

# Commencement

**UF** | UNIVERSITY of  
FLORIDA

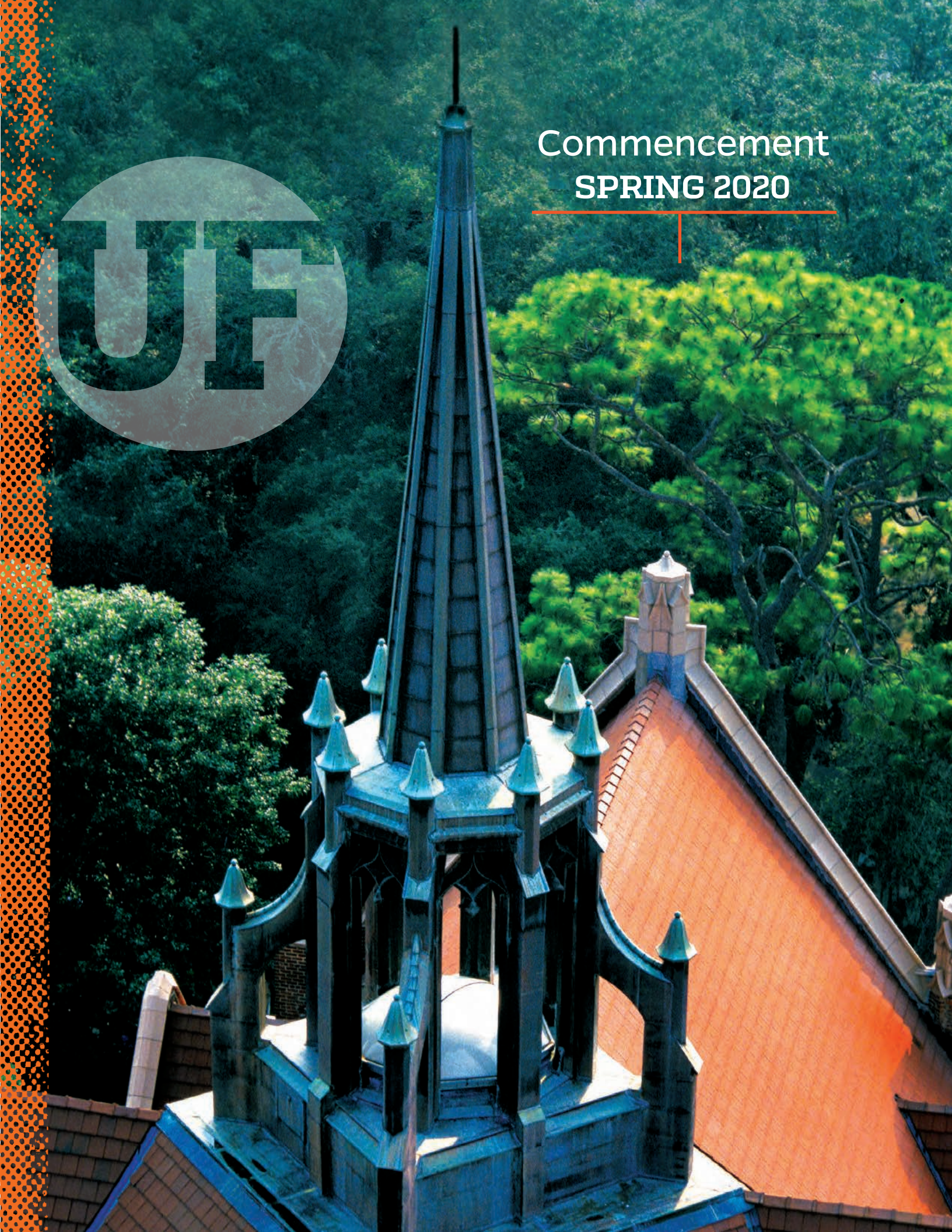
## **THIS IS NOT AN OFFICIAL GRADUATION LIST**

While every effort is made to ensure accuracy in this commencement program, printing deadlines may result in omission of some names and use of names of 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.



Commencement  
**SPRING 2020**

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## Greetings from the President

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**O**n behalf of the University of Florida, our faculty and our entire university community, I would like to extend my deepest congratulations to you, the Doctoral Graduates of 2020.

I celebrate your remarkable accomplishment in earning a doctoral degree from one of the world's leading research institutions. I applaud you for your years dedicated to in-depth scholarship, thoughtful analysis and meticulous presentation of your findings. I join you in thanking your faculty advisors, mentors and the family and friends who have supported you in your journey to reach this day.

This is a time for celebration, and also for reflection of your future. Whether you choose to pursue a career in academe, the private sector, government or the nonprofit world, I am confident that the research and analysis skills you honed as a doctoral student will serve you well. The complexity and global nature of today's professional opportunities demand nothing less.

The university has benefitted from your research work, teaching, insights and discoveries, and we are grateful to you for your time here. We hope you will recall these years fondly, and that you will remain connected to UF as active members of our distinguished alumni.

Good luck, best wishes, and Go Gators!



W. Kent Fuchs



## University of Florida President

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### Dr. W. Kent Fuchs

Dr. Kent Fuchs became the 12<sup>th</sup> President of the University of Florida in January 2015. Building on many years of excellence and focused leadership, the university has reached its goal of joining the nation's top-ten public research universities.

Dr. Fuchs has set UF on a path to joining the top-five public research universities and becoming the nation's number one university for comprehensive excellence. UF is working toward those goals through the creation of 500 new faculty positions, the addition of advanced and beautiful university facilities and an ongoing \$3 billion fundraising campaign.

Previous to the UF presidency, Dr. Fuchs was provost of Cornell University. He has served in academic leadership positions and as a faculty member of electrical and computer engineering at Cornell, Purdue and the University of Illinois.

He is a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Institute of Electrical and Electronics Engineers, and the Association for Computing Machinery, and has received numerous awards for teaching and research.

President Fuchs earned his doctorate in electrical and computer engineering from the University of Illinois, and a Master of Divinity from Trinity Evangelical Divinity School. He also holds a Bachelor of Science in Engineering from Duke University.

Dr. Fuchs is married to Linda Moskeland Fuchs, an art historian. The Fuchs family has three sons, a daughter, and three grandchildren.

Born on an Oklahoma farm in 1954, President Fuchs spent much of his youth in Alaska before moving to Miami, where he graduated from Miami Killian Senior High School.



# University of Florida Leadership

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## State Board of Education

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*Vice Chair*

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**Joe York**

## Florida Board of Governors

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**Kent Stermon**

## University of Florida Board of Trustees

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## President and Vice Presidents of the University

**W. Kent Fuchs, Ph.D.**

*President*

**Joseph Glover, Ph.D.**

*Provost and Senior Vice President - Academic Affairs*

**Charles E. Lane, D.P.A.**

*Senior Vice President and Chief Operating  
Officer - Administration*

**David R. Nelson, M.D.**

*Senior Vice President - Health Affairs*

**Jack Payne, Ph.D.**

*Senior Vice President - Agriculture and Natural Resources*

**Elias G. Eldayrie, M.B.A.**

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Officer - Information Technology*

**Zina Evans, Ph.D.**

*Associate Provost and Vice President - Enrollment Management*

**Antonio Farias, M.F.A.**

*Chief Diversity Officer and Senior Advisor to the President*

**Jodi Gentry, M.A.**

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**Amy M. Hass, J.D.**

*Vice President - General Counsel*

**Mark E. Kaplan, J.D.**

*Vice President - Government and Community Relations*

**Thomas J. Mitchell, M.S.**

*Vice President - Advancement*

**D’Andra Mull, Ph.D.**

*Vice President - Student Affairs*

**David Norton, Ph.D.**

*Vice President - Research*

**Nancy Paton, M.S.**

*Vice President for Strategic  
Communications and Marketing*

**Curtis Reynolds, M.B.A., M.S.E.E.**

*Vice President - Business Affairs*

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## Deans of the University

**R. Elaine Turner, Ph.D.**

*College of Agricultural and Life Sciences*

**Onye P. Ozuzu, M.F.A.**

*College of the Arts*

**John Kraft, Ph.D.**

*Warrington College of Business*

**A. Isabel Garcia, D.D.S., M.P.H.**

*College of Dentistry*

**Chimay Anumba, Ph.D.**

*College of Design, Construction and Planning*

**Glenn E. Good, Ph.D.**

*College of Education*

**Cammy R. Abernathy, Ph.D.**

*Herbert Wertheim College of Engineering*

**Henry T. Frierson, Ph.D.**

*The Graduate School*

**Michael Reid, Ph.D.**

*College of Health and Human Performance*

**Nick Place, Ph.D.**

*IFAS Extension*

**Robert Gilbert, Ph.D.**

*IFAS Research*

**Leonardo Villalón, Ph.D.**

*International Center*

**Diane H. McFarlin, B.S.**

*College of Journalism and Communications*

**Laura A. Rosenbury, J.D.**

*Fredric G. Levin College of Law*

**David E. Richardson, Ph.D.**

*College of Liberal Arts and Sciences*

**Adrian Tyndall, M.D., M.P.H.**

*Interim, College of Medicine*

**Anna M. McDaniel, Ph.D., R.N.**

*College of Nursing*

**Julie A. Johnson, Pharm.D.**

*College of Pharmacy*

**Michael G. Perri, Ph.D.**

*College of Public Health and Health Professions*

**Dana Zimmel, D.V.M.**

*Interim, College of Veterinary Medicine*

**Judith C. Russell, M.S.**

*University Libraries*

**Heather White, Ph.D.**

*Dean of Students*

# GRADUATE SCHOOL

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HENRY T. FRIERSON, ASSOCIATE VICE PRESIDENT AND DEAN OF THE GRADUATE SCHOOL

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## DOCTOR OF PHILOSOPHY

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### **Kelsey S. Aadland**

Major: *Microbiology and Cell Science*

Dissertation: Conservation of Early miRNA Biogenesis in Animal and Plant Lineages

Dissertation Chair: B. D. Kolaczowski

### **Nader Farhan Abdulhameed**

Major: *Materials Science and Engineering*

Dissertation: Quantitative Fractographic Analysis to Measure the Fracture Toughness of Dental Resin Composites

Dissertation Chair: J. J. Mecholsky, Jr.

