

# Commencement

**UF** | UNIVERSITY *of*  
**FLORIDA**

## **SOCIAL MEDIA**

Whether you are a #UFGrad or you are here to celebrate a #UFGrad, we invite you to join the commencement conversation on social media. Select tweets will be featured on the video boards prior to and after the ceremony.

## **PHOTOGRAPHS**

The university requests that all commencement guests remain in their seats while taking photographs; no guests are permitted in the graduates' seating area. Photographs of the graduates as they cross the stage are available through companies that have contracts with the university. Color photographs are available from University Photography, PO Box 2454, Tuscaloosa, AL 35403-2454, 205-391-9500.

## **COMMENCEMENT PROGRAM**

Additional copies of this commencement program are available while supplies last at the UF Bookstore for a \$1 donation to the Machen Florida Opportunity Scholars program, which helps fund a UF education for low-income students who are first in their family to attend college. The commencement program can be ordered online with an additional charge for shipping and handling.

## **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.

## **HONOR DESIGNATIONS**

Honors designations in this program are incomplete, tentative, may not properly represent a student's academic accomplishment and are subject to change. Final honors designation will be represented on the official diploma and on the transcript.

Commencement  
**FALL 2017**

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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 2017.

Today's ceremony celebrates 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 advisor, mentors and the family and friends who have supported you in your journey to reach this day.

Today is a day for celebration, and also for reflection on 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 benefited 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 12th president of the University of Florida in January 2015. Under President Fuchs' leadership, the university has developed shared goals for the decade ahead. UF's overarching aspiration is to be a premier comprehensive university that the state, nation and world look to for leadership.

President Fuchs came to UF from Cornell University, where he served as provost. He also served as dean of the Cornell College of Engineering. Before that, he was the head of the School of Electrical and Computer Engineering at Purdue University and a professor in the Department of Electrical and Computer Engineering and the Coordinated Science Laboratory at the University of Illinois. President Fuchs 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. He earned his doctoral degree in electrical engineering from



the University of Illinois. He holds a master's degree in divinity from Trinity Evangelical Divinity School and a bachelor's degree from Duke University.

**UF**

2017 FALL

COMMENCEMENT

# University of Florida Leadership

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**Zach Zachariah**

## President and Vice Presidents of the University

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*Vice President and Chief Information Officer - Information Technology*

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*Vice President - Advancement*

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*Vice President - Research*

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

*Vice President - Business Affairs*

## University of Florida Board of Trustees

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## Deans of the University

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*College of the Arts*

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*College of Journalism and Communications*

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

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*College of Liberal Arts and Sciences*

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*College of Medicine*

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*Interim Dean of Students*



2017 FALL  
COMMENCEMENT

# COMMENCEMENT AGENDA – FRIDAY, DECEMBER 15, 4:00 p.m.

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Presiding	W. Kent Fuchs <i>President</i>
Processional	Gainesville Brass Quintet
National Anthem	Anthony Offerle Gainesville Brass Quintet
Welcome	W. Kent Fuchs
Introductions	Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i>
Commencement Address	Susan Nittrouer <i>Chair of Speech, Language and Hearing Sciences</i>
Presenting Candidates for Doctoral Degrees	Joseph Glover
Conferring of Doctoral Degrees	Anita Zucker <i>Member, UF Board of Trustees</i>
Closing Remarks	W. Kent Fuchs
Alma Mater	Anthony Offerle Gainesville Brass Quintet
Recessional	Gainesville Brass Quintet
Postlude	Gainesville Brass Quintet



# Commencement Speaker

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## **Susan Nittrouer**

*Chair, Speech, Language and Hearing Sciences*

Susan Nittrouer grew up in suburban Philadelphia in a family with a collective enthusiasm for science. For Susan, this interest centered on human communication, and focused on questions such as: Why is human language so complex? How do children learn that complex system, and what goes wrong when they cannot? As a college student at West Chester State University, she had the opportunity to tutor a deaf toddler, whose parents were raising him with spoken language. Part of that responsibility involved ferrying the child back and forth from West Chester to Easton, Pa., where there was a center for teaching spoken language to deaf children. That experience sparked her curiosity concerning the exact nature of the interface between hearing and spoken language.

After completing her bachelor's degree, Susan enrolled at Smith College, where she extended her training in teaching deaf children. Immediately adjacent to the college was Clarke School for the Deaf, a facility established by Alexander Graham Bell, who had a deaf mother. Bell had developed methods for teaching deaf children to talk, and those methods flourished through the twentieth century. It was there that Susan's interest in research regarding language in deaf children was initially sparked.

