogen Boiloff in Reduced Gravity

Dissertation Chair: Jacob Nan-Chu Chung

Zijing An

Major: *Curriculum and Instruction*

Dissertation: Meso-Level Actors as Policy Arbiters: Teacher Educators' Interpretations of China's National English Curriculum Standards

Dissertation Chair: Sara Ashley Smith

Jeremy Joel Anderson

Major: *Electrical and Computer Engineering*

Dissertation: A Long-Term Average Cepstral Enhancement Technique to Improve Single Microphone Automatic Speech Recognition

Dissertation Chair: John Gregory Harris

Aghane Antunes

Major: *Geography*

Dissertation: Reconciling Conservation and Development: Is Bioeconomy a Viable Development Pathway for Amazonia?

Dissertation Chair: Cynthia Simmons

Jonathan Simoes Arnaud

Major: *Nuclear Engineering Sciences*

Dissertation: Runaway Electron Generation in Tokamak Disruptions

Dissertation Chair: Christopher McDevitt

Gadhaun Aslam

Major: *Engineering Education*

Dissertation: Exploring Challenges Faced by Instructional Engineering Faculty Using Professional Development

Dissertation Chair: Idalis Villanueva

Shah Zaib Aslam

Major: *Electrical and Computer Engineering*

Dissertation: Sub-THz Transmitter Design Featuring Direct-Digital Modulation-Embedded Multipliers for Scalability

Dissertation Chair: David Arnold

Dawood Atta

Major: *Agricultural and Biological Engineering*

Dissertation: Enhancing Sustainability in the Circular Bioeconomy: The Role of Crop Modeling and Life Cycle Assessment for Peanuts

Dissertation Chair: Gerrit Hoogenboom

Christian Thomas Austin

Major: *Mathematics*

Dissertation: Numerical Analysis and Regularization of the SRTD Formulation for the Solution to the Equations of Motion of Viscoelastic Fluid Flows

Dissertation Chair: Sara Pollock

Jordan T. Bajema

Major: *Interdisciplinary Ecology—Fisheries and Aquatic Sciences*

Dissertation: The Arrival, Survival, and Persistence of a Range-Expanding Species, Common Snook (*Centropomus undecimalis*), in Florida's Nature Coast

Dissertation Chair: William Frank Patterson III

Dissertation Co-chair: Micheal Allen

Fredy H. Ballen

Major: *Forest Resources and Conservation—Natural Resource Policy and Administration*

Dissertation: Essays on the Economics of Fruit Tree Crops: The Impact of Trade, Invasive Species and Opportunities for Diversification

Dissertation Chair: Damian Campbell Adams

Wenxuan Bao

Major: *Computer Science*

Dissertation: Towards Reliable and Practical Privacy-Preserving Machine Learning

Dissertation Chair: Vincent Bindschaedler

Shannon M. Barry

Major: *Microbiology and Cell Science*

Dissertation: Genetic Dissection of Citrus Stress Response Pathways: Functional Roles of SAG101 and GPX4 in Immune and Redox Regulation

Dissertation Chair: Nian Wang

Belal Abdullah Batwa

Major: *Chemical Engineering*

Dissertation: Reconfigurable Nano-Optics Enabled by Shape Memory Materials

Dissertation Chair: Peng Jiang

Dissertation Co-chair: Curtis Taylor

Ebonie Bennett

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

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

Dissertation Chair: Vicki Vescio

Seyed Mostafa Biazar Seighalani

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

Dissertation: Integrating Numerical Simulations, Machine Learning, and Geospatial Analysis for Sustainable Groundwater Management in South Florida

Dissertation Chair: Golmar Golmohammadi

Jeremy Ethan Block

Major: *Human-Centered Computing*

Dissertation: Here You Go: Design Recommendations for Provenance Information in Sensemaking Hand-Offs

Dissertation Chair: Eric Ragan

Harrison Louis Blount

Major: *Psychology*

Dissertation: Oxytocin Modulates Nucleus Accumbens Dopamine Dynamics and Oxycodone Seeking in Male but Not Female Sprague Dawley Rats

Dissertation Chair: Marek Schwendt

Dissertation Co-chair: Lori Knackstedt

Robinson Botero-Arias

Major: *Wildlife Ecology and Conservation*

Dissertation: Population Trends and Dynamics, Reproductive Ecology, and Management of Black Caiman (*Melanosuchus niger*) in the Middle Solimões River, Mamirauá Reserve, Brazil

Dissertation Chair: Bette Loiselle

Lelydeyvis Boza

Major: *Educational Leadership—Educational Policy*

Dissertation: Testimonios of Latine Students Navigating Educational Policy Making in Miami-Dade County

Dissertation Chair: Chris Curran

Pratish Brahman

Major: *Zoology—Animal Molecular and Cellular Biology*

Dissertation: Understanding Evolution of Animal Behavior Through the Lens of Sexual Selection and Sensory Adaptations

Dissertation Chair: Colette Marie St. Mary

Elizabeth M. Brammer-Robbins

Major: *Veterinary Medical Sciences—Toxicology*

Dissertation: Cellular and Molecular Mechanisms of Florida Red Tide (*Karenia brevis*) Brevetoxin Exposure in the Pinfish (*Lagodon rhomboides*) and Florida Manatee (*Trichechus manatus latirostris*)

Dissertation Chair: Christopher Joseph Martyniuk

Dissertation Co-chair: Iske Larkin

Trista Michelle Brophy Cerquera

Major: *Interdisciplinary Ecology—Urban and Regional Planning*

Dissertation: Evaluating Earth Observation Use in Local Government: Insights From Feasibility Case Studies in Water Quality and Flood Risk Management

Dissertation Chair: Eban Zachary Bean

Dissertation Co-chair: Samuel Smidt

Sabina Budhathoki

Major: *Entomology and Nematology*

Dissertation: Cover Crops Impact on Plant-Parasitic Nematode Suppression, and Nematode Communities in Vegetable Crops

Dissertation Chair: Zane Grabau

Christian Bunker

Major: *Physics*

Dissertation: Protocols for Electrically Addressing Molecular Spin Qubits in Supramolecular Devices

Dissertation Chair: Hai Ping Cheng

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

Karly A. Caples

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Investigating Age-Related Alterations to Muscle Function and Signaling to Inform Therapeutic Studies

Dissertation Chair: Siobhan Malany

Julio Cesar Cardoso Cruz

Major: *Food and Resource Economics*

Dissertation: Three Essays to Support Decision-Making in the Face of Challenges Imposed by Citrus Greening in Florida

Dissertation Chair: Lisa House

Dissertation Co-chair: Christa Court

Madison Elizabeth Carelock

Major: *Medical Sciences—Cancer Biology*

Dissertation: Investigating the Use of BCL-XL/2-Targeting PROTACS for Modulation of Cancer Metastasis, Cachexia, and Immune Evasion

Dissertation Chair: Weizhou Zhang

Nuria Castaneda

Major: *Food Science*

Dissertation: Characterization of the Physicochemical Properties of Protein Isolate Obtained From Lupin Bean (*Lupinus mutabilis*) and Its Application as a Micronutrient Delivery System

Dissertation Chair: Juan Emilio Andrade

Denver Thomas Cayetano

Major: *Forest Resources and Conservation—Tropical Conservation and Development*

Dissertation: Tree Responses to Liana Infestation and Selective Liana-Cutting in Hurricane-Disturbed Forests of Belize

Dissertation Chair: Dan Johnson

Raghuveer Chandrashekhara

Major: *Rehabilitation Science*

Dissertation: The Critical Role of Great Toe Strength in Gait Biomechanics: A Comparative Study of Traditional and Machine Learning Analyses Across Demographic Groups in Healthy Adults

Dissertation Chair: Hongwu Wang

Atri Chatterjee

Major: *Electrical and Computer Engineering*

Dissertation: Methodology, Primitive Design and Toolflow for Security-Aware Synthesis of Hardware Systems

Dissertation Chair: Swarup Bhunia

Helena Chen-Abair

Major: *Art History*

Dissertation: *Bronze Forgery, Textual Authenticity, and Scholarly Identity in Nineteenth-Century China*

Dissertation Chair: Tongyun Yin

Dissertation Co-chair: Ashley Elizabeth Jones

Michael William Christopher

Major: *Chemistry*

Dissertation: *Leveraging High-Resolution Mass Spectrometry, Hydrogen-Deuterium Exchange and Tautomerism for Metabolite Characterization*

Dissertation Chair: Boone Prentice

Dissertation Co-chair: Timothy Garrett

Chia-Chu Chu

Major: *Coastal and Oceanographic Engineering*

Dissertation: *Evaluating Salt Marsh Morphodynamic Evolution via Watershed Divides*

Dissertation Chair: Alberto Canestrelli



Katherine Anne Clary

Major: *Agricultural Education and Communication*

Dissertation: New-Media Marketing in the Green Industry: A Survey of Nursery and Landscape Professionals' Communications Adoption, Barriers, and Perceived Value

Dissertation Chair: Jamie Lynn Loizzo

Nora Gillian Cleary

Major: *Public Health—One Health*

Dissertation: Exploring the Dynamics of Tick-Borne Pathogens and Their Evolving Threat From Tick Vectors in Mongolia

Dissertation Chair: Michael Emery von Fricken

Donald Scott Coon

Major: *Agricultural and Biological Engineering*

Dissertation: Feeding the Final Frontier: Temperature, Crop Dynamics, and the Energy Cascade Crop Models

Dissertation Chair: Ana Martin-Ryals

Vilma Maria Cooper

Major: *Entomology and Nematology*

Dissertation: Using Vector Ecology to Guide the Development of Integrated Vector Management Strategies for the Control of Hemorrhagic Disease Vectors in Florida Deer Farms