### **Daniel Nicholas Acton**

Major: *Criminology, Law, and Society*

Dissertation: Sibling Influences: Delinquency and Victimization

Dissertation Chair: C. L. Gibson

### **Stephanie M. Adams**

Major: *Forest Resources and Conservation*

Dissertation: Physiological, Morphological, and Biochemical Changes in *Persea* Species' Response to Laurel Wilt after Paclobutrazol Treatments

Dissertation Chair: J. A. Smith

### **Pedro F. Adorno Maldonado**

Major: *Civil Engineering*

Dissertation: The Effects of Emerging Transportation Technologies (Time-to-Green Mobile Apps in Particular) on Drivers' Behaviors and Safety at Signalized Intersections

Dissertation Chair: S. Srinivasan

### **Nihan Agacli Dogan**

Major: *Curriculum and Instruction*

Dissertation: Description and Exploration of Middle School Students' Acceptance of Chromebooks: A Mixed Methods Study

Dissertation Chair: K. M. Dawson

### **Natasha Marie Agramonte**

Major: *Entomology and Nematology*

Dissertation: Neuroethology of Pyrethroid-Resistant *Aedes aegypti*: Toxicological Differences, Excito-Repellent Behaviors, and Electrophysiological Firing Response to Pyrethroid Insecticides

Dissertation Chair: J. R. Bloomquist

Dissertation Co-chair: U. R. Bernier

### **Niousha Ahmari**

Major: *Medical Sciences—Physiology and Functional Genomics*

Dissertation: Targeting Peripheral and Central Immune Changes in Obesity and Hypertension through Bone Marrow Beta-Adrenergic Blockade

Dissertation Chair: J. Zubcevic

### **Kawther Sahib Al Jasim**

Major: *Horticultural Sciences*

Dissertation: Novel Approaches to Induce Early Flowering and Fruiting in Juvenile Citrus Hybrids and Transgenic Plants

Dissertation Chair: J. W. Grosser

### **Mohammed Al Meqdad**

Major: *Linguistics*

Dissertation: Discourse and Identity among Syrian Refugees: A Qualitative Analysis of Institutional and Refugee Discourse

Dissertation Chair: D. Boxer

**Mimonah Qasim Al Qathrady**

Major: *Computer Engineering*

Dissertation: Data-Driven Indoor Mobility Analysis, Modeling, and Encounter Classification for IoT Applications

Dissertation Chair: A. A. Helmy

**Yasser Thakkar Albogami**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Safety and Effectiveness of Pharmacological Treatments in Patients with Chronic Lower Respiratory Disease and Type II Diabetes

Dissertation Chair: A. G. Winterstein

**Bahareh Alipanahi Ramandi**

Major: *Computer Science*

Dissertation: Variants and Applications of Colored de Bruijn Graphs

Dissertation Chair: C. A. Boucher

**Abdulrahman Salah Almithn**

Major: *Chemical Engineering*

Dissertation: C-X Bond Hydrogenolysis on Transition Metals: Effects of High CO-Adsorbates Coverages, Catalyst Model, and Phosphorus Incorporation

Dissertation Chair: D. Hibbitts

**Mohammad Hasan Alshaer**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Therapeutic Optimization of Antibacterial Agents

Dissertation Chair: C. A. Peloquin

**Valeria Alterman**

Major: *Business Administration—Management*

Dissertation: Can Specialized Attention from HR Backfire? The Role of Older Worker-Specific HR Practices on the Retention of Older Workers

Dissertation Chair: M. Wang

**Zuhair Abdulmohsin Al-Yousef**

Major: *Chemical Engineering*

Dissertation: Improved Control of Direct Methanol Fuel Cells via Multivariable Methods

Dissertation Chair: O. D. Crisalle

**Icaro Alzuru Cortez**

Major: *Computer Engineering*

Dissertation: Human-Machine Extraction of Information from Biological Collections

Dissertation Chair: J. A. Fortes

**Prabha Rajini Amarasinghe**

Major: *Botany*

Dissertation: Evolution of *Memecylon* (Melastomataceae) in the Old World Tropics at Multiple Scales

Dissertation Chair: N. Cellinese

**Kelsey Andersen Onofre**

Major: *Plant Pathology*

Dissertation: Modeling Epidemics in Seed Systems to Inform Intervention

Dissertation Chair: K. A. Garrett

**Jesse D. Anderson**

Major: *Design, Construction and Planning*

Dissertation: The Political Efficacy of Informal Settlements in Patna, Bihar

Dissertation Chair: A. Alakshendra

**Altan Apar**

Major: *Political Science*

Dissertation: Competitiveness as a Security Dispositif in the International System

Dissertation Chair: I. Oren

Dissertation Co-chair: A. A. Hozic

**Stephen Michael Apple**

Major: *Aerospace Engineering*

Dissertation: Design and Performance Characterization of a New LISA-Like Gravitational Reference Sensor Test Bed Using the UF Torsion Pendulum

Dissertation Chair: J. Conklin

**Lucas Hunter Armitage**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Regulation of Innate Immune Cell Function and Dysfunction by *PTPN22* Allotypes

Dissertation Chair: C. E. Mathews

**Vadim Da Costa Arsky Filho**

Major: *Music Education*

Dissertation: A Comparison of Brazilian and United States First Year Music Majors' Pre-College Musical Experiences and Musical Self-Concept

Dissertation Chair: W. Bauer

**Ibukun Timothy Ayankojo**

Major: *Soil and Water Sciences*

Minor: *Agronomy*

Dissertation: Towards Best Management Practices in Florida Tomato Production: Irrigation, Nutrition, and Modeling

Dissertation Chair: K. T. Morgan

**Ori R. Baber**

Major: *Health and Human Performance*

Dissertation: A New Spatial-Interaction Approach to Evaluate Neighborhood-Level Equity in Access to Opportunities for Physical Activity

Dissertation Chair: H. J. Gibson

**Grant Alexander Backlund**

Major: *Statistics*

Dissertation: Analysis of Markov Chain Monte Carlo Algorithms for Bayesian Regression Models with Heavy-Tailed and Skewed Error Distributions

Dissertation Chair: J. P. Hobert

**Kamaldeep Kaur Bansal**

Major: *Plant Pathology*

Dissertation: Comparative Genomics and Transcriptomics of the Pollen-Mimicking Floral Infection of Blueberry by *Monilinia vaccinii-corymbosi*

Dissertation Chair: J. A. Rollins

**Danielle Barbe**

Major: *Health and Human Performance*

Minor: *Mass Communication*

Dissertation: Developing a Crisis Communication Model for the Tourism Industry: The Effects of Source, Media, and Time

Dissertation Chair: L. Pennington

**Molly Anne Barlow**

Major: *Psychology*

Dissertation: Effects of Economic Context on the Discounting of Delayed and Probabilistic Gains and Losses

Dissertation Chair: J. Dallery

**Brooke E. Barnes**

Major: *Chemistry*

Dissertation: The Effect of Peptide Specific Interactions on Polymer Self-Assembly

Dissertation Chair: B. S. Sumerlin

**Colin Sheldon Barquist**

Major: *Physics*

Dissertation: Design, Development, Fabrication, and Measurement of Micro-Electromechanical Oscillators for the Study of Quantum Turbulence and Other Superfluid Properties

Dissertation Chair: Y. Lee



**Adam R. Benjamin**

Major: *Forest Resources and Conservation*

Dissertation: Improving Structure from Motion Photogrammetry Mapping Operations through Efficiency and Accuracy Analysis

Dissertation Chair: H. H. Hochmair

**Ann Bernert**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Discovery of RquA Function and Prospects for Engineering Quinone Metabolism in Bacteria, Yeast, and Plants

Dissertation Chair: G. J. Basset

**Rajendra Rana Bhat**

Major: *Electrical and Computer Engineering*

Dissertation: Deep Semi-Temporal Learning and Application in Genomics and Precision Medicine

Dissertation Chair: D. Wu

**Krishna Bhattarai**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Genetic Mapping and Next-Generation Sequencing to Identify Quantitative Trait Loci and Candidate Genes for Powdery Mildew Resistance in Gerbera (*Gerbera hybrida*)

Dissertation Chair: Z. Deng

Dissertation Co-chair: D. G. Clark

**Kerri Lisa Blumenthal**

Major: *Religion*

Dissertation: Rejecting the Eagle, Embracing the Condor: Spirituality and Lifestyle Migration among North Americans in Cuzco, Peru

Dissertation Chair: A. Peterson

**Gregory Harlan Bontrager**

Major: *Linguistics*

Dissertation: Effect of Orthographic Depth on Reading in English and Spanish

Dissertation Chair: C. R. Wiltshire

**Wesley W. Boone IV**

Major: *Wildlife Ecology and Conservation*

Dissertation: Ecology and Population Genetics of Marsh Rice Rats and Hispid Cotton Rats on Near-Shore Islands

Dissertation Chair: R. A. McCleery

Dissertation Co-chair: J. D. Austin

**Thiago Borba Onofre**

Major: *Agricultural and Biological Engineering*

Dissertation: Development of an Internet of Things Data Collection Platform for Agricultural Applications

Dissertation Chair: C. W. Fraisse

Dissertation Co-chair: J. Y. McNair

**Khlood Saleh Bubshait**

Major: *Nursing Sciences*

Dissertation: Maternal Voice as a Regulator of Neural Development in Premature Infants

Dissertation Chair: C. A. Krueger

**Chesya Burke**

Major: *English*

Dissertation: #Hashtag, Black Girl Magic: Reimagining Black Women Fluid Artists within the Spirituality of Womanism

Dissertation Chair: D. W. King

**Katie Ann Butera**

Major: *Rehabilitation Science*

Dissertation: Pain as a Nervous System Disease: Initial Validation of Low Back Pain Nervous System Processing Subgroups Using Performance-Based Measures of Walking and Movement Evoked Pain

Dissertation Chair: S. George

Dissertation Co-chair: E. J. Fox

**John Marcus Cain**

Major: *Chemistry*

Dissertation: Mechanisms for Emergent Behavior Derived from Interface Strain in Nanoscale Spin Transition Heterostructures

Dissertation Chair: D. R. Talham

**Salvatore John Calise III**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: The Role of Inosine Monophosphate Dehydrogenase Filaments in Cell Biology

Dissertation Chair: E. K. Chan

**Christina M. Callicott**

Major: *Anthropology*

Dissertation: Music, Plants, and Medicine: Lamista Shamanism in the Age of Internationalization

Dissertation Chair: C. M. Tucker

**Will Gaston Carden**

Major: *Chemistry*

Dissertation: Ligand Effects in Gold Precursors for Focused Electron Beam Induced Deposition

Dissertation Chair: L. A. McElwee-White

**Sarah Beth Carey**

Major: *Botany*

Dissertation: Sex-Biased Evolutionary Processes in Mosses

Dissertation Chair: S. McDaniel

**Stephanie T. Carnell**

Major: *Human-Centered Computing*

Dissertation: Using Virtual Human Communication Skills Learning Scenarios to Study and Affect Learner Message Production

Dissertation Chair: B. Lok

**Keisha Yarie Castillo-Torres**

Major: *Electrical and Computer Engineering*

Dissertation: Magnetic Isolation of Fecal Indicating Bacteria Using Bio-Functionalized Magnetic Microdiscs for Water Quality Monitoring

Dissertation Chair: D. P. Arnold

**Madison Ward Cates**

Major: *History*

Dissertation: Until You Live Alone in the Land: Development, Displacement, and Environmentalism in the Rural South, 1960-1994

Dissertation Chair: W. Link

**Nicholas David Cavallaro**

Major: *Agricultural and Biological Engineering*

Dissertation: Laser Carbonized Biosensors for Point of Use Detection of *Listeria monocytogenes*

Dissertation Chair: E. McLamore

**Elizabeth Cerejido**

Major: *Art History*

Dissertation: Where Is Cuban American Art: Deconstructing Binaries in Artistic Production, Identity Formation and Cultural Politics (1980s-2019)

Dissertation Chair: M. Stanfield-Mazzi

Dissertation Co-chair: K. Cabanas

**Aokun Chen**

Major: *Electrical and Computer Engineering*

Dissertation: On the Feasibility and Temporal Consistency of Personalized, Human-Centric Computer Usage Profiling for Continuous Authentication

Dissertation Chair: D. Oliveira

**Amani Cheniour**

Major: *Materials Science and Engineering*

Dissertation: Study of  $U_3Si_2$  Fuel Microstructure Behavior under LWR Conditions Using the Phase Field Method

Dissertation Chair: M. Tonks

**Andreina Chiu Lam**

Major: *Chemical Engineering*

Dissertation: Evaluation of Magnetic Nanoparticle Response in an Alternating Magnetic Field for Magnetic Fluid Hyperthermia and Organ Transplantation

Dissertation Chair: C. Rinaldi

**Kwansun Cho**

Major: *Electrical and Computer Engineering*

Minor: *Communication Sciences and Disorders*

Dissertation: Foreign Accent Assessment in Second-Language Vowels

Dissertation Chair: J. G. Harris

**Bhaswati Choudhury**

Major: *Mechanical Engineering*

Dissertation: Study of Dielectric Barrier Discharge (DBD) Plasma-Based Fluid Decontamination

Dissertation Chair: S. Roy

**Thomas J. Cirino**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Biological Mediators of Pain, Substance Abuse and Cognitive Impairment in HIV Infection: Sufficiency of the HIV-Tat Protein

Dissertation Chair: J. P. McLaughlin

**Christopher Jordan Clukay**

Major: *Anthropology*

Dissertation: Exploring the Role of Genetics and Epigenetics in Response to Conflict-Related Violence

Dissertation Chair: C. J. Mulligan

**Sayak Das Gupta**

Major: *Chemistry*

Dissertation: Polynuclear Cerium/Manganese-oxo Clusters and Their Structural Relevance to Composite Oxides of Cerium and Manganese

Dissertation Chair: G. Christou

**Trevor Davila**

Major: *Mathematics*

Dissertation: Infinite-Dimensional Coarse Geometry of Groups and Spaces

Dissertation Chair: A. N. Dranishnikov

**Adrian Diaz**

Major: *Aerospace Engineering*

Dissertation: A Concurrent Atomistic-Continuum Method for Massively Parallel Simulation of Non-Equilibrium Solids

Dissertation Chair: Y. Chen

**James Daniel Diffenderfer**

Major: *Mathematics*

Dissertation: An Active Set Method for Nonlinear Programming

Dissertation Chair: W. W. Hager

**Christopher Aaron DiScenza**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Wave Turbulence of Edge Waves

Dissertation Chair: A. A. Sheremet

**Brittney Nicole Dixon**

Major: *Public Health*

Dissertation: The Association between the Built Environment and Intervention-Related Weight Loss Outcomes for Rural Adults with Obesity

Dissertation Chair: K. M. Ross

**Lisa G. Duffy**

Major: *Anthropology*

Dissertation: Using Residue Analysis to Explore Ancient Maya Recipes and Food-Processing Technology

Dissertation Chair: K. F. Emery

**Kyle A. Dyson**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Towards a Comprehensive Understanding of Medulloblastoma Immunobiology

Dissertation Chair: D. Mitchell

**Parker Benjamin Edwards**

Major: *Mathematics*

Dissertation: A New Palette for Persistence Landscapes

Dissertation Chair: P. Bubenik

**Robert Stephen Eisinger**

Major: *Medical Sciences—Neuroscience*

Dissertation: Reward Processing and Impulsivity in Parkinson's Disease

Dissertation Chair: A. Gunduz

**Amy L. Elliott**

Major: *Epidemiology*

Dissertation: Racial/Ethnic and Area Deprivation Disparities in the Juvenile Justice Drug and Alcohol Use Services Cascade

Dissertation Chair: L. B. Cottler

**Fabien Emmetiere**

Major: *Chemistry*

Dissertation: Knoevenagel Adduct Allyl Anions: A Platform for Simplifying and Diversifying Complex Molecule Synthesis

Dissertation Chair: A. J. Grenning

**Michael Esbach**

Major: *Interdisciplinary Ecology*

Dissertation: Hunting for Justice: Indigenous Self-Determination and the Sustainability of Subsistence in the Ecuadorian Amazon

Dissertation Chair: B. A. Loiselle

**Brandon James Eudy**

Major: *Nutritional Sciences*

Dissertation: Role of Adenosine and Adenosine Receptors in Cytokine Secretion from Macrophages and Implication to Immune Function in a Mouse Model of Liver Damage

Dissertation Chair: R. P. Da Silva

**Ying Fan**

Major: *Food Science*

Minor: *Food and Resource Economics*

Dissertation: Determination of Whiteleg Shrimp Quality by a Sensory Evaluation Method Using Aqueous Aroma Dilutions and by a Colorimetric Strip Method

Dissertation Chair: P. J. Sarnoski

Dissertation Co-chair: K. R. Schneider

**Daniel Elias Farrah**

Major: *Design, Construction and Planning*

Dissertation: Integration of Environmental Indicators into Land-Use Conflict Identification Strategy to Analyze the Impacts of Multiple Land Use Scenarios

Dissertation Chair: P. D. Zwick

**Henrietta Oyeyemi Fasanya**

Major: *Medical Sciences—Cancer Biology*

Dissertation: The Role of Cathepsin Inhibition in Osteosarcoma Metastasis

Dissertation Chair: D. W. Siemann



**Ehsan Fereyduni**

Major: *Chemistry*

Dissertation: Discovery of a Room-Temperature Cope Rearrangement and Applications in Synthesis of Terpenes, Complex Amides, and Esters

Dissertation Chair: A. J. Grenning

**Gabriel Alejandro Fernandez Bueno**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Mitochondrial Dysfunction as a Component of Pathogenesis in Non-Alcoholic Fatty Liver Disease and Type 2 Diabetes Mellitus

Dissertation Chair: C. E. Mathews

**Paula Fernandez Hernandez**

Major: *Romance Languages—Spanish*

Dissertation: Canary Islands and the Caribbean at the Anthropocene Crossroads: Islands and Feminine and/or Feminist Poetry in the 21<sup>st</sup> Century

Dissertation Chair: E. Barradas

**Alinka Leila Földesi-Freeman**

Major: *Nursing Sciences*

Dissertation: HIV-Related Stigma and Medication Adherence: A Rural-Urban-Suburban Comparison Using Secondary Data from a Florida Cohort

Dissertation Chair: J. R. Stacciarini

**Kara Lea Fransisco**

Major: *Sociology*

Dissertation: Bad Bodies and Contested Conceptions: Exploring Trying to Conceive, Pregnancy, and Birth