Dissertation Chair: Nathan Daniel Burkett-Cadena

Christopher C. Crary

Major: *Electrical and Computer Engineering*

Dissertation: FPGA-Based Accelerators for Tree-Based Genetic Programming

Dissertation Chair: Greg Stitt

Dissertation Co-chair: José Príncipe

Danilo José do Nascimento Cruz

Major: *Geology*

Dissertation: Deciphering Crustal Evolution Through Mafic Volcanic Rocks: A Multi-Method Approach Using in-situ Analysis, Elemental and Isotope Geochemistry, and Geochronology

Dissertation Chair: David Foster

Xiurui Cui

Major: *Food and Resource Economics*

Dissertation: The Influence of Immigration Policy and International Relations on Labor Market Outcomes

Dissertation Chair: Zhengfei Guan

Justina Jade Dacey

Major: *Soil, Water, and Ecosystem Sciences*

Dissertation: Evaluating Benthic-Pelagic Coupling of Nitrogen Cycling in an Urbanizing Subtropical Estuary

Dissertation Chair: Ashley Smyth

Dissertation Co-chair: AJ Reisinger

Parag Das

Major: *Chemistry*

Dissertation: Dicyanorhodanine and 1,1-Dicyanomethylene-3-Indanone-Functionalized Aromatic Heterocycles as Visible-Light-Driven Molecular Photoswitches

Dissertation Chair: Ronald Castellano

Upoma Das

Major: *Electrical and Computer Engineering*

Dissertation: Leveraging Analog Characteristics for Robust IP Security

Dissertation Chair: Farimah Farahmandi

Katherine Rose Davis

Major: *Zoology*

Dissertation: Eating the Everglades: Investigating the Burmese Python (*Python bivittatus*) Invasion Through Stable Isotopes and Gut Contents

Dissertation Chair: Hannah Vander Zanden

Dissertation Co-chair: Christina Romagosa

Marcello De Giosa

Major: *Entomology and Nematology*

Dissertation: Ecology and Management of *Acalitus simplex* Flechtmann & Etienne (Prostigmata:Eriophyidae) on *Ruellia simplex* (Lamiales:Acanthaceae)

Dissertation Chair: Alexandra Margarita Revynthi

Judyson De Matos Oliveira

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Assessing Precision Subirrigation With Automated Drainage Tile for Water and Nutrient Conservation

Dissertation Chair: Lincoln Zotarelli

Dissertation Co-chair: Mark Clark

Beatriz de Toledo Franceschi

Major: *Plant Pathology*

Dissertation: Physiological Costs of Carrying the Immune Receptor XA21 in Rice

Dissertation Chair: Wen-Yuan Song

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 Hozić

Emily Ann DeRuyter

Major: *Public Health—One Health*

Dissertation: Viral Discovery and Risk Assessment in Florida: Application of One Health Methods

Dissertation Chair: John Lednicky

Raed Diab

Major: *Physics*

Dissertation: A Quantitative Performance Analysis of Two Different Interferometric Alignment Sensing Schemes for Gravitational Wave Detectors

Dissertation Chair: Paul Fulda

Claudia Patricia Diaz Carrasco

Major: *Agricultural Education and Communication*

Dissertation: Our Stories Matter: Strengthening the U.S. Extension Workforce

Dissertation Chair: John Diaz

Gabriella Kara Dickinson

Major: *Plant Molecular and Cellular Biology*

Dissertation: The Evolution of Substrate Specificity in Quinone C-Methyltransferases in Photosynthetic Organisms

Dissertation Chair: Gilles Basset

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

Zaafir Muhammad Dulloo

Major: *Chemistry*

Dissertation: Disulfide-Bond Disrupting Agents: Fluorinated Bioisosteres, Fluorescent Bioimaging Probes, and Formulation

Dissertation Chair: Ronald Castellano

Isis Sorayah Lynn Dwyer

Major: *Anthropology*

Dissertation: Emic Exceptions: Confronting Racial Typologies in the Black Atlantic

Dissertation Chair: Valerie Burke DeLeon

William G. Dyer

Major: *Linguistics*

Dissertation: The Syntax of Relative Clauses in Sereer

Dissertation Chair: Fiona McLaughlin

Dissertation Co-chair: Eric Potsdam

Cynthia Chiamaka Eluagu

Major: *Chemical Engineering*

Dissertation: Electrochemical Impedance Spectroscopy Experiments, Analysis and Models for Neural Stimulation

Dissertation Chair: Mark Orazem

Moaaz Refaat Elwan

Major: *Physics*

Dissertation: Calibration Strategy for SuperCDMS High-Voltage Detectors Operations

Dissertation Chair: Tarek Saab

Shaghayegh Esmaeili

Major: *Human-Centered Computing*

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

Dissertation Chair: Eric Ragan

Samia Farooq

Major: *Animal Sciences*

Dissertation: Evaluating Forage Preservation Strategies: Effects of Microbial Inoculation, Maturity, and Forage Type on Silage Fermentation, Nutrient Dynamics, and Microbial Ecology in Southeastern U.S.

Dissertation Chair: Diwakar Vyas

Hugh N. Farrior Jr.

Major: *Psychology*

Dissertation: Sleep Across Substance Use Disorder Treatment: Blind Men and an Elephant

Dissertation Chair: Ben Lewis

Renan Favero

Major: *Civil Engineering*

Dissertation: Development, Evaluation, and Test of Car-Following Models for Autonomous Shuttles

Dissertation Chair: Lily Elefteriadou

Megan Fry

Major: *Anthropology*

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

Dissertation Chair: John Sanders Krigbaum

Madeline Jeanne Fuchs

Major: *Biomedical Engineering*

Dissertation: Supramolecular Enzyme-Peptide Gels for Localized Therapeutic Biocatalysis in Gout and Psoriasis

Dissertation Chair: Benjamin Keselowsky

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

Claudia Juliana Garnica Díaz

Major: *Botany—Tropical Conservation and Development*

Dissertation: Environmentally Driven Variation in Leaf Structure and Its Implications for the Composition and Function of Global Forests

Dissertation Chair: Grace John

Dissertation Co-chair: Jeremy Lichstein

Brian Edward Gawronski

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Improving the Implementation of Preemptive Pharmacogenetic Testing With a Focus in Medically Underserved Patient Populations

Dissertation Chair: Julio Duarte

Gregory Gazda

Major: *Chemistry*

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

Dissertation Chair: Aaron Aponick

Arman C. Ghannadian

Major: *Aerospace Engineering*

Dissertation: Modal Analysis and Simulation of Transitional and Turbulent Compressible Flows

Dissertation Chair: Subrata Roy

Utsab Ghimire

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Identification and Characterization of Novel Senescence Associated Genes in Broccoli

Dissertation Chair: Tie Liu

Yadav Prasad Ghimirey

Major: *Wildlife Ecology and Conservation*

Dissertation: Understanding Phenology and Mammalian Community Dynamics Under Rapidly Changing Environment in a North American Boreal Forest

Dissertation Chair: Madan Kumar Oli

Yeonseo Jo Gittelmacher

Major: *Health and Human Performance—Tourism, Hospitality, and Event Management*

Dissertation: When Small Talk Helps and When It Hurts: Understanding the Dual Effects of AI Conversation in Service and Workplace Contexts

Dissertation Chair: Svetlana Stepchenkova

Heather Lee Gonyeau

Major: *History*

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

Dissertation Chair: Heather Vrana

Chaitanya Gottapu

Major: *Veterinary Medical Sciences*

Dissertation: Developing a Vaccine Against Spotty Liver Disease Caused by *Campylobacter hepaticus* in Commercial Layers

Dissertation Chair: Subhashinie Kariyawasam

Savannah Gray Grace

Major: *Wildlife Ecology and Conservation*

Dissertation: Infectious Disease Ecology of Florida White-Tailed Deer

Dissertation Chair: Samantha Wisely

Zachary Franklin Greenberg

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Artificial Intelligence-Driven Molecular Engineering Methods to Advance Extracellular Vesicle Precision Medicine

Dissertation Chair: Mei He

Dissertation Co-chair: Kiley Graim

Boyang Gu

Major: *Mechanical Engineering*

Dissertation: A Concurrent Atomistic Continuum Study of Dislocation Intersection Induced Fracture

Dissertation Chair: Youping Chen

Mitchell Connor Gulkis

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: *Molecular Structure Across Scales*

Dissertation Chair: Robert McKenna

Dissertation Co-chair: Linda Bloom

Garret O. Hack

Major: *Psychology*

Dissertation: *Social Contingencies and Autism: Reinforcer Probability and Dental Care Procedures*

Dissertation Chair: Iser Guillermo DeLeon

Gareth Hadyk-DeLodder

Major: *English*

Dissertation: *The Siren Call of England's Past: Victorian Nostalgia(s), Jewish Lives, and the Politics of Belonging*

Dissertation Chair: Pamela Gilbert

Jamielyn Daugherty Hagyard

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: *A Pilot Study on Extension Garden Educational Tours Impact on Learning and Behavioral Change*

Dissertation Chair: Kimberly Moore

Dissertation Co-chair: Mica McMillan

Ashley Marie Hamersma

Major: *Botany*

Dissertation: *New Fossil Taxa From the Oligocene Belén Flora of Peru*

Dissertation Chair: Steven Manchester

Dong Han

Major: *Industrial and Systems Engineering*

Dissertation: *Efficient and Fair Routing Operations for Urban Mobility and Healthcare*

Dissertation Chair: Yu Yang



Md Saad Ul Haque

Major: *Electrical and Computer Engineering*

Dissertation: IP Protection in Chiplet-Based Heterogeneously Integrated System-in-Packages (SiPs)