Dissertation Chair: B. A. Zsembik

**Ian R. Frazier**

Major: *Psychology*

Dissertation: Trust-Related Decision Making and Aging

Dissertation Chair: N. C. Ebner

**Michele Lisa Fullarton**

Major: *Materials Science and Engineering*

Dissertation: Thermodynamics and Charged Defects in Nuclear Alloys and Semiconductor Materials from First-Principles Calculations

Dissertation Chair: S. R. Phillpot

**Elyssa J. Gage**

Major: *History*

Dissertation: 'A Softer and More Durable Glory': Narratives of Justice and Colonialism in the French Atlantic, 1801-1830

Dissertation Chair: S. T. Kroen

**Kareem A. Galal**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Synthesis and Biological Evaluation of Optimized Analogues of Benzyl Piperidine Based Neuropeptide FF Receptor Ligands

Dissertation Chair: C. R. McCurdy

**Mayur Ghatge**

Major: *Electrical and Computer Engineering*

Dissertation: Linear and Non-Linear Micro-Acoustic Waveguides for Frequency Control Applications

Dissertation Chair: R. Tabrizian

**Elizabeth Maura Gleeson**

Major: *Art History*

Dissertation: Between the Public and Private: Women's Networks and the Politics of Portraiture at Napoleon's Court

Dissertation Chair: M. L. Hyde

**Emma Grauerholz-Fisher**

Major: *Psychology*

Dissertation: Assessment and Teaching of Task Analyses in Individuals with Autism Spectrum Disorders

Dissertation Chair: T. R. Vollmer

**Jandy A. Gu**

Major: *Anthropology*

Dissertation: Vanguard or Vandal: Symbolic Boundaries and Subjectivities of Grafite and Pixação in São Paulo, Brazil

Dissertation Chair: I. Jusionyte

Dissertation Co-chair: M. J. Heckenberger

**Dongwoo Hahn**

Major: *Health and Human Performance*

Dissertation: Diaphragm Weakness in Acute Myocardial Infarction by NAD(P)H Oxidase 4: Murine Diaphragm

Preparation for Mitochondrial Function Assessment

Dissertation Chair: L. F. Ferreira

**LB Hannahs**

Major: *Higher Education Administration*

Dissertation: From the Top Down: An Exploratory Study of a Diversity Mandate

Dissertation Chair: K. D. Peck Parrott

**Clarissa M. Harris**

Major: *Animal Sciences*

Dissertation: The Antimicrobial Effects of a Vinegar-Based Ingredient, Lauric Arginate and Ethylenediamine Tetraacetic Acid against *Salmonella* on Skinless Ground Chicken Breast Meat

Dissertation Chair: S. K. Williams

**Holden Earl Harris**

Major: *Interdisciplinary Ecology*

Dissertation: Viability and Effectiveness of a Commercial Fishery to Mitigate Invasive Lionfish in the Northern Gulf of Mexico

Dissertation Chair: M. S. Allen

Dissertation Co-chair: W. F. Patterson III

**Angelique M. Haworth**

Major: *Educational Leadership*

Dissertation: The Principal as an Advocate for Gifted Programs: A Multiple Case Study

Dissertation Chair: L. B. Eldridge

Dissertation Co-chair: L. J. Searby

**Kirsten A. Hecht**

Major: *Interdisciplinary Ecology*

Dissertation: A Mixed-Methods Investigation of Public Engagement Activities by Herpetologists

Dissertation Chair: K. A. Stofer

Dissertation Co-chair: M. A. Nickerson

**Kristofer Thomas Henderson**

Major: *Electrical and Computer Engineering*

Dissertation: Sensor Fusion for Non-Line-of-Sight Visualization and Imaging

Dissertation Chair: S. J. Koppal

**Lauren Michael Henry**

Major: *Criminology, Law, and Society*

Dissertation: Prosecutorial Sexual Assault Case Declination in Indian Country: A Legal Theory Consideration

Dissertation Chair: L. M. Lanza Kaduce

**Kevin A. Henson**

Major: *Environmental Engineering Sciences*

Dissertation: Quantifying the Effects of Upland Management on the Hydrology, Flora, and Fauna of Pine Flatwoods-Wetland Mosaics in the Southeastern United States

Dissertation Chair: D. A. Kaplan

**Marilyn Horta**

Major: *Psychology*

Dissertation: The Effects of Chronic Intranasal Oxytocin Administration and Brain Mechanisms Underlying Dynamic Emotion Identification Accuracy in Healthy Aging

Dissertation Chair: N. C. Ebner

Dissertation Co-chair: A. Keil

**Cody Coyotee Howard**

Major: *Botany*

Dissertation: Evolutionary Insights into Monocotyledonous Geophytes

Dissertation Chair: N. Cellinese

**Muhammad Imran**

Major: *Physics*

Dissertation: Theory of Magnetotransport in the Dirac and Weyl Semimetals

Dissertation Chair: S. P. Hershfield

**Cameron Jerome Jack**

Major: *Entomology and Nematology*

Dissertation: Facilitating the Development of an Integrated Pest Management Approach for Controlling *Varroa destructor* in Florida

Dissertation Chair: J. Ellis

**Haoming Jin**

Major: *Physics*

Minor: *Materials Science and Engineering*

Dissertation: Comparative Studies of the Electrical Properties of Heterostructures Containing Topological Insulators or Strontium Titanate

Dissertation Chair: A. F. Hebard

**Lindsay M. Johnson**

Major: *Zoology*

Dissertation: Phenotypic Effects of Spontaneous Mutations in *Caenorhabditis elegans*

Dissertation Chair: C. Baer

**Andrew S. Jones**

Major: *Chemical Engineering*

Dissertation: Doped Rare-Earth Oxides for the Oxidative Coupling of Methane

Dissertation Chair: H. E. Hagelin Weaver

**Harrison Henry Jones**

Major: *Zoology*

Dissertation: Avian Behavioral and Community-Level Responses to Forest Fragmentation in the Western Andes of Colombia

Dissertation Chair: T. Palmer

Dissertation Co-chair: S. K. Robinson

**Madison P. Jones IV**

Major: *English*

Dissertation: Writing, Place, Network: Scale and Digital Rhetoric

Dissertation Chair: S. I. Dobrin

**Rachel Elaine Joyce**

Major: *Microbiology and Cell Science*

Dissertation: Bioprecipitation: The Connection between Microbiology and Meteorology

Dissertation Chair: B. C. Christner

**Colin Patrick Kearney**

Major: *Mass Communication*

Dissertation: Regionalism in Prime-Time: An Examination of the American South on Television

Dissertation Chair: R. Rodgers

**Oliver Keller**

Major: *Entomology and Nematology*

Dissertation: Studies on *Robopus Motschulsky*, 1853 and *Heterophotinus* Oliver, 1894 and Related West Indian Fireflies (Coleoptera: Lampyridae)

Dissertation Chair: M. A. Branham

**Rachel Catherine Kelley**

Major: *Health and Human Performance*

Minor: *Nutritional Sciences*

Dissertation: Skeletal Muscle and Cardiac Abnormalities in Diet-Induced Obesity and Heart Failure with Preserved Ejection Fraction

Dissertation Chair: L. F. Ferreira

**Roozbeh Ketabi**

Major: *Computer Engineering*

Dissertation: Enabling Urban-Scale Simulation, Similarity, Matching, and Forecasting Applications Using Spatio-Temporal Analysis of Vehicular Mobility

Dissertation Chair: A. A. Helmy

**Erica Jean Kiernan**

Major: *Public Health*

Dissertation: Evaluating the Relationship between Apathy and Grit with Participation in a Parkinson's Community Exercise Program

Dissertation Chair: A. V. Blue

**Benjamin J. Kimock**

Major: *Astronomy*

Dissertation: Lyman- $\alpha$  Blobs in Cosmological Simulations

Dissertation Chair: D. T. Narayanan

**Tamara Ibragimovna Khudoyberdieva King**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Bioanalytical Method Development, Validation, and Application to Preclinical Pharmacokinetic Studies of Neuropeptide FF Targeting Compounds and Kratom Alkaloids

Dissertation Chair: T. D. Schmittgen

Dissertation Co-chair: C. R. McCurdy

**Rahul Babu Koneru**

Major: *Mechanical Engineering*

Dissertation: Investigations of Shock Wave-Particle Bed Interactions Using a Euler-Lagrange Framework

Dissertation Chair: S. Balachandar

**Pavlo Ivan Kravchenko**

Major: *Chemical Engineering*

Dissertation: Exploring the Fundamentals of Catalysis: How Do Confinement, Solvation, and Surface Crowding Influence Reactions?