Dissertation Chair: Mark Tehranipoor

Priyanka Hari Haran

Major: *Interdisciplinary Ecology—Wildlife Ecology And Conservation*

Dissertation: Ecology and Monitoring of Mixed-Species Bird Flocks in Tropical Working Landscapes

Dissertation Chair: Emilio Miguel Bruna III

Kathryn E. Hartikka

Major: *Sociology*

Dissertation: Cohorts, Caregiving, and Successful Aging for Baby Boomer Women: A Feminist Life Course Approach

Dissertation Chair: Monika Ardelt

Yue He

Major: *Nutritional Sciences*

Dissertation: Mechanisms of Heme-Iron Absorption in a New Nutritional Mouse Model

Dissertation Chair: James Collins

James Bernard Heidings

Major: *Medical Sciences—Pharmacology and Therapeutics*

Dissertation: Regulation of MYO15A Motor Function in Hearing Loss

Dissertation Chair: Jonathan Bird

Richard Michael Herren

Major: *Wildlife Ecology and Conservation*

Dissertation: Sea Turtle Abundance, Demography, and Movements on Florida's Gulf Coast

Dissertation Chair: Raymond Carthy

Mariana Herrera Corzo

Major: *Plant Pathology*

Dissertation: Characterizing Cacao Resistance and Pathogen Diversity: Effector Variation, Geographic Distribution, and Gene Expression of *Phytophthora* Spp. During Black Pod Disease Infection

Dissertation Chair: Erica Goss

Bo Hu

Major: *Electrical and Computer Engineering*

Dissertation: Neural Orthonormal Decomposition of Conditional Densities and Density Ratios for Information-Theoretic Contrastive Feature Learning and Mixture Generative Networks

Dissertation Chair: José Príncipe

Peijie Hu

Major: *Chemistry*

Dissertation: Reactivity and Active Site Investigation of Molecular and Supported Group IV Metal Complexes With Exploratory Work on Nitride Support

Dissertation Chair: Keith Searles

Qinghui Huang

Major: *Electrical and Computer Engineering*

Dissertation: Common-Mode and Radiated EMI Analysis, Modelling, Reduction in Transformers and Power Modules for Power Converters

Dissertation Chair: Shuo Wang

Ryan Donovan Hurley

Major: *Aerospace Engineering*

Dissertation: Three-Dimensional Path Planning With Sensing and Acoustic Requirements for Small Unmanned Aerial Vehicle Flight Within an Obstacle Rich Environment

Dissertation Chair: Rick Lind

Zahin Ibnat

Major: *Electrical and Computer Engineering*

Dissertation: Automation of Hardware Security Analysis and Mitigation of AI Accelerators

Dissertation Chair: Farimah Farahmandi

Daniel Gregory Icenhour

Major: *Chemistry*

Dissertation: Engineering Approaches to Expand the Chemical Diversity of Bacterial Terpenoids

Dissertation Chair: Jeffrey Daniel Rudolf

Nina Charissa Aguilar Infantado

Major: *Microbiology and Cell Science*

Dissertation: Characterizing Microbial Degradation of Soil Organic Carbon Under Redox Gradients in Everglades Agricultural Area Peat Soils

Dissertation Chair: Willm Martens-Habbena

Dissertation Co-chair: Sarah Strauss

Samuel Oluwasegun Ipinyomi

Major: *Plant Breeding*

Dissertation: Characterization and Fine Mapping of Novel Loci for Fusarium Wilt Resistance in Fresh-Market Tomato

Dissertation Chair: Jessica Chitwood-Brown

Rhonda Katrease Jackson

Major: *Youth Development and Family Sciences*

Dissertation: Identifying How Families Participate & Perceive Their Roles as Relevant Members of the IEP Team

Dissertation Chair: LaToya O'Neal

Austin Robert Jacobs

Major: *Mathematics*

Dissertation: An Analysis of the Use of Integral Operators and Spectral Metric Theory in Certain Applications

Dissertation Chair: James Pascoe

Yinhao Jia

Major: *Chemical Engineering*

Dissertation: Guiding the Design of Stable Therapeutic Protein-Polymer Conjugates Using Molecular Dynamics Simulations

Dissertation Chair: Janani Sampath

Zhenxiong Jiang

Major: *Microbiology and Cell Science*

Dissertation: Bacterial Polyploidy and Genome Plasticity: Adaptive Roles Under Environmental Stress

Dissertation Chair: Xin Wang

Beining Jin

Major: *Chemistry*

Dissertation: Developing Nuclear Magnetic Resonance Strategies to Study Function-Related Dynamics of G Protein-Coupled Receptors

Dissertation Chair: Matthew Eddy

Ladan Gocman Jiracek

Major: *Electrical and Computer Engineering*

Dissertation: Thinned and Reliable Liquid-Crystal-Polymer-Based Neural-Interface Technology

Dissertation Chair: Jack William Judy

Johnathon Markeith Johnson

Major: *Chemistry*

Dissertation: Synthesis, Characterization, and Surface Reactions of Late Transition Metal Complexes as Resists for Extreme Ultraviolet Lithography, and Precursors for Focused Ion Beam-Induced Deposition

Dissertation Chair: Lisa McElwee-White

Lisa Gawronski Johnson

Major: *Nursing Sciences*

Dissertation: Charting the Course of Pediatric Obesity Care: Early-Childhood Prevention Evidence and Electronic Health Record-Based Evaluation of Guideline Adherence in Primary Care

Dissertation Chair: Gail Keenan

Shayce Susan Gail Johnston

Major: *Counseling and Counselor Education*

Dissertation: Exploring the Lived Experiences and Mental Health of Jockeys and Exercise Riders Working in the Horse Racing Industry in the United States

Dissertation Chair: Sondra Lori Smith

Dissertation Co-chair: Amber Brisa Moss

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

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 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

Nidhi Kalia

Major: *Chemistry*

Dissertation: Exploring the Catalytic Mechanisms and Specificity of Biomedically Important Viral and Bacterial RNA Processing Enzymes

Dissertation Chair: Michael Harris

Krishnaprasad Kalivelampatti Arumugam

Major: *Mechanical Engineering*

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

Dissertation Chair: Sivaramakrishnan Balachandar

Anandi Karn

Major: *Plant Breeding*

Dissertation: Development of Biotechnological Tools and Protocols for Implementation of Molecular Breeding in Southern Highbush Blueberry

Dissertation Chair: Patricio Ricardo Muñoz del Valle

Simranjot Kaur

Major: *Agronomy*

Dissertation: Systems Approach to Improve the Seedcane Quality and Stand Establishment in Sugarcane

Dissertation Chair: Hardev Singh Sandhu

Dissertation Co-chair: Katia Viana Xavier

Rasheed Kibria

Major: *Electrical and Computer Engineering*

Dissertation: Static Analysis-Based Security Verification on Modern System-on-Chips

Dissertation Chair: Mark Tehranipoor

Seo Young Kim

Major: *Research and Evaluation Methodology*

Dissertation: Tagging Knowledge Components to the High-School Probabilities and Statistics Questions Using a Large Language Model

Dissertation Chair: David Miller

Lydia Lazar Kivrak

Major: *Geology*

Dissertation: Preservation of Organic Biosignatures in Mars-Analog Environments and Detectability With Current and Future Space-Flight Technology

Dissertation Chair: Amy Williams

Dimuthu Nirmani Kodituwakku

Major: *Chemistry*

Dissertation: Hybrid Approaches Combining Molecular Dynamics and Machine Learning for the Study of Molecules

Dissertation Chair: Adrian Roitberg

Rahul Koottanil Haridasan

Major: *Chemistry*

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

Dissertation Chair: Keith Searles

Sayan Kundu

Major: *Chemistry*

Dissertation: Development of New Molecular Tools and Methods for Probing Cell Surface Glycosylphosphatidylinositol (GPI)-Anchored Proteins and Their Application

Dissertation Chair: Zhongwu Guo

Lauren Frances Kunselman

Major: *Zoology—Animal Molecular and Cellular Biology*

Dissertation: Investigating the Mechanisms Underlying Intraspecific Variation of Regenerative Ability in the Annelid *Capitella teleta*

Dissertation Chair: Elaine Seaver

Yi Lai

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

Dissertation: Exploring Teacher Vulnerability in EFL Classrooms: A Case Study of a Chinese High School English Teacher

Dissertation Chair: Sara Ashley Smith

Christopher Lam

Major: *Astronomy*

Dissertation: Exoplanets in Galactic Space and Time

Dissertation Chair: Sarah Ballard

Taylor Rose Lansberry

Major: *Biomedical Engineering*

Dissertation: Engineering a Multi-Therapeutic, 3D-Printed Scaffold for Local Immunoprotection and Favorable Engraftment of Pancreatic Islets for Treatment of Type 1 Diabetes

Dissertation Chair: Cherie Stabler

Charles S. Lazimi

Major: *Biomedical Engineering*

Dissertation: Investigating the Interplay Between T-Cell Infiltration, ROS Detoxification, and Pancreatic Beta Cell Dysfunction in Type 1 Diabetes Pathogenesis

Dissertation Chair: Edward Phelps

Rowoon Lee

Major: *Music Education*

Dissertation: The Effects of Exposure to Gugak on Its Preference of Fourth and Fifth Grade Children

Dissertation Chair: Megan Maureen Sheridan

Isabel Samantha Lehenbauer

Major: *Mechanical Engineering*

Dissertation: Robotic Fish With Multi-Functional Artificial Muscles

Dissertation Chair: Patrick Musgrave

Hazel C. Levy

Major: *Higher Education Administration*

Dissertation: Geography of Opportunity in Higher Education: Measuring the Reach of the State University System Schools