Dissertation Chair: D. Hibbitts

**Ouidad Lahtigui**

Major: *Chemistry*

Dissertation: Fundamental and Applied Studies of the Cope Rearrangement

Dissertation Chair: A. J. Grenning

**Kangjae Lee**

Major: *Mechanical Engineering*

Dissertation: A Laser-Based Heating System Coupled within Operando Raman Spectroscopy for Studying Solar Thermochemical Redox Cycles of Ceria and LSM Perovskites

Dissertation Chair: J. Scheffe



**Sangyoul Lee**

Major: *Food and Resource Economics*

Dissertation: The Unintended Consequences of Environmental Regulation and Voluntary Pollution Prevention

Program: Substitution, Leakage, and Spillover

Dissertation Chair: X. Bi

**Patrice J. Leopold**

Major: *Counseling and Counselor Education*

Dissertation: Examining Empathy, Resilience, and Parental Attachment as Mediators for Intergenerational Transmission of Conflict in Dyadic Romantic Relationships

Dissertation Chair: J. Swank

**Alice Kelsey Lewis**

Major: *Zoology*

Dissertation: Prevalence and Mechanisms of Genital Variation: Hormonal and Cellular Mechanisms Underlying Hypospadias with Chordee

Dissertation Chair: M. J. Cohn

**Gengnan Li**

Major: *Chemistry*

Dissertation: Structural and Functional Investigation of Macromolecules in Natural Product Biosynthetic Pathways

Dissertation Chair: S. D. Bruner

**Shuzhan Li**

Major: *Curriculum and Instruction*

Dissertation: Rural Mainstream Elementary Teacher Identity in Teaching English Language Learners

Dissertation Chair: M. R. Coady

**Tiantian Li**

Major: *Soil and Water Sciences*

Dissertation: From Biowaste to Value Added Materials and Its Application in Soil and Water

Dissertation Chair: Y. Li

Dissertation Co-chair: Z. Tong

**Yang Li**

Major: *Mechanical Engineering*

Dissertation: A Multiscale Simulation Study of PbTe-PbSe Heterostructures from Growth to Defect Formation to Phonon Transport

Dissertation Chair: Y. Chen

**Ying-Yu Liao**

Major: *Plant Pathology*

Dissertation: Antibacterial Potential of Nano Magnesium, and Role of Type VI Secretion System of *Xanthomonas perforans*

Dissertation Chair: M. Paret

Dissertation Co-chair: J. B. Jones

**Yi Ting Lien**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Application of Pharmacometric Principles for Enhanced Decision Making in Special Patient Populations

Dissertation Chair: S. Schmidt

Dissertation Co-chair: V. Vozmediano Esteban

**Andrea Lin**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Immune Changes with ATG+GCSF Therapy and Its Impacts on C-Peptide Preservation in Type 1 Diabetes

Dissertation Chair: C. E. Mathews

**Thomas Linehan**

Major: *Aerospace Engineering*

Dissertation: Vortex Flows and the Stability and Control of Thin Low-Aspect-Ratio Wings with Application to Bird Landing

Dissertation Chair: K. Mohseni

**Taylor N. Lipscomb**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Using Larval Digestive System Ontogeny to Inform Larviculture Protocols in Freshwater Ornamental Fishes

Dissertation Chair: M. A. DiMaggio

**Jun Liu**

Major: *Research and Evaluation Methodology*

Dissertation: Detecting Differential Item Functioning Items through the Use of Multiple Group Mixture Item Response Theory Model

Dissertation Chair: D. Miller

**Yiyang Liu**

Major: *Epidemiology*

Dissertation: Cocaine Use Patterns and Polysubstance Use among Cocaine Users from a National Survey

Dissertation Chair: L. B. Cottler

**Yue Liu**

Major: *Environmental Engineering Sciences*

Dissertation: Mathematical and Physical Models of Urban Particulate Granulometry

Dissertation Chair: J. J. Sansalone

**Jason Paul Longtin**

Major: *Music Education*

Dissertation: The Experiences of Music Education Majors Who Transfer from a Two-Year College to a Public Four-Year University in Florida: A Hermeneutic Phenomenology

Dissertation Chair: W. Bauer

**Beatriz Lopez Gutierrez**

Major: *Forest Resources and Conservation*

Dissertation: Challenges and Opportunities for Biodiversity Conservation through Nature-Based Activities in the Osa Peninsula of Costa Rica

Dissertation Chair: E. N. Broadbent

**Natercia Lourinho Moura do Valle**

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: The Influence of Learning Analytics Dashboard Design on Learners' Statistics Anxiety, Motivation, and Learning Performance

Dissertation Chair: P. Antonenko

**Xiaojie Lu**

Major: *Design, Construction and Planning*

Minor: *Statistics*

Dissertation: Exploring the Effects of Innovative Lighting Interventions on Older Adults' Movement Behaviors and Overcoming Fear of Falling

Dissertation Chair: S. Ahrentzen

**Yanyan Lu**

Major: *Soil and Water Sciences*

Dissertation: Agronomic and Environmental Impact of Land Application of Biosolids on Bahiagrass Pastures in Florida

Dissertation Chair: M. L. Silveira

**Yu Lu**

Major: *Materials Science and Engineering*

Dissertation: Understanding the Microstructure Evolution and Mechanical Property Degradation of Thermally Aged and Neutron Irradiated Duplex Stainless Steels

Dissertation Chair: Y. Yang

**Yangdi Lyu**

Major: *Computer Science*

Dissertation: Test Generation for System-On-Chip Security Validation

Dissertation Chair: P. K. Mishra

**Russell Michael Macoon**

Major: *Chemical Engineering*

Dissertation: Dispersion of Drug Particles and Emulsion Drops in Oleogels for Ophthalmic Drug Delivery

Dissertation Chair: J. E. Butler

Dissertation Co-chair: A. Chauhan

**Katherine Maslak Madson**

Major: *Design, Construction and Planning*

Dissertation: Evaluation of Types of Flexibility in Delivering Manufacturing Facilities and a Real Options Analysis of Scalability within the Pharmaceutical Sector

Dissertation Chair: B. W. Franz

**Matthew David Magennis**

Major: *Health and Human Performance*

Dissertation: Emotion and Movement Quality: Speed, Smoothness and Timing Accuracy

Dissertation Chair: C. M. Janelle

**Nidza Vizcarra Marichal**

Major: *Curriculum and Instruction*

Dissertation: Teacher Knowledge about Teaching Rural Secondary English Learners

Dissertation Chair: M. R. Coady

**Maria Dolores Martin Gasulla**

Major: *Civil Engineering*

Dissertation: Integrating Autonomy and Connectivity to Improve Traffic Operations at Roundabouts

Dissertation Chair: A. Elefteriadou

**Michaela Wynne McCrary**

Major: *Biomedical Engineering*

Dissertation: Development of Spinal Cord Injury In Vitro Model Systems and In Vivo Therapeutic Strategies

Dissertation Chair: C. E. Schmidt

**Lucas Glen McEachron**

Major: *Interdisciplinary Ecology*

Dissertation: Reef Fish Spatial Distributions Throughout the Florida Keys in the Context of Matrix Effects, Trophic Dynamics, and Complementary Modeling Techniques

Dissertation Chair: R. J. Fletcher, Jr.

Dissertation Co-chair: M. S. Allen

**Antionette M. McFarlane**

Major: *Sociology*

Dissertation: "Black Men and Women Are Not Raised to Love Each Other": The Perspectives of Black College Students regarding Dating Violence

Dissertation Chair: C. L. Shehan

**Noah John McFerran**

Major: *Nuclear Engineering Sciences*

Dissertation: Surface Measurement Gamma-Ray Spectroscopy Variation Characterization of Filled Uranium Hexafluoride Cylinders

Dissertation Chair: P. J. Enqvist

**Daniel C. Melear**

Major: *Counseling and Counselor Education*

Dissertation: A Qualitative Study of How Couple Counselors Understand Apology and Adaptive Shame in Relationship Repair with Couples Facing Infidelity

Dissertation Chair: S. L. Smith

**Anthony Eli Melton**

Major: *Botany*

Dissertation: Molecular Evolutionary and Macroecological Investigations of the Eastern Asia—Eastern North America Floristic Disjunction

Dissertation Chair: D. E. Soltis

Dissertation Co-chair: P. S. Soltis

**Andrew L. Miller**

Major: *Physics*

Dissertation: Using Machine Learning and the Hough Transform to Search for Gravitational Waves from Young Isolated Neutron Stars

Dissertation Chair: B. F. Whiting

**Stephanie Michelle Mintz**

Major: *Criminology, Law, and Society*

Dissertation: Learning Extremism: A Social Learning Theory Approach to Explaining Engagement in Violent Extremism

Dissertation Chair: L. M. Lanza Kaduce

**Hamideh Mohammadi**

Major: *Romance Languages—Spanish*

Dissertation: Effect of Age of Exposure in Heritage and Second Language Processing

Dissertation Chair: J. R. Valdes Kroff

**Cameron D. Morley**

Major: *Mechanical Engineering*

Dissertation: Collective Cell Behavior in 3D: Mechanics, Migration, and Transport

Dissertation Chair: T. E. Angelini

**Aaron James Mullins**

Major: *Entomology and Nematology*

Dissertation: Nitrogen Procurement and Provisioning in the Termites

Dissertation Chair: N. Su

**Aravinda Munasinghe**

Major: *Chemistry*

Dissertation: Polymers' Effects on Structure and Dynamics of upon Conjugation, Including Their Effect towards the Microenvironment of the Protein

Dissertation Chair: C. M. Colina

**Matthew Nicholas Musselwhite**

Major: *Veterinary Medical Sciences*

Dissertation: Central and Peripheral Modulation of Reflex Tracheobronchial Cough in the Cat

Dissertation Chair: D. C. Bolser

**Barbara A. Myslik**

Major: *Mass Communication*

Dissertation: Agenda Building Potential of Populist Politicians in the European Union and in the United States

Dissertation Chair: S. K. Kiouis

**Martin Nnamdi Nwodo**

Major: *Design, Construction and Planning*

Dissertation: Investigation of Exergy-Based Life Cycle Assessment of Buildings

Dissertation Chair: C. J. Anumba

**Seth Timothy Nydam**

Major: *Aerospace Engineering*

Dissertation: Design, Testing, and Operations of a Low Resource Optical Precision Timing Instrument for Ground-To-Space Time Synchronization

Dissertation Chair: J. Conklin

**Steven V. Nystrom**

Major: *Chemical Engineering*

Dissertation: Catalysis: Elucidating Kinetics and Trends Using DFT and Experiments