Dissertation Chair: Lindsay Byron

Piaopiao Li

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Exploring the Interplay Between Social Determinants of Health and Multimorbidity in Veterans: A Microsimulation Modeling Approach

Dissertation Chair: Hui Shao

Dissertation Co-chair: Almut Winterstein

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

Yongqiu Li

Major: *Medical Sciences—Biomedical Informatics*

Dissertation: Assessing the Real-World Effectiveness and Geographic Uptake Patterns of the 9-Valent HPV Vaccine Through Target Trial Emulation and Geospatial Modeling

Dissertation Chair: Yi Guo

Dissertation Co-chair: Mei Liu

Suzanne Elizabeth Lightsey

Major: *Biomedical Engineering*

Dissertation: Engineered Systems to Investigate the Role of Extracellular Matrix Cues on Natural Killer Cell Infiltration

Dissertation Chair: Blanka Sharma

Nitat Limpongsai

Major: *Curriculum and Instruction—Science Education*

Dissertation: Exploring the Beliefs of Thai High School Astronomy Teachers and the Translation Into Their Teaching Practices

Dissertation Chair: Rose Marie Pringle

Erica Michelle Lindbeck

Major: *Electrical and Computer Engineering*

Dissertation: Rapid Personalized Musculoskeletal Modeling and Simulation of the Human Hand Using Deep Learning

Dissertation Chair: Joel Harley

Emily Elizabeth Lindner

Major: *Animal Sciences*

Dissertation: Long-Term Effects of Dairy Calf Social Housing on Heifer Development, Behavior, and Production

Dissertation Chair: Emily Miller-Cushon

Lauren Jean Lindow

Major: *Agricultural and Biological Engineering*

Dissertation: A Digital Twin Decision-Support Tools for Hydroponic Shipping Container Farms

Dissertation Chair: Ziyet Boz

Dissertation Co-chair: Ying Zhang

Jia-Yi Ling

Major: *Agricultural and Biological Engineering*

Dissertation: Streamflow Forecasting in West-Central Florida Using Machine Learning

Dissertation Chair: Nikolay Bliznyuk

Ania Lauren L. Lipat

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: Investigating the Potential of Gait-Predicted Age Difference as a Novel Aging Biomarker

Dissertation Chair: Yenisel Cruz-Almeida

Qipeng Liu

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

Dissertation: How Building Occupants Perceive and Utilize Information From Dynamic Intelligent Wayfinding Guidance Systems

Dissertation Chair: Rui Liu

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

Yuncong Liu

Major: *Electrical and Computer Engineering*

Dissertation: Nanophotonics and Optomechanical Devices in Silicon Carbide and Other Wide-Bandgap Materials

Dissertation Chair: Philip Feng

Marley Palmer Livesay

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: The Role of the FOXK Subfamily in KSHV Infection

Dissertation Chair: Bernadett Papp

Diana P. Łomowska-Keehner

Major: *Chemistry*

Dissertation: Screening and Engineering of Bacterial Diterpene Synthases and Investigation of Bioactive Diterpenoid Biosynthesis

Dissertation Chair: Jeffrey Daniel Rudolf

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 Diaza

Dissertation Co-chair: Mario Binelli

Jean-Maude Louizias

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Effects of Cover Crop Species Proportion on Weed and Plant-Parasitic Nematode Suppression in Sunn Hemp and Sorghum-Sudangrass Bicultures

Dissertation Chair: Carlene Chase

Matthew W. Loving

Major: *Romance Languages—French and Francophone Studies*

Dissertation: Fantastic Distortion: Charles Nodier's Literary Theories on the Cognitive Foundations of the Fantastic

Dissertation Chair: Brigitte Weltman-Aron

Kelsey Danielle Lunsford

Major: *Mass Communication*

Dissertation: Identifying Support Needs After Pregnancy Loss: Insights From Patient Narratives

Dissertation Chair: Huan Chen

Arun M. Madhu

Major: *Physics*

Dissertation: Sensitivity Projections for Lepton Flavor Violating Neutrinoless Decay of Tau Lepton to Three Muons in the Z to Tau Tau Channel

Dissertation Chair: Andrey Korytov

Dissertation Co-chair: Yuta Takahashi

Swarnali Mahmood

Major: *Soil and Water Sciences*

Dissertation: Soil Health Assessment and Interpretation From Plot to Continental Scales

Dissertation Chair: Yang Lin

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 Grant

Rose Elaine Huzil Mandolia

Major: *Classical Studies*

Dissertation: The Court and the Cloister: Virgilian Intertextuality in Walahfrid Strabo's *de Imagine Tetrici* and *Hortulus*

Dissertation Chair: Victoria Emma Pagan-Wolpert

Pavan Kumar Mangipudi

Major: *Electrical and Computer Engineering*

Dissertation: Radio Access Network Optimizations for Beyond 5G Networks

Dissertation Chair: Janise McNair

Byron Roberto Manzanero

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Deciphering the Mechanism of Resistance in the Genus *Lactuca* Against Bacterial Leaf Spot

Dissertation Chair: Germán Sandoya Miranda

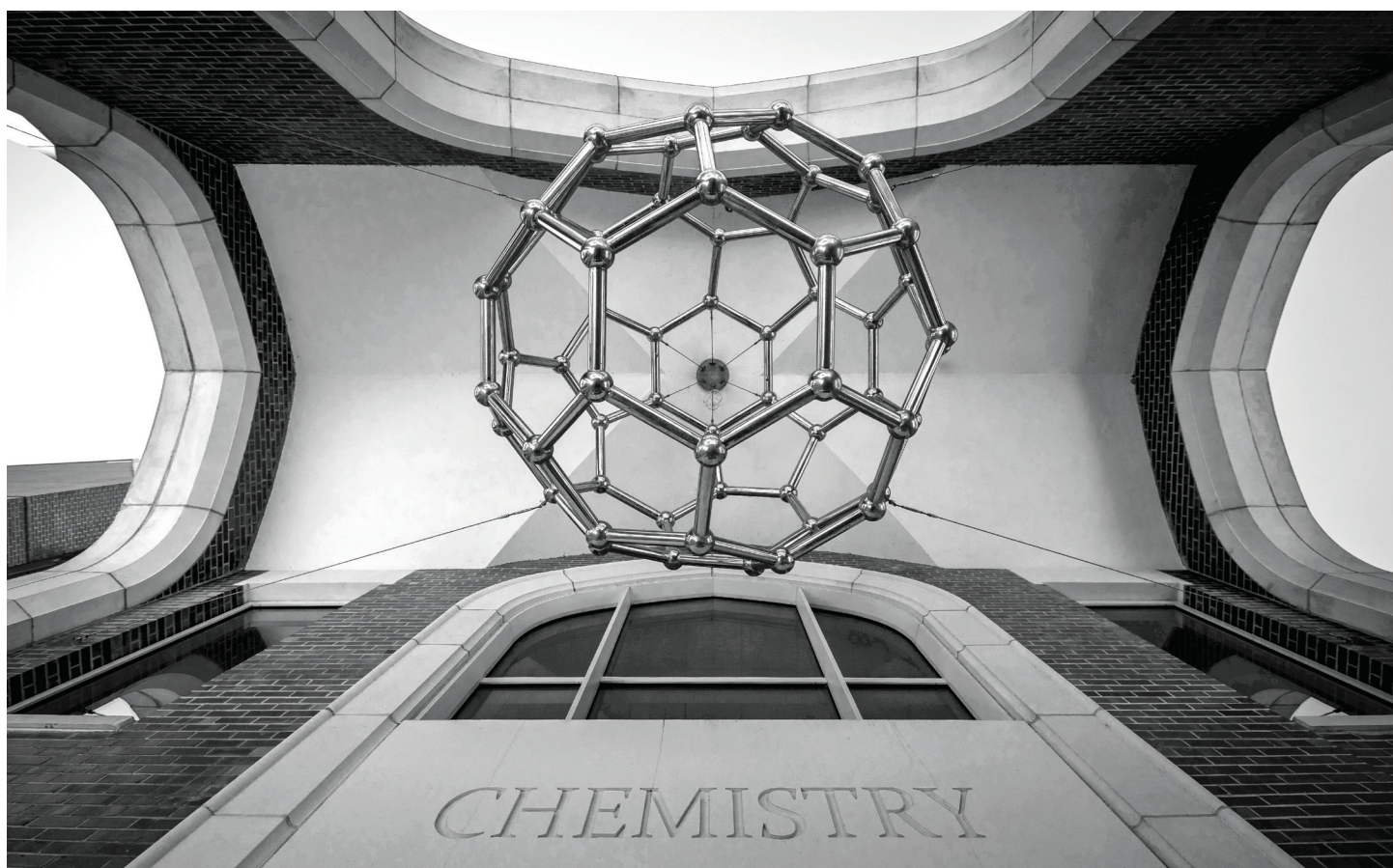
Adeel Manzoor

Major: *Animal Sciences*

Dissertation: Inactivation Kinetics of *Salmonella*, Shiga-Toxin Producing *Escherichia coli* and *Listeria monocytogenes*

During Sous Vide Cookery

Dissertation Chair: Jason Scheffler



Francisco Marchi

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Epigenomic Diagnosis and Prognosis of Acute Myeloid Leukemia

Dissertation Chair: Jatinder Lamba

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

Daniel Onan Martinez Cabrera

Major: *Animal Sciences*

Dissertation: Heat Stress Impacts Methane Emissions Throughout the Life Cycle of Dairy Cows

Dissertation Chair: Geoffrey Dahl

Christopher M. Mauldin

Major: *Mechanical Engineering*

Dissertation: Estimation of Tractive Performance via Discontinuous, Internal Measurement of Deflection for Agricultural Tire on Soft Surfaces

Dissertation Chair: Carl Crane III

Dissertation Co-chair: John Kenneth Schueller

Sarah Elizabeth McComic

Major: *Entomology and Nematology*

Dissertation: Development of Natural and Synthetic Insecticides With Novel Modes of Action

Dissertation Chair: Daniel Swale

Karen Elizabeth McIlvoy

Major: *Anthropology*

Dissertation: The Importance of Intra-Site Variability in Data Analysis on Southern Plantations as Demonstrated by the Kingsley Plantation Slave Cabins

Dissertation Chair: James Davidson

Kelley Lobean McKinley

Major: *Microbiology and Cell Science*

Dissertation: Host-Microbe Interfaces Across Tissues and Time: Oral-Tumor Links In PDAC and HLA-Shaped Gut

Microbiomes in Early Childhood

Dissertation Chair: Eric Triplett

Patrick Henry McLoughlin Jr.