Dissertation Chair: D. Hibbitts

**Aleksandra Ita Olszewska**

Major: *Curriculum and Instruction*

Dissertation: Counter-Stories from Poland: Identities and Language Identities of Adolescent Refugee-Background Students

Dissertation Chair: M. R. Coady



**James M. Orrock**

Major: *Plant Pathology*

Dissertation: Evaluation of Tea (*Camellia sinensis*) as a Novel Crop for Florida

Dissertation Chair: B. S. Richter

Dissertation Co-chair: B. Rathinasabapathi

**Zachary Ben Osking**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: ALS-Linked SOD1 Mutants Enhance Neurite Outgrowth and Disrupt the Actin Cytoskeleton

Dissertation Chair: E. A. Vitriol

**Xiaoshu Pan**

Major: *Chemistry*

Dissertation: Aptamer Engineering for Enhanced Delivery of Functional Proteins and Biomarker Analysis in Cancer Therapy

Dissertation Chair: R. A. Butcher

**Shubham Pandey**

Major: *Materials Science and Engineering*

Dissertation: Evolution of Alloys and Radionuclide Sequestration by First-Principles Calculations

Dissertation Chair: S. R. Phillpot

**Bongsuk Park**

Major: *Civil Engineering*

Dissertation: Reclaimed Asphalt Pavement (RAP) Characterization to Maximize RAP Content in Polymer-Modified Asphalt Mixtures

Dissertation Chair: R. Roque

**Jungyoung Park**

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: Developing a Measure of Preservice Teachers' Metalinguistic Knowledge for Teaching Reading: Evidence-Centered Assessment Design

Dissertation Chair: Z. Fang

**Upasana Parthasarathy**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: E3 Ubiquitin Ligase HECTD3 Acts a Novel Tumor Suppressor in Colon Cancer by Regulating Essential Oncogenic Pathways

Dissertation Chair: D. Avram

**Jayshree Shantibhai Patel**

Major: *Entomology and Nematology*

Dissertation: Biology of the Hybrid Termites of *Coptotermes formosanus* and *C. gestroi* (Blattodea: Rhinotermitidae)

Dissertation Chair: N. Su

**Anirudra Paul**

Major: *Chemistry*

Dissertation: Development of New Methods for  $\alpha$ -C-H Bond Functionalization of Cyclic Amines

Dissertation Chair: D. Seidel

**Joshua Thomas Paul**

Major: *Materials Science and Engineering*

Dissertation: Utilization of High-Throughput Techniques for Materials Discovery and Characterization

Dissertation Chair: R. Hennig

**John M. Peasant Jr.**

Major: *Music Education*

Dissertation: The Exploration of Digital Gamification on Middle School Band Students' Practice Habits

Dissertation Chair: W. Bauer

**Percy A. Peralta**

Major: *Interdisciplinary Ecology*

Dissertation: What Incentivizes Eco-Friendly Coffee Practices in the Peruvian Tropical Andes: Socioeconomic and Environmental Sustainability of Smallholder Coffee Production in the Satipo Province, Peru

Dissertation Chair: K. A. Kainer

Dissertation Co-chair: C. M. Tucker

**Daniel Pimentel**

Major: *Mass Communication*

Dissertation: If I Become the Masses I Will Act: VR Animal Embodiment and Psychic Numbing

Dissertation Chair: S. Kalyanaraman

**Daniella Steiner Kesler Porter**

Major: *Special Education*

Dissertation: Investigating an Experienced Early Childhood Teacher's Process of Developing an Emergent Curriculum

Dissertation Chair: K. M. Kemple

**Brianna Belén Posadas**

Major: *Human-Centered Computing*

Dissertation: Crowdsourcing Ground Truth Data Collection for Precision Agriculture Using a Citizen Science Mobile Application

Dissertation Chair: J. E. Gilbert

**Aditya Mahadev Prakash**

Major: *Industrial and Systems Engineering*

Dissertation: Healthcare Service Operations with Strategic Patients: Modeling and Analysis

Dissertation Chair: X. Zhong

**Julianne Price**

Major: *Psychology*

Dissertation: Hair Cortisol Trajectories from Pre-Treatment to Early Abstinence in Alcohol Use Disorder: A Correlate of Cognitive Recovery

Dissertation Chair: S. J. Nixon

**Niels Olduvai Proctor**

Major: *Forest Resources and Conservation*

Dissertation: Assessing the Use and Benefits of Self-Directed Retrieval Practice in the Authentic Context of an Undergraduate Course

Dissertation Chair: M. C. Monroe

Dissertation Co-chair: P. Antonenko

**Sheryl E. Quail**

Major: *Forest Resources and Conservation*

Minor: *Geography*

Dissertation: REDD, Sustainable Agricultural Intensification, and Land Cover Change Modeling: Analyzing Tradeoffs and Synergies at a REDD Pilot Project in Kilosa District, Tanzania

Dissertation Chair: G. Barnes

Dissertation Co-chair: B. A. Child

**Carlos J. Quintero**

Major: *Soil and Water Sciences*

Dissertation: Geometry Controls on Water and Carbon Fluxes in a Subtropical Karst Wetland Landscape

Dissertation Chair: M. J. Cohen

Dissertation Co-chair: T. Z. Osborne

**Shashank Ranjan**

Major: *Computer Science*

Dissertation: Multispectral Analysis and Visualization Algorithms for Scientific Study of Biological Materials

Dissertation Chair: C. T. Toler-Franklin

**Biswas Rijal**

Major: *Materials Science and Engineering*

Dissertation: First Principle Study of Defects in Materials Surfaces

Dissertation Chair: R. Hennig

**Michael Kenneth Riley II**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Development of Lignin Nanomaterials for the Delivery of Nucleic Acids

Dissertation Chair: W. Vermerris

**Raele Donetha Robison**

Major: *Rehabilitation Science*

Dissertation: Lingual Physiologic Reserve Homeostenosis and Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis

Dissertation Chair: E. K. Plowman

**Kayla B. Rodney**

Major: *English*

Dissertation: Seeking Knowledge: Education Theory in the Literary Works of African American Writers

Dissertation Chair: D. W. King

**Max H. Russo**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Molecular Mechanisms Associated with Adverse Effects of the Environmentally Persistent Organochlorine Pesticide Dieldrin

Dissertation Chair: B. Liu

**Mark Robert Sandfoss**

Major: *Zoology*

Dissertation: Ecological Disturbance and Responses of Florida Cottonmouth Snakes *Agkistrodon conanti* on Seahorse Key, Florida

Dissertation Chair: H. B. Lillywhite

**Ravneet Kaur Sandhu**

Major: *Horticultural Sciences*

Dissertation: Relay Cropping as an Alternative Technique in Vegetables and Strawberry Production for Growers in Florida for Maximizing Economic Returns

Dissertation Chair: N. S. Boyd

**Jay Claus Santos**

Major: *Health and Human Performance*

Dissertation: Antecedents and Consequences of College Athletes' Time Demands

Dissertation Chair: M. Sagas

**Ayush Shekhar Saxena**

Major: *Zoology*

Dissertation: Tempo, Mode, and Fitness Effects of Spontaneous Mutation in *Caenorhabditis elegans*

Dissertation Chair: C. Baer

**Tracey B. Schafer**

Major: *Soil and Water Sciences*

Dissertation: Hurricane Impacts on Water Quality and Dissolved Organic Matter Cycling along an Aquatic Continuum

Dissertation Chair: T. Z. Osborne

Dissertation Co-chair: R. K. Reddy

**Lesley Ann Schumacher**

Major: *Entomology and Nematology*

Dissertation: Sod-Based Rotation for *Rotylenchulus reniformis* Management and Effects on Nematode Community Structure in Peanut-Cotton Systems

Dissertation Chair: Z. Grabau

**Erika Rachel Schwarz**

Major: *Veterinary Medical Sciences*

Dissertation: Development of an Ovine Model of Zika Virus Infection

Dissertation Chair: M. T. Long

**Sarah Kaitlyn Scott**

Major: *Chemistry*

Dissertation: Development of the Enyne Cope Rearrangement for Applications in Complex Molecule Synthesis

Dissertation Chair: A. J. Grenning

**Mathew Sebastian**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Pglyrp3, a Novel Critical Regulator of Breast Cancer Development and Metastasis

Dissertation Chair: D. Tran

Dissertation Co-chair: D. W. Siemann

**Shengchen Shan**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Bridging Genetic and Phenotypic Consequences of Polyploidy: Transcriptome, Methylome, and Transgenic Studies of *Tragopogon* (Asteraceae)

Dissertation Chair: D. E. Soltis

**Tianqi Shan**

Major: *Biomedical Engineering*

Dissertation: Photoacoustic Imaging and Its Application in Congenital Brain Diseases

Dissertation Chair: H. Jiang

**Melanie R. Shapiro**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Insulin-Like Growth Factors as Biomarkers with Immunological Impacts on the Development of Type 1 Diabetes

Dissertation Chair: T. M. Brusko

Dissertation Co-chair: M. A. Atkinson

**Ribhu Sharma**

Major: *Materials Science and Engineering*

Dissertation: An Investigative Study of Dopant Diffusion in Gallium Oxide and Design Optimization of  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> Schottky Rectifiers

Dissertation Chair: M. E. Law

**Alex Justin Shaw**

Major: *Computer Science*

Dissertation: Automatic Recognition of Children's Touchscreen Stroke Gestures

Dissertation Chair: L. Anthony

**Philip L. Shirk**

Major: *Zoology*

Dissertation: Chameleons in a Changing Climate

Dissertation Chair: C. W. Osenberg

**Andrew M. Shirley**

Major: *Plant Pathology*

Dissertation: Chemical Control and Population Dynamics of *Pseudoperonospora cubensis*, the Cause of Cucurbit Downy Mildew in Florida