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Analyzing the Impact Recycled Wastewater Has on Warm-Season Turfgrass Performance, Nutrient Leaching and Biological Communities

Dissertation Chair: Marco Schiavon

Saryvoudh Anthony Mech

Major: *Chemistry*

Dissertation: Expanding the CdTe Magic-Size Cluster Library and Testing Its Viability as a Colloidal Solution for Solar Cell Fabrication

Dissertation Chair: Chenjie Zeng

Dorothea Vera Megarani

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

Dissertation: Tilapia Lake Virus (TiLV) in Aquaculture: Improved Molecular Diagnostic Tool, Pathogenesis, and the Effect of Environmental Toxin on Disease Outcome

Dissertation Chair: Kuttichantran Subramaniam

Dissertation Co-chair: Julie Moore

Alysha Lynn Michaelson

Major: *Medical Sciences—Neuroscience*

Dissertation: Therapeutic Approaches to Preserve and Then Restore Respiratory Function After Cervical Spinal Cord Injury

Dissertation Chair: Gordon Mitchell

Alyssa Richelle Mickle

Major: *Medical Sciences—Neuroscience*

Dissertation: Closed-Loop Epidural Stimulation: Respiratory Motor Plasticity and Neural Mechanisms

Dissertation Chair: Erica Arden Dale

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

Mohammad Bin Monjil

Major: *Electrical and Computer Engineering*

Dissertation: Low Cost SEM Imaging for Trust Assurance in Heterogeneous Integration Using Generative AI

Dissertation Chair: Mark Tehranipoor

David Antonio Moreira Calix

Major: *Entomology and Nematology*

Dissertation: Sustainable Nematode Management Practices in High-Value Crops: Organic Strawberries in Florida and Watermelons in Honduras

Dissertation Chair: Johan Desaeager

Zane Garrett Moreland

Major: *Medical Sciences—Pharmacology and Therapeutics*

Dissertation: Biomolecular Condensation of a Myosin Motor in Hearing and Deafness

Dissertation Chair: Jonathan Bird

Jennifer DeGraff Moses

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Design, Development, and Evaluation of an Online Training Module for Clinical Research Coordinators Using an Educational Design Research Approach

Dissertation Chair: Kara Marie Hopkins Dawson

Dissertation Co-chair: Rob Moore

Nadia Mourad

Major: *Plant Molecular and Cellular Biology*

Dissertation: Sorbitol Dehydrogenase Aids Kernel Growth and Integrates Carbohydrate Metabolism With Redox in the Hypoxic Endosperm

Dissertation Chair: Karen Koch

Nasrin Nahar

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

Dissertation: An Integrated Approach to Understanding Pedestrian Crashes in Underserved Communities: Factors, Implications, and Interventions

Dissertation Chair: Emre Tepe

Dissertation Co-chair: Ilir Bejleri

Mukundhan Narasimhan

Major: *Civil Engineering*

Dissertation: Sequential Truck Platoon Formation in Mixed Traffic Using Multiple Spring Mass Damper Systems: Modelling, Analysis, Parameter Estimation, and Experiments

Dissertation Chair: Lili Du

Dissertation Co-chair: Scott Stuart Washburn

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 Smith

Ovidiu Nechita

Major: *Mathematics*

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

Dissertation Chair: William Ward Hager

Matthew Alan Newton

Major: *Anthropology*

Dissertation: An Underwater Archaeological Landscape off the Northern Gulf Coast of Florida

Dissertation Chair: Kenneth Edward Sassaman Jr.

Valerie T. Nguyen

Major: *Entomology and Nematology*

Dissertation: Building Genomic Resources of *Anopheles squamosus*, an Understudied Malaria Vector in Zambia

Dissertation Chair: Yoosook Lee

Wenbo Ning

Major: *Chemistry*

Dissertation: Discovery and Mechanistic Study of Bacterial Diterpenoids

Dissertation Chair: Jeffrey Daniel Rudolf

Cristian Nino

Major: *Mechanical Engineering*

Dissertation: Distributed Target Tracking for Second-Order Nonlinear Systems

Dissertation Chair: Warren Dixon

Jamie Njue

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

Dissertation: #Walkingredflag: A Thematic Analysis of Instagram Content Portraying Unhealthy Romantic Relationships

Dissertation Chair: Sondra Lori Smith

Dissertation Co-chair: Amber Brisa Moss

Anna Rushin Nulk

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Metabolic Adaptations in the Exocrine Pancreas in Type 1 Diabetes

Dissertation Chair: Matthew Merritt

Alyssa Mariah Nunez

Major: *Sociology*

Dissertation: Integration of Midwives Across the United States: Examining the Impact on Access, Equity, and Maternal-Newborn Outcomes

Dissertation Chair: Charles Peek IV

Mary Ifeoma Nwanua

Major: *Civil Engineering*

Dissertation: Drones Overhead: A Phenomenological Study of Construction Workers' Attitudes and Vulnerability in Shared Workspaces

Dissertation Chair: Denise Simmons

Raymond Adjei Opoku

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: AI, STEM, and Belief in the Possible: Exploring AI Self-Efficacy and Outcome Expectations Among Adolescents in an Informal Learning Environment

Dissertation Chair: Wanli Xing

Dissertation Co-chair: Pavlo Antonenko

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

Nia Starr Page

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

Dissertation: (Re)Claiming Self as Instrument: A Qualitative Investigation Exploring the Lives and Stories of Black Women Counselor Educators Who Use the Counselor Preparation Classroom as a Counterspace

Dissertation Chair: Ana Puig

Chad R. Palmer

Major: *Interdisciplinary Ecology—Wildlife Ecology and Conservation*

Dissertation: Positive Density-Dependent Population Dynamics in Reef Building Oysters: A Review of the Evidence and Empirical Findings

Dissertation Chair: Edward Camp

Victoria Renae Palzkill

Major: *Health and Human Performance—Exercise Physiology*

Dissertation: Advancing Functional Assessment and Mechanistic Understanding of Skeletal Muscle Pathology in Peripheral Artery Disease

Dissertation Chair: Terence Ryan

Jinhua Park

Major: *Health and Human Performance—Biobehavioral Science*

Dissertation: Neural Oscillations Underlying Pain in Autistic Adults

Dissertation Chair: Stephen Andrew Coombes

Dennis Ray Parnell Jr.

Major: *Engineering Education*

Dissertation: Chipping Away at Barriers: Informing the Design of Augmented Reality Environments to Shape Semiconductor Career Interest

Dissertation Chair: Jeremy Magruder Waisome

Normarieli Marie Passalacqua Alvarado

Major: *Materials Science and Engineering*

Dissertation: Oxidation-Induced Epitaxy of $\text{Si}_{1-x}\text{Ge}_x$ on Si and Applications of $\text{Si}_{1-x}\text{Ge}_x/\text{Si}$ Superlattices in High-Speed Resonators

Dissertation Chair: Kevin Jones

Sravani Pasula

Major: *Agricultural Education and Communication*

Dissertation: Exploring and Assessing the Perceptions of Emerging Adults Toward Careers in Commercial Urban Agriculture in Florida

Dissertation Chair: Laura Anne Sanagorski-Warner

Dissertation Co-chair: John Diaz

Andrew Kix Patterson

Major: *Mass Communication*

Dissertation: How We Report Today is the Historical Representation of Tomorrow: A Past, Present and Future Look at LGBTQ+ Representation in News Photography, Historical Remembrance and Ethical Reporting

Dissertation Chair: Roxane Coche

Joshua David Perlin

Major: *Psychology*

Dissertation: *Lex Orandi, Lex Narrandi*: High and Low Church Socioecologies and the Narrative Drama of the Christian Self

Dissertation Chair: Erin Westgate

Prea K. Persaud

Major: *Religion*

Dissertation: God Must Be a Trini: Hinduism as a Caribbean Religion

Dissertation Chair: Vasudha Narayanan

Daniel Joseph Petti

Major: *Agricultural and Biological Engineering*

Dissertation: Tightly-Integrated Robotic and Deep Learning Systems to Advance Automated Phenotyping and Precision Breeding

Dissertation Chair: Charlie Changying Li

Ketsira Pierre

Major: *Plant Pathology*

Dissertation: Exploration of Small Molecules for Managing Bacterial Spot of Tomato (BST) and Evaluation of the Effects of Soil Salinity on Tomato Plant Growth and BST

Dissertation Chair: Shouan Zhang

Liliane Poincon

Major: *Interdisciplinary Ecology—Geography*

Dissertation: National Women in Agriculture Association US Chapters: Evaluating the Process and the Outcomes of Women's Empowerment

Dissertation Chair: Anita Anantharam

Mark Edward Porter

Major: *Plant Breeding*

Dissertation: Expanding the Toolbox for Breeding Strawberries With Better Flavor

Dissertation Chair: Seonghee Lee

Shokoufeh Pourshahabi

Major: *Agricultural and Biological Engineering*

Dissertation: Quantifying Economic Vulnerabilities Induced by Interdependent Networks

Dissertation Chair: Rachata Muneeppeerakul

Tamanna Afrin Prami

Major: *Nutritional Sciences*

Dissertation: Tissue-Specific Regulation and Therapeutic Targeting of Iron Transporters in Iron Overload Disorders

Dissertation Chair: Mitchell Knutson



Renee Alexandra Price

Major: *Environmental Engineering Sciences*

Dissertation: Designing for Complexity: Hydrologic Variability, Monitoring Strategies, and Ecological Recovery in Southeastern U.S. Wetlands

Dissertation Chair: David Andrew Kaplan

Chenlu Pu

Major: *Civil Engineering*

Dissertation: Bridging Data-Centric Methods and Physics-Informed AI Model Development for Traffic Anomaly Detection and Prediction

Dissertation Chair: Lili Du

Andres Pulido Silva

Major: *Mechanical Engineering*

Dissertation: Integrating Sensor Measurements for Uncertainty-Driven Path Planning, Control and Trajectory Prediction

Dissertation Chair: Douglas Edward Spearot

Dissertation Co-chair: Jaejeong “Jane” Shin

Jaber Qezelbash Chamak

Major: *Industrial and Systems Engineering*

Dissertation: Deep Learning Models for Improved Decision-Making During Childbirth

Dissertation Chair: Karen Theodora Hicklin

Xiaoda Qu

Major: *Statistics*

Dissertation: Kernel Stein’s Method on Riemannian Manifolds

Dissertation Chair: Baba Vemuri

Dissertation Co-chair: John Doss

Saman Rabiei

Major: *Soil and Water Sciences—Hydrologic Sciences*

Dissertation: Novel Remote Sensing and AI Techniques for Real-Time Soil Moisture Monitoring Using Soil Survey Data

Dissertation Chair: Ebrahim Babaeian

Dissertation Co-chair: Sabine Grunwald

Md Latifur Rahman

Major: *Electrical and Computer Engineering*

Dissertation: Run-Time Security Monitoring in Heterogeneously Integrated System-in-Packages

Dissertation Chair: Mark Tehranipoor

Andrea Sofia Ramirez-Mata

Major: *Medical Sciences—Genetics*

Dissertation: Description of HIV Social Behavior Using a Novel Phylogenetic Model of Structured Co-Evolution

Dissertation Chair: Marco Salemi

Neha Rawal

Major: *Physics*

Dissertation: Higgs Boson Mass Measurement Using $H \rightarrow ZZ \rightarrow 4\ell$ Channel With the CMS Detector and Assessing the Longevity of CMS Cathode Strip Chambers via in situ Gas Gain Stability Monitoring

Dissertation Chair: Andrey Korytov

Isabel Rayo Castrejón

Major: *Counseling and Counselor Education—Marriage and Family Counseling*

Dissertation: A Critical Narrative Inquiry Into Undocumented Immigrant Mothers’ Experiences in Detention Centers

Dissertation Chair: Ana Puig

Jenna Elizabeth Reimer

Major: *Interdisciplinary Ecology—Soil and Water Sciences*

Dissertation: Sources, Rates, and Fates: Nitrogen Cycling in the Guana Estuary

Dissertation Chair: Ashley Smyth

Dissertation Co-chair: AJ Reisinger

Victoria Ribeiro Rodrigues

Major: *Electrical and Computer Engineering*

Dissertation: Parametric Decomposition of Respiratory Waveforms for Understanding Load Compensation and Non-Invasive Work of Breathing Assessment

Dissertation Chair: Nicholas Napoli

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 Jones

Alex Rodriguez Calderon

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Digital Agriculture Approaches for Monitoring Pest Dynamics in Strawberry Fields

Dissertation Chair: Nathan Boyd

Viviana Beatriz Rojas Bonzi

Major: *Wildlife Ecology and Conservation—Tropical Conservation and Development*

Dissertation: An Integrated Assessment of Hunting Activity in Protected Areas of the Paraguayan Dry Chaco

Dissertation Chair: Vanessa Kristin Hull

Dissertation Co-chair: Lyn Clarke Branch

Nykki Damiana Ross

Major: *Microbiology and Cell Science*

Dissertation: Investigating the Role of Transfer RNA Genes in *Shigella* Phage Sf14

Dissertation Chair: Sarah Doore

Erika Rothberg

Major: *English*

Dissertation: The Color of Trauma: Using Color to Understand American Identity in Crises

Dissertation Chair: Anastasia Maria Ulanowicz

Cecilia Rubert Heller

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Roots of Change: How Rootstocks Help Build Resilience in Blueberry Physiology and Production

Dissertation Chair: Gerardo Nunez

Dissertation Co-chair: Jeffrey Williamson

Dipayan Saha

Major: *Electrical and Computer Engineering*

Dissertation: Large Language Model-Driven Security Verification of System-on-Chips

Dissertation Chair: Farimah Farahmandi

Jacob S. Salminen

Major: *Biomedical Engineering*

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

Dissertation Chair: Daniel Perry Ferris

Julia Irene Schwieg

Major: *Chemistry*

Dissertation: Quantifying Localized Heating in Plasmon-Induced Photothermal Catalysts

Dissertation Chair: Wei David Wei

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

Alexandria Stephanie Senetra

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Pharmacokinetic Evaluation of Select Kratom Alkaloids and Cannabinoids

Dissertation Chair: Christopher McCurdy

Dissertation Co-chair: Abhisheak Sharma

Shang Shi

Major: *Electrical and Computer Engineering*

Dissertation: Cross-Layer Security for Battery-Dependent Systems: Vulnerability Analysis and Defense From High-Level Synthesis to Li-ion BMS

Dissertation Chair: Mark Tehranipoor

Dissertation Co-chair: Farimah Farahmandi

Bryce D. Shirk

Major: *Biomedical Engineering*

Dissertation: *Plodia interpunctella*: A Novel Insect Platform for Rationally Designed Biopolymer Production

Dissertation Chair: Whitney Stoppel

Zhumagali Shomanov

Major: *Mathematics*

Dissertation: Partition and Overpartition Congruences

Dissertation Chair: Frank Garvan

Saurav Shrestha

Major: *Civil Engineering*

Dissertation: Probabilistic Approach for Optimization of Site Characterization and Spatial Analysis of Object Seabed Interactions

Dissertation Chair: Nina Stark

Davis Eugene Simmons

Major: *Psychology*

Dissertation: The Influence of Explicit Feedback Seeking on Employee Performance

Dissertation Chair: Nicole Gravina

Jennifer Alice Simonovich

Major: *Biomedical Engineering*

Dissertation: Indoleamine 2,3-Dioxygenase for Immunomodulation: Mechanistic Insights and Engineered Improvements

Dissertation Chair: Benjamin Keselowsky

Jasdeep Singh

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Developing and Evaluating Frameworks to Lift the Ceiling of Predictability in Sorghum Breeding by Fusing Symbolic and Sub-Symbolic AI

Dissertation Chair: Carlos Messina

Komalpreet Singh

Major: *Environmental Engineering Sciences*

Dissertation: From Reactive to Proactive Public Health: Assessing Coastal Vibriosis Risk With Satellite Data Using Machine Learning and GeoAI

Dissertation Chair: Antarpreet Singh Jutla

Ravinder Singh

Major: *Soil and Water Sciences*

Dissertation: Optimizing Nitrogen and Phosphorus Management in Potato Production Using Biostimulant and Remote Sensing Tools

Dissertation Chair: Lakesh Sharma

Dissertation Co-chair: Lincoln Zotarelli

Pablo Sipowicz

Major: *Plant Breeding*

Dissertation: Optimizing Prediction Models in Annual and Perennial Forage Species

Dissertation Chair: Esteban Fernando Rios

Bassam M. Smadi

Major: *Biomedical Engineering*

Dissertation: Advanced Regenerative Peripheral Nerve Interfaces

Dissertation Chair: Jack William Judy

Audrey Culver Smith

Major: *Geography—Tropical Conservation and Development*

Dissertation: Ethiopia's Evolving Landscapes: Regional Dynamics of Urban Expansion, Biodiversity, and Forest Loss

Dissertation Chair: Jane Southworth

Francklin Brice Soung Iballa

Major: *Public Health—One Health*

Dissertation: Characterization of *Vibrio cholerae* Bacteriophages and Their Role in the Evolution of *Vibrio cholerae* and Cholera Outbreaks in Africa

Dissertation Chair: Afsar Ali

Dissertation Co-chair: J. Glenn Morris

Katie Alanna Spargo

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

Dissertation: Lived Experiences of Supervision for Novice Counselors Who Are Religious Trauma Survivors

Dissertation Chair: Sondra Lori Smith

Dissertation Co-chair: Amber Brisa Moss

Martina Speranza

Major: *Sociology—Women's/Gender Studies*

Dissertation: "We Are the 1%" Transgender People Work Experiences for the Argentinean State

Dissertation Chair: Rebecca Annice Hanson

Dissertation Co-chair: Kendal Broad

Deanna Nagle Stentiford

Major: *Higher Education Administration*

Dissertation: A Retrospective Study of Retention, Persistence, and Completion of Gateway Mathematics for Online Intermediate Algebra Students

Dissertation Chair: Justin Ortagus

Siobhan Alise Elizabeth Summers

Major: *Anthropology*

Dissertation: Assessing Biological Characteristics Associated With Talar Morphology

Dissertation Chair: Valerie Burke DeLeon

Xiao Sun

Major: *Political Science*

Dissertation: Gender-Blind Welfare in East Asia? Family Policies in Japan, South Korea, and China