Dissertation Chair: G. E. Vallad

**Maryada Shrestha**

Major: *Forest Resources and Conservation*

Dissertation: Evaluating Approaches to Estimate Tree and Understory Contributions to Carbon Flux in a Pine Savannah in North Central Florida

Dissertation Chair: J. Vogel



**Alex Purman Smith**

Major: *Political Science*

Dissertation: The Art of Political Negotiation: How Heresthetic Changes Legislative Inertia on Civil Rights

Dissertation Chair: L. C. Dodd

Dissertation Co-chair: B. A. Rosenson

**Garrett Richard Smith**

Major: *Medical Sciences—Neuroscience*

Dissertation: Hippocampal Subregion Transcriptomic Profiles Reflect Strategy Selection during Cognitive Aging

Dissertation Chair: T. C. Foster

**Johnathan David Smith**

Major: *Computer Science*

Dissertation: Analysis of Large Networks with Limited Data

Dissertation Chair: M. T. Thai

**James Gerald Solari**

Major: *Counseling and Counselor Education*

Dissertation: Therapy with Disordered Gamers: An Interpretive Phenomenological Analysis of Counselor Experience

Dissertation Chair: S. C. Echevarria-Doan

**Zachary Anthony Sorrentino**

Major: *Medical Sciences—Neuroscience*

Dissertation: Truncation of Alpha-Synuclein: Implications for Neurodegenerative Diseases

Dissertation Chair: B. I. Giasson

**Michelle Souza Oliveira**

Major: *Plant Pathology*

Dissertation: *Colletotrichum gloeosporioides* Species Complex Characterization and Management of Colletotrichum Crown Rot of Strawberry

Dissertation Chair: N. A. Peres Lauretti

**Lindsay J. Spiers**

Major: *Fisheries and Aquatic Sciences*

Dissertation: The Role of Herbivores in Shaping Coral Reef Macroalgal Communities: Differing Effects of Herbivorous Fish and the Long Spined Sea Urchin *Diadema antillarum*

Dissertation Chair: T. K. Frazer

**Theodor L. Stansly**

Major: *Agronomy*

Dissertation: The Response of Glucosinolates to Biotic and Abiotic Stress on Oilseed *Brassica carinata* in the Southeastern United States

Dissertation Chair: D. L. Wright

Dissertation Co-chair: I. M. Small

**Max David Stein**

Major: *Mechanical Engineering*

Dissertation: Displacement and Static Force Analysis of the General 3-RRR Spherical Parallel Mechanism

Dissertation Chair: C. D. Crane III

**Thanachart Subgranon**

Major: *Civil Engineering*

Dissertation: Fine Lightweight Aggregate-Based Internal Curing-Enhanced Crack Mitigation in Concrete

Dissertation Chair: M. Tia

**Meng Tang**

Major: *Computer Engineering*

Dissertation: Performance Optimization for Sparse Matrix Factorization Algorithms on Hybrid Multicore Architectures

Dissertation Chair: S. Ranka

**Justin Shane Tauscher**

Major: *Counseling and Counselor Education*

Dissertation: Preferences for Technology Based and In-Person Substance Use Disorder Treatment: A Discrete Choice Experiment

Dissertation Chair: M. K. DePue

**Georgina Nicole Thompson**

Major: *Microbiology and Cell Science*

Dissertation: Intercontinental Patterns of Diazotroph Community Assembly among the Ancient Forest of the Northern Hemisphere

Dissertation Chair: E. Triplett

**Trevor B. Tilly**

Major: *Environmental Engineering Sciences*

Dissertation: Improving the Toxicity Assessment of Nanoparticles Using Bioinspired Condensational Particle Growth Mechanism

Dissertation Chair: C. Wu

**Aleksandra Tomic**

Major: *Linguistics*

Dissertation: Codeswitching as a Beneficial Cue in the Processing of Subsequent Speech: Evidence from Eyetracking Studies on Emotionality and Prediction

Dissertation Chair: J. R. Valdes Kroff

**Mohsen Tootoonchi**

Major: *Agronomy*

Dissertation: Ecological Impacts of Climate Change and Saltwater Intrusion on Aquatic and Wetland Plants

Dissertation Chair: L. A. Gettys

Dissertation Co-chair: J. A. Ferrell

**Amanda J. Townsend**

Major: *Astronomy*

Dissertation: Big Science with Small Telescopes: Novel Optical Instrumentation and Compact Object Observations

Dissertation Chair: S. S. Eikenberry

**Trang Theresa Tran**

Major: *Chemistry*

Dissertation: Investigating Polymorphism-Induced Conformational Changes in HIV-1 Protease by Pulsed Electron Paramagnetic Resonance and Molecular Dynamics

Dissertation Chair: G. E. Fanucci

**Prabhanshu Tripathi**

Major: *Chemistry*

Dissertation: Structural Basis of the Self-Resistance Mechanisms in the Colibactin Biosynthetic Pathway

Dissertation Chair: S. D. Bruner

**Kshitiz Upadhyay**

Major: *Mechanical Engineering*

Minor: *Materials Science and Engineering*

Dissertation: On the Mechanics of Visco-Hyperelastic Soft Materials

Dissertation Chair: G. Subhash

**Laura B. Van Voorhis**

Major: *Anthropology*

Dissertation: Prehistoric Denizens of Fort Center, Florida: Osteoarchaeology and Stable Isotope Geochemistry

Dissertation Chair: J. Krigbaum

**Claudia A. Vargas**

Major: *Curriculum and Instruction*

Minor: *Geology*

Dissertation: STEM Identity Development in Minoritized Youth

Dissertation Chair: P. Antonenko

Dissertation Co-chair: B. J. MacFadden

**Cecilia Josefina Vásquez-Pazmiño**

Major: *Anthropology*

Dissertation: The History of the Space in Colta Lake Valley (Chimborazo, Ecuador)

Dissertation Chair: A. Oyuela-Caycedo

**Kyle Jude Michael Ventura**

Major: *Materials Science and Engineering*

Dissertation: Thermodynamic Simulation and Experimental Evaluation of Novel Ni-Based Superalloys

Dissertation Chair: G. E. Fuchs

**Kristen Amelia Walczesky**

Major: *Anthropology*

Dissertation: Totem Poles in the East: An Examination of the Misrepresentation, Silencing, and Forced-Forgetting of Native Americans in the United States

Dissertation Chair: S. D. deFrance

**Glen Harris Walters**

Major: *Electrical and Computer Engineering*

Dissertation: Scaling and Design of Thin Film Ferroelectric Hafnium Oxide for Memory and Logic Devices

Dissertation Chair: T. Nishida

**Wei-en Wang**

Major: *Health and Human Performance*

Dissertation: Neural Dynamics of Pain and Motor Function in Chronic Musculoskeletal Pain

Dissertation Chair: S. A. Coombes

**Xiaojie Wang**

Major: *Industrial and Systems Engineering*

Dissertation: Distributionally Robust Stochastic Optimization in Power System and Healthcare System

Dissertation Chair: Y. Guan

Dissertation Co-chair: X. Zhong

**Kelly A. Wiechman**

Major: *Romance Languages—French and Francophone Studies*

Minor: *Linguistics*

Dissertation: Fugitives and Exiles: Francophone Migration in South Carolina 1562-1810

Dissertation Chair: H. Blondeau

**Ryan Michael Wilhelmi**

Major: *Geology*

Dissertation: Evolution and Exposure of Precambrian Basement along the Western Margin of the Wyoming Province

Dissertation Chair: D. A. Foster

**MacKenzie D. Williams**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Genetic Associations Driving Islet Autoantibody Persistence, Residual Beta Cell Function, and Altered Innate Responses in Type 1 Diabetes

Dissertation Chair: M. A. Atkinson

**Rua Mae Williams**

Major: *Human-Centered Computing*

Dissertation: Metacogs: VR Toolkit for Executive Function Assessment and Metacognitive Strategy Development via Agent-Based Modeling

Dissertation Chair: J. E. Gilbert

**Brandon W. Witbeck**

Major: *Mechanical Engineering*

Dissertation: Molecular Dynamics Simulations of the Impact of Defects on Ni/Al Nanolaminate Combustion

Dissertation Chair: D. Spearot

**Tianyuan Xiao**

Major: *Chemistry*

Dissertation: Synthesis, Characterization and Properties of Nanoparticles and Their Assemblies under High-Pressure and Asymmetric Field

Dissertation Chair: Y. C. Cao

**Yao Xiao**

Major: *Biomedical Engineering*

Dissertation: Multimodal CT Image Quality Enhancement and Radiation Optimization

Dissertation Chair: R. Fang

**Zhengtao Xu**

Major: *Materials Science and Engineering*

Dissertation: Design, Synthesis and Application of Organic Semiconductors in Flat Panel Display and Solar Energy Conversion

Dissertation Chair: J. Xue

**Fang Yao**

Major: *Design, Construction and Planning*

Dissertation: Developing a Data-Driven System for Tracking and Visualizing Urban Geo-Topics: From Retrospective to Real-Time

Dissertation Chair: P. D. Zwick

Dissertation Co-chair: Y. Wang

**Leping You**

Major: *Mass Communication*

Dissertation: The Antecedents and Outcomes of Corporate Political Advocacy: A Scale Development

Dissertation Chair: L. L. Hon

**Bin Yu**

Major: *Epidemiology*

Dissertation: Social Capital and Suicidal Behaviors among Rural-To-Urban Migrants in China

Dissertation Chair: X. Chen

**Yanan Yu**

Major: *Industrial and Systems Engineering*

Dissertation: Convex Hull Pricing and Strong Formulations for Unit Commitment Problem