Dissertation Chair: Aida Hozic

Kelley Annette Taksier

Major: *Special Education*

Dissertation: Self-ish: An Anarchival Autoethnography

Dissertation Chair: Holly Lane

Dissertation Co-chair: Kakali Bhattacharya

Shams Tarek

Major: *Electrical and Computer Engineering*

Dissertation: Large Language Model and Formal Property Driven Security Verification of Systems-on-Chips (SoCs)

Dissertation Chair: Farimah Farahmandi

Arslan Tariq

Major: *Animal Molecular and Cellular Biology*

Dissertation: Heat Stress: An Environmental Challenge to Immune Resilience and Health in Dairy Cows

Dissertation Chair: John Bromfield

Manasa Tatipalli

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Model-Informed Dose Selection in Pediatrics: Integrating Population and Physiologically Based Pharmacokinetic Modeling With Case Studies of Spironolactone and Bilastine

Dissertation Chair: Francine Johansson Azeredo

Alyssa Anne Terry

Major: *Rehabilitation Science—Neuromuscular Plasticity*

Dissertation: The Effects of Sour Taste and Carbonation on Swallowing Perception, Safety, and Efficiency in Parkinson's Disease

Dissertation Chair: Karen Hegland

Natalia Sofia Teryda

Major: *Interdisciplinary Ecology—Wildlife Ecology and Conservation*

Dissertation: Identifying Strategies for Conservation of the Marine Turtles in Argentina and Uruguay, South America

Dissertation Chair: Raymond Carthy

Rufus Chukwudi Theophilus-Ugwuanyi

Major: *Nutritional Sciences*

Dissertation: Antimicrobial Resistance Gene Acquisition and Transmission in the Infant Gut Microbiome and the Role of Diet

Dissertation Chair: Diana Taft

Alina Sergeyevna Timshina

Major: *Environmental Engineering Sciences*

Dissertation: Sources and Fate of Per- and Polyfluoroalkyl Substances (PFAS) in Municipal Solid Waste Streams and Best Management Practices to Reduce Their Dispersal to the Environment

Dissertation Chair: John Alfred Bowden

Jose Gregorio Torrellas Jr.

Major: *Medical Sciences—Neuroscience*

Dissertation: Revealing the Neuroimmune Interactions in LRRK2 Associated PD in the Context of Potent Inflammatory Immune Signaling

Dissertation Chair: Paramita Chakrabarty

Dissertation Co-chair: Matthew LaVoie

Jordan N. Traff

Major: *Anthropology*

Dissertation: A Careful Balance: The Impacts of Polyspecific Association on the Daily Activities and Diet Choice in a West African Colobine

Dissertation Chair: David Daegling

Kathryn Grace Trimm

Major: *Mechanical Engineering*

Dissertation: Advancing Methane Utilization Through Chemical Looping Technologies

Dissertation Chair: Jonathan Scheffe

Yekatit G. Tsehayu

Major: *Religion*

Dissertation: Women in Islamic Revivalist Movements: *Yetemarech* Ethiopian Muslim as Agents of Change

Dissertation Chair: Terje Østebo

Shelby Tyler

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Synthesis and Biological Evaluation of Dual-Acting Sigma Receptor Ligands and Dopamine Transporter Ligands for the Treatment of Cocaine Use Disorder

Dissertation Chair: Christopher McCurdy

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 Mulvaney

Miguel Vasconez

Major: *Food Science*

Dissertation: Development of a Widely Targeted Method for Fast, Accurate and Sensitive Flavor Profiling of Fruits and Its Application in Mango Cultivars to Assist in Breeding of New Consumer-Preferred Varieties

Dissertation Chair: Yu Wang

Xingchen Wan

Major: *Chemistry*

Dissertation: Palladium Catalyzed Enantioselective Functionalizations Across Unsaturated Carbon-Carbon Bonds

Dissertation Chair: Aaron Aponick

Jianfeng Wang

Major: *Civil Engineering*

Dissertation: Development of a Test to Measure Concrete Permeability Admixture Effectiveness

Dissertation Chair: Kyle Riding

Xiaoshan Wang

Major: *Electrical and Computer Engineering*

Dissertation: Privacy Preservation in Distributed Learning Systems

Dissertation Chair: Tan Wong

Dissertation Co-chair: John Shea

Alexander Rajender Webber

Major: *Computer Science*

Dissertation: Distributed Agent-Based Simulations Utilizing the Actor Model

Dissertation Chair: Alin Viorel Dobra

Alexander Wilcher

Major: *Electrical and Computer Engineering*

Dissertation: Metaconductors and Micromachined RF Devices for Next-Generation High-Speed and 6G Systems

Dissertation Chair: Yong-Kyu Yoon

Coleson Friedrich Wrege

Major: *Fisheries and Aquatic Sciences*

Dissertation: Prescribed Fire Effects on Wetland Macroinvertebrate Communities, Short-Term Production and Insect Emergence, and Wetland Nutrients

Dissertation Chair: Lindsey Reisinger

Zexu Xi

Major: *Curriculum and Instruction*

Dissertation: Translanguaging Practice of Chinese International Graduate Students in English Academic Writing

Dissertation Chair: Danling Fu

Changhao Xiong

Major: *Biomedical Engineering*

Dissertation: Neuronal Mechanisms of Visual Attention: Insights From Combining Machine Learning With Multimodal Neuroimaging

Dissertation Chair: Mingzhou Ding

Yingchen Xu

Major: *Food and Resource Economics*

Dissertation: Three Essays on Bundling Financial Instruments for Smallholder Farmers

Dissertation Chair: Patrick Ward

Danting Yang

Major: *Epidemiology—Data Sciences Epidemiology*

Dissertation: A Multifactorial Approach to Assessing Venous Thromboembolism Risk in Cancer Survivors: Integrating Genetic, Physiological, and Social Determinants

Dissertation Chair: Sai Zhang

Xuefen Yin

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Leveraging Model-Informed Drug Development Approaches to Enhance Regulatory Evaluation of Novel and Existing Drugs

Dissertation Chair: Stephan Schmidt

Hengxu You

Major: *Civil Engineering*

Dissertation: Physics-Informed Dexterity Operation in Construction Robotics: Bridging Perception, Decision-Making, and Adaptive Control

Dissertation Chair: Eric Du

Mahesh Yumnam

Major: *Civil Engineering*

Dissertation: Flexural Performance of Grouted Post-Tensioned Concrete Elements Treated With Corrosion Inhibitor

Dissertation Chair: Gary Consolazio

Ruben Dario Zapata

Major: *Medical Sciences—Biomedical Informatics*

Dissertation: Next-Gen Obstetric Care: A Precision Medicine Approach Using Machine Learning for Early Detection of Pregnancy Complications

Dissertation Chair: Dominick Lemas

Jose Martin Zapien-Macias

Major: *Horticultural Sciences—Horticultural Sciences*

Dissertation: Developing Strategies to Concentrate Fruit Ripening of Southern Highbush Blueberries (*V. corymbosum* L.)

Dissertation Chair: Gerardo Nunez

Dissertation Co-chair: Patricio Ricardo Muñoz del Valle

Randa Zeidan

Major: *Civil Engineering*

Dissertation: Durability and Self-Healing Mechanisms of Cracked Ultra-High Performance Concrete

Dissertation Chair: Kyle Austin Riding

Arezoo Zeinali

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

Dissertation: A Decision Support System for Optimizing Surface Material Selection in Healthcare Settings for Enhancing Cleanability and Infection Prevention

Dissertation Chair: Lisa Sundahl Platt

Eslam Muhammed Ahmed Zenhom

Major: *Physics*

Dissertation: A Semi-Merged All-Hadronic Search for Anomalous C_{2V} Couplings in VVH Production

Dissertation Chair: Philip Chang

Chi Zhang

Major: *Agricultural and Biological Engineering*

Dissertation: Developing a Physical Based Data-Driven Framework for Modelling Root Zone Soil Moisture and Optimizing Irrigation Scheduling

Dissertation Chair: Ziwen Yu

Dissertation Co-chair: Sandra Guzman

Mengzi Zhang

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Enhancing Growth, Quality, and Alkaloid Synthesis in Kratom (*Mitragyna speciosa*) Under Controlled Environments

Dissertation Chair: Jianjun Chen

Qingchen Zhang

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Pharmacokinetics, Drug Interactions, and Potential Endocrine Effects of Cannabidiol and Cannabis Exposure

Dissertation Chair: John Markowitz

Dianshu Zhao

Major: *Entomology and Nematology*

Dissertation: Gut Microbiome Regulation of Brain Metabolism Across Aging in *Drosophila melanogaster*: A Multi-Omics and Functional Study

Dissertation Chair: Chun Nin Wong

Luer Zhong

Major: *Biostatistics*

Dissertation: Methods for Analyzing scRNA-seq Data in Multi-Factor Designs

Dissertation Chair: Rhonda Bacher

Xiao Zhou

Major: *Physics*

Dissertation: The Effect of Population Diversity on Adaptation

Dissertation Chair: BingKan Xue

Xuanya Zhou

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

Dissertation: Storyworlding Against Deficit: Understanding Rural Chinese Students' Counter-Narratives

Dissertation Chair: Angela Marie Kohnen

Gustavo Castro de Rezende Zschaber

Major: *Civil Engineering*

Dissertation: Development of New Methods for Operational Analysis and Design of Arterial Weaving Segments

Dissertation Chair: Lily Elefteriadou

DOCTOR OF EDUCATION

Salah Ahmed Ali Algabli

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Exploring the Experiences of Arabic Language Faculty in Integrating Generative AI Tools Into Blended Learning: Benefits, Challenges, and Enhancements in Higher Education Instruction

Dissertation Chair: Kumar Olesova

Dissertation Co-chair: Swapna Kumar

Lynn Christine Antonio-Smith

Major: *Special Education*

Dissertation: The Effect of Pre-Service Training on Teacher Knowledge of Language and Reading Constructs and Knowledge of Dyslexia to Prevent Reading Difficulties in Elementary Schools in the Bahamas

Dissertation Chair: Vivian Gonsalves

Dissertation Co-chair: Matthew Kevin Burns

Charity Leigh Bancroft

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

Dissertation: Integrating Subjectivity Through Feminist Pedagogy: Transforming Literary Analysis in the College Classroom

Dissertation Chair: Angela Marie Kohnen

Kerri Ann Bartholomew

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

Dissertation: Designing for Change: A Practitioner Inquiry Into Teacher and Instructional Coach Growth Through a Professional Book Study

Dissertation Chair: Elyse Hambacher

Lauren Christine Batista

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Measuring the Informal Learning of White-Collar Hybrid Working Employees

Dissertation Chair: Swapna Kumar

John Michael Chaires

Major: *Educational Leadership*

Dissertation: A Qualitative Study on Understanding How Low-Income Students and Their Families in Contemporary Rural Contexts Describe the Value and Significance of Obtaining a High School Diploma

Dissertation Chair: Walter Balser

Kimberly Copeland

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Learning to Tutor in the Margins: A Case Study of Asynchronously Training Writing Tutors for Asynchronous Engagement

Dissertation Chair: Kara Marie Hopkins Dawson

Laura Dreyer

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

Dissertation: From Professional Learning to Pedagogical Practice: What Supports Teacher Change and What Gets in the Way?

Dissertation Chair: Vicki Vescio



Javier Dueñas

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Learning to Use Turnitin™: A Mixed Methods Study of College Writing Faculty Use and Learning of Turnitin™

Dissertation Chair: Swapna Kumar

Bakhtawar Ghaffar

Major: *Educational Leadership*

Dissertation: Balancing Rigor and Relevance: How Instructional and Assessment Practices in High-Performing New York City Schools Measure up to the Educational Demands of Generation Z

Dissertation Chair: Walter Balser

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 Ritzhaupt

Jenna Dawn Gonzalez

Major: *Special Education*

Dissertation: Supporting Students With Disabilities in Postsecondary Education: Students' Perspectives on the Disability Office Registration and Accommodation Process

Dissertation Chair: Erica McCray

Dissertation Co-chair: Hannah Mathews

Hong Hu

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

Dissertation: Hide to Seek: A Teacher-Principal's Journey of Conscientization

Dissertation Chair: Chonika Coleman King

Donald Donovan Jackson Sr.

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

Dissertation: Exploring Community Resources and Assets That Contribute to the Ongoing Development of Neighborhood Schools

Dissertation Chair: Vicki Vescio

Margeaux Johnson

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Artificial Intelligence in Higher Education: Intrapersonal Factors and Instructor Intent to Integrate in Teaching and Learning

Dissertation Chair: Pavlo Antonenko

Dissertation Co-chair: Nigel Arthur Newbutt

Rebecca T. Johnson

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

Dissertation: Examining Equity in Restorative Practices and Teacher Leadership Through a Collaborative Professional Learning Community

Dissertation Chair: Alyson Joyce Adams

Nadia Margaret Kotula

Major: *Higher Education Administration*

Dissertation: Improving the Transfer Experience: A Qualitative Case Study of HCC to USF Student Experiences

Dissertation Chair: Lindsay Byron

Adam Burton McMickell

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

Dissertation: At the Nexus of Theory and Practice: Exploring Principals' Cross-Boundary Collaboration During District-Level School Improvement Planning Workshops

Dissertation Chair: Alyson Joyce Adams

Erin McPheters

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Bridging the Distance: Support for Online International Students in Online Master's Programs

Dissertation Chair: Swapna Kumar

Dissertation Co-chair: Rob Moore

Rachel Ann Medrano

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Gamified Professional Development for Educators—Design, Implementation, and Evaluation

Dissertation Chair: Seyedahmad Rahimi

Angela Christina Miranda

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

Dissertation: Supporting General Education Teachers' Implementation of IEP Accommodations Through an Individualized Professional Learning Cycle: A Practitioner Inquiry

Dissertation Chair: Blake Mickle Beckett

Megan E. Mocko

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Statistical Anxiety, Self-Regulated Learning, and Achievement Goal Orientation in a Higher Education Second-Semester Statistics Course

Dissertation Chair: Wanli Xing

Monika Speth Richardson

Major: *Curriculum and Instruction—Computer Science Education*

Dissertation: Exploring Student Self-Efficacy in AP Computer Science Principles: An Action Research Study Using Merrill's First Principles of Instruction

Dissertation Chair: Albert Ritzhaupt

Dissertation Co-chair: Rui Tammy Huang

Amanda Elizabeth Rodda

Major: *Curriculum and Instruction—Computer Science Education*

Dissertation: Understanding Enrollment Barriers for Students With Multiple Disabilities in K-12 Computer Science Education: An Ecological Analysis

Dissertation Chair: Maya Israel

Dissertation Co-chair: Rui Tammy Huang

Margaret Shippey

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Faculty Learning in Community: A Collective Case Study in a Community College Context

Dissertation Chair: Swapna Kumar

Heidi M. Stone

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Technology-Enhanced, Inquiry-Based Science Intervention With English Language Learners in a Fourth-Grade Classroom

Dissertation Chair: Kara Marie Hopkins Dawson

Naomi O. Szekeres

Major: *Higher Education Administration*

Dissertation: Online Learning Adoption and Tuition Revenue

Dissertation Chair: Justin Ortagus

Jennifer Rebecca Thron

Major: *Educational Leadership*

Dissertation: How Do They Manage? Exploring the Lived Experiences of South Florida's Urban Immigrant Early Childhood Educators and the Role of Self-Care in Creating a Trauma-Informed Care Classroom Environment

Dissertation Chair: Chris Curran

Jia Xu

Major: *Curriculum and Instruction—Educational Technology*

Dissertation: Exploring the Integration of Artificial Intelligence Large Language Model Tools in Second Language Chinese Teaching in Higher Education in the US: A Case Study Approach

Dissertation Chair: Bojan Lazarevic

DOCTOR OF PLANT MEDICINE

Bianna Nicole Benitez

Lyuyi Chen

Alec J. Dunker

PROFESSIONAL DEGREES

THE WARRINGTON COLLEGE OF BUSINESS THE HOUGH GRADUATE SCHOOL OF BUSINESS

Dean Saby Mitra

DOCTOR OF BUSINESS ADMINISTRATION

Zachary Ellison

Elaine Richards

THE COLLEGE OF NURSING

Dean Shakira Henderson

DOCTOR OF NURSING PRACTICE

Mercy Mammen Geevarghese

Ashley Ann Valderrama

Sally Maria Whiteville

Marissa Nicole Lotfy

Victoria Danielle White

MaryAnn Patricia Wilson

Chris Alexandra Torres

THE COLLEGE OF PUBLIC HEALTH AND HEALTH PROFESSIONS

Dean Beth Virnig

DOCTOR OF OCCUPATIONAL THERAPY

Cristina Magda Abdo

Jordan Lynn Joseph

Lindsay Riley O'Laughlin

Samia Alamgir

Phoenix L. Kadzis

Anushka Vikrambhai Pandya

Tasleem Kareemah Al-As'ad

Elizabeth Kenyon

Juliet Liza Rapaport

Margaret Suzanne Bird

Jordan Nicole Kovacs

Hannah Stacie Reiter

Tonnae Theone Blagrove

Lena Lisa Krone

Liliana Salazar

Jamie Elizabeth Boehlein

Bethany Joy Kruger

Sydney Nicole Sancho

Ocean Jerriel Bolocon

Lauren Elizabeth Krumbholz

Liat E. Sauberman

Brooke Nicole Bonkowski

Gwendolyn May Lizarazo

Katie Christine Schmidt

Belinda Vanessa Bush

Grace Mary Loeffler

Marley Megan Seymour

Angela Tuyetnhi Cao

Sabrina Edith Lopez

Kayla Marie Stokes

Cedric Ann Cetoute

Lyndsay Mariah Luca

Avanna Nadia Tiwarie

Caroline Grace Cox

Tyler Quentin Martin

Cailyn Hope Toro

Teresa Maria Fernandez

Victoria Anne Martin

Nicole Lynne Troilo

Holley M. Fugatt

Kailey Alexa McDonald

Violetta Nicole Ventura

Darrion Keith Gant

Sophia Dalia Miller

Ariel Aaliah Vinson

Emma Faith Hawkins

Hailey Palmer Newgent

Michelle Inge Waldman

Mary Elizabeth Huntley

Ashley Heather Newman

Taylor Janai Williams

Sushmita Divya Jadubans

Daniela Nieves

Kayla Sloane Zweben

DOCTOR OF PHYSICAL THERAPY

Joshua Russell Starcher

Diplomas

Diplomas will be mailed to the graduates' diploma mailing address beginning in February of 2026.



Chain of Office

This custom-made ornament is worn with the president's regalia, symbolizing the authority and responsibilities of the office. The chain is engraved with the names and service years of the university presidents. The medallion's centerpiece is a 1.3-carat diamond.

Academic Mace

Dating back to the Middle Ages, the mace symbolizes strength and authority. The UF ceremonial mace was created for the university's sesquicentennial celebration in 2003. The 70-inch staff features an

alligator sitting atop a globe. The four pillars supporting the globe represent the four original colleges: Agriculture, Engineering, Law, and Liberal Arts. The staff is carved from cherry wood. The university's chief marshal, who leads all academic processions, carries the mace.



Caps and Gowns, An Explanation

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; 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.