Dissertation Chair: Y. Guan

**Ruyue Yuan**

Major: *Mathematics*

Dissertation: Portfolio Allocation Using Hidden Markov Chain and Dynamic Programming

Dissertation Chair: M. Rao

**Rola S. Zeidan**

Major: *Veterinary Medical Sciences*

Dissertation: Identifying Mitochondrial-Cell Signaling Networks by Functional Profiling

Dissertation Chair: C. D. Vulpe

**Peilan Zhang**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Characterization of Functional Proteins for Drug Research

Dissertation Chair: Y. Ding

**Shuaifang Zhang**

Major: *Mechanical Engineering*

Dissertation: A Phase-Field Model Describing Fracture in Anisotropic Brittle Materials

Dissertation Chair: M. Tonks

**Yinan Zhao**

Major: *Astronomy*

Dissertation: Development of Algorithms for Detecting Weak Signals in Radial Velocity Data and Quasar Spectra

Dissertation Chair: J. Ge

**Haocheng Zhou**

Major: *Mechanical Engineering*

Dissertation: A MEMS-Based Five-Hole Probe with Optical Pressure Transducers

Dissertation Chair: M. Sheplak

**Zhengbo Zhu**

Major: *Chemistry*

Dissertation: Redox-Neutral C-H Functionalization of Amines and Conjugated-Base-Stabilized Carboxylic Acid Catalysis

Dissertation Chair: D. Seidel

**Rebecca Ann Zimler**

Major: *Entomology and Nematology*

Dissertation: Emergence and Transmission Potential of Zika Virus by Invasive Mosquitoes from Florida and Puerto Rico

Dissertation Chair: B. W. Alto

## DOCTOR OF EDUCATION

---

**Shanda Clarke**

Major: *Curriculum and Instruction*

Dissertation: Closing the Opportunity Gap: Insights into Project-Based Learning with Low-Achieving First Graders

Dissertation Chair: E. Bondy

**Matthew E. Cribbs**

Major: *Curriculum and Instruction*

Dissertation: Using Lesson Study to Implement Inquiry-Based Science Instruction: Insights Gained by Teachers and an Academic Coach

Dissertation Chair: A. Murata

Dissertation Co-chair: N. L. Dana

**Kelli Jo Edgell**

Major: *Educational Leadership*

Dissertation: Proficiency Rate Differences between the Florida Comprehensive Assessment Test and the Florida Standards Assessment in Title I and Non-Title I Schools

Dissertation Chair: C. H. Redding

**Angelic M. Eggert**

Major: *Curriculum and Instruction*

Dissertation: Exploring Teacher Use of iPads in a One-to-One Elementary Environment

Dissertation Chair: S. Kumar

**Stephanie E. Fitzwater**

Major: *Curriculum and Instruction*

Dissertation: Determining Factors that Prompt Mobile Device Management Adoption in K-12 Schools and School Districts

Dissertation Chair: K. M. Dawson

**William A. Hamilton**

Major: *Higher Education Administration*

Dissertation: Exploring the Limits of the Grit Narrative: A Quantitative Case Study of Nontraditional College Student Persistence

Dissertation Chair: D. A. Kramer

**Brittany Matthews-Mijatovic**

Major: *Higher Education Administration*

Dissertation: A Phenomenological Study on the Enrollment Decisions of High-Achieving, Low-Income Students Enrolled in a Community College

Dissertation Chair: J. D. Porter-Roberts

Dissertation Co-chair: C. Haynes

**Deborah J. McDonald**

Major: *Educational Leadership*

Dissertation: Analysis of Collegiate Academic Mentorship Program on Persistence, Leadership Development and Academic Achievement of Underrepresented Populations at West Point

Dissertation Chair: L. B. Eldridge

Dissertation Co-chair: C. H. Redding

**Tara Lynne Orlowski**

Major: *Special Education*

Dissertation: Directors' Use of Strategies to Support Child Care Personnel's Transfer of Learning from Professional Development Activities into the Workplace

Dissertation Chair: K. M. Kemple

**Brittany Rae Rincon**

Major: *Curriculum and Instruction*

Dissertation: Collaborative Coaching for Sharing Teaching Practices: Implementation of a Peer Coaching Model in an Independent School

Dissertation Chair: V. A. Vescio

**Matthew Roger Roy**

Major: *Curriculum and Instruction*

Dissertation: Facilitating Writing Professional Development: A Practitioner Research Study

Dissertation Chair: A. J. Adams

**Stephanie M. Russo-Bischoff**

Major: *Curriculum and Instruction*

Dissertation: Instructional Coaching of Differentiated Instruction in Language Arts Block: Teachers' Perceptions of the Impact on Their Practice

Dissertation Chair: V. A. Vescio

**Rachel Holly Scott**

Major: *Curriculum and Instruction*

Dissertation: Path Analysis of Technology Integration Factors in Magnet Schools

Dissertation Chair: A. D. Ritzhaupt

**Amy Morris Wagner**

Major: *Curriculum and Instruction*

Dissertation: Teacher Driven Professional Development: Exploring Motivation to Engage in Practitioner Inquiry and How to Support Teachers through the Process

Dissertation Chair: A. J. Adams

Dissertation Co-chair: J. L. McLeskey

**Douglas Earl Wendel**

Major: *Higher Education Administration*

Dissertation: Pathways to Success: Effects of Developmental Mathematics Pathway Choice on Subsequent Course Success

Dissertation Chair: D. A. Kramer

**Willie Mae India White**

Major: *Educational Leadership*

Dissertation: Understanding the Persistence of Take Stock in Children Scholarship Recipients

Dissertation Chair: C. H. Redding



## DOCTOR OF AUDIOLOGY

Jamie Bianco  
Brandy Michele Brent  
Alicia Ann D'Itri Chavez  
Patrick E. Cloward  
Kayla Ann Dub  
Carol Anne Ford  
Christina Yoon Young Kim

Brittany Marie Larson  
Lambert Lee  
Guoyi Liu  
Joycelin V. Lopez  
Trevor W. Menchenton  
Holly Ann Mulhern

Mariruth L. Overton  
Elizabeth D. Purdy  
Catherine Sabourin  
Brieanne Louise Salzman  
Lara Marie Shur  
Helen Teresa Simovic  
Hannah E. Weinman

## DOCTOR OF BUSINESS ADMINISTRATION

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## DOCTOR OF PLANT MEDICINE

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## THE COLLEGE OF NURSING

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Kimberly Beers Castillo  
Grace Shim Choe  
Wendy Lucente Cleary  
Caroline Lindy Collins  
Sophie Katherine Cote  
Brent Douglas Cox  
Olivia Janelle de Jong  
Cindy S. Derequito  
Chioma L. Echeazu  
Jamie Lynn Englant  
Zuzanna Fedak  
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Lauren Hope Hughes  
Ajla Hurem  
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Alexa Joseph Joy  
Amy M. Kammerer-Brannon  
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Elizabeth Ansley Liufau  
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Megan H. Lunden  
Eralene Cate Aluague Manangan  
Talia Rose Maschino  
Claire Marie Masforroll  
Leah McCain  
Kelly F. Moss  
Mildred K. Myrtill  
Amelia Nichols Alava  
Emily Legrand Oswald  
Kathryn A. Pinkston

Tonya Kay Powell  
Jean Alexis Rafacz  
Chandra M. Ramos  
Kathleen Rose Renner  
Kristin Marie Rerra  
Sidney Marie Resmondo  
Carly Michelle Robinson  
Randall James Schrenk  
Olivia B. Sims  
Angela Kathleen Stalvey  
Sarah Spivey Stephenson  
Andrea M. Suplick-Zaffuto  
Rachel A. Tax  
Rae McBride Teaf  
Patricia Marie Trnka-Stone  
Kristen L. Troxler  
Rachel Lauren Tucker  
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Ryan Andrew Woodmansee

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Tommy Leon Coffey Jr.  
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Renée Lynn Fontana  
Alexander deHeptner Franklin  
Mariana Rita Franz  
Allison Elizabeth Gaia  
Adriana Lynn Garcia  
Flora Virginia Eleace Gatewood  
Mutsa Mary Godza  
Ryan E. Guettler  
Katherine Broomfield Ihlenfeldt  
Katherine M. Ingerto  
Alison Lynn Irwin  
Jacob R. Irwin

Trevor A. Jackson  
Ethan Ronald Jedziniak  
Bijan Kassebnia  
Albert Joseph Klimczak  
Luke J. LaMarre  
Adam Salvatore Lauretta  
Andrea D. Lazo  
Ryan T. Le  
Jonathan W. Lewis  
Aubrey Logan  
Ashley Anne Lowdermilk  
Brooke N. Lucas

Benjamin A. Matalon  
Erin Brigid Meldrum  
Mackenzie Nicole Morgan  
Matthew D. Oakes  
Kimberly Sapienza Patton  
Carolyn Delaney Payne  
Amanda Peet  
Maria Jean Rademacher  
Erica A. Richardson  
Mitchell Gregory Robbins  
Samuel J. Rose

Courtney Jean Smithgall  
Alec Michael Spano  
Sidney Jane Srivibul  
Dana A. Thomas  
Austin T. Unger  
Lauren Rachael Vigliotti  
Lydia Ware  
Kaitlyn Nicolle Wasson  
Erin Christine Waterman  
Kimberly M. Wilson  
Tori Ann Wilson  
Stephanie A. Zwicker







## 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.



## Diplomas

Diplomas will be mailed to the graduate's diploma mailing address in June 2020.

## Caps and Gowns, An Explanation

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The academic regalia worn by graduating students and faculty at today's commencement ceremonies 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 blue violet; Audiology degrees have colonial blue edging; Business Administration and Accounting are 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 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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### **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**