Working with a faculty member at Smith, she compared various methods of promoting language comprehension by deaf children and tracking their speech production through the use of spectrographic analysis. After receiving her master's degree in deaf education from Smith, Susan taught deaf children for five years in Massachusetts and Montreal, Quebec. But her interest in research was never extinguished, so she entered a doctoral program at City University of New York. While there, she was able to combine studies in speech and hearing sciences to explore how hearing loss specifically interferes with speech perception, and how childhood hearing loss negatively impacts language acquisition. She received her doctorate in 1985 and subsequently did a two-year postdoctoral fellowship at Haskins Laboratories in New Haven, Conn.



Her scholarly interests took her to Omaha, Neb., where she researched language development and childhood hearing loss at the Boys Town National Research Hospital. While there, her interest in the fundamental connections between the kind of signal a person hears and the way the brain processes that signal grew. Susan received her first research grant from the National Institutes of Health in 1988 and has had continuous funding since.

In 2002, Susan joined the faculty at Utah State University where she remained until 2005. She then spent 10 years at The Ohio State University. During these years, her research flourished, with the realization that the parts of the acoustic speech signal to which listeners attend will change as they accumulate experience listening to their first, or native language. Children require a great deal of experience, both hearing and producing speech, to acquire these attentional strategies. Children with dyslexia, a language problem, show similar deficits to children with hearing loss, raising the specter that dyslexia may have at its source perceptual difficulties.

Susan joined the UF faculty in 2015, where she has led the faculty and staff in the Department of Speech, Language, and Hearing Sciences and continues her research. Here she is able to bring her empirical findings full circle to promote new and optimal methods of working with children who struggle to learn the remarkable and complex system that is human language.

# 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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### **Peter Abrahamian**

Major: *Plant Pathology*

Dissertation: Fitness, Molecular Characterization, and Management of Bacterial Leaf Spot in Tomatoes

Dissertation Chair: G. E. Vallad

Dissertation Co-chair: J. B. Jones

### **Manal Othman Abuagela**

Major: *Food Science*

Dissertation: Inactivation of Aflatoxins B<sub>1</sub>, B<sub>2</sub> in Peanuts by Pulsed Light (PL)

Dissertation Chair: P. J. Sarnoski

### **Angie M. Adkin**

Major: *Animal Sciences*

Dissertation: The Characterization of Phytoestrogens in Equine Feeds and Serum

Dissertation Chair: L. K. Warren

### **Nor Hafizah Adnan**

Major: *Curriculum and Instruction*

Dissertation: Cataloging Open Online Learning Design Patterns for Computer Science Courses

Dissertation Chair: A. D. Ritzhaupt

### **Derek L. Allen**

Major: *Forest Resources and Conservation*

Dissertation: Valuing Payments for Forest Water Yield

Dissertation Chair: D. Adams

### **Adel A. Alrwisan**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Azithromycin: An Evaluation of Use and Safety

Dissertation Chair: A. G. Winterstein

### **Jeremy J. Anderson**

Major: *Electrical and Computer Engineering*

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

Dissertation Chair: J. G. Harris

### **Jeffrey Matthew Arciola**

Major: *Chemistry*

Dissertation: Identification and Characterization of Enzymes along the DNJ Biosynthetic Pathway

Dissertation Chair: N. A. Horenstein

### **Sam C. Arden**

Major: *Environmental Engineering Sciences*

Dissertation: Resource Use in the Urban Water System

Dissertation Chair: M. T. Brown

### **George J. Armanious**

Major: *Aerospace Engineering*

Dissertation: Distributed Control of a Flexible Air Vehicle Using an Adaptive Multi-Rate Distributed Kalman Filtering Framework

Dissertation Chair: R. C. Lind Jr.



**Harneet Arora**

Major: *Rehabilitation Science*

Dissertation: Examination of Disease Progression in Upper and Lower Limb Muscles in Boys with DMD Using Functional Clinical Endpoints and Magnetic Resonance Imaging

Dissertation Chair: K. H. Vandenborne

**Jacob T. Atem**

Major: *Public Health*

Dissertation: Risk Factors, Characterization of Diarrheal Morbidity and Mortality among Children under Five (Cu5) Years Old across East Africans Refugee Camps

Dissertation Chair: S. L. McKune

**Carolyn M. Averback**

Major: *Chemistry*

Dissertation: Controlling Phase Behavior of Coordination Polymer Networks and Two-Dimensional Organic-Inorganic Compounds

Dissertation Chair: D. R. Talham

**Eyüp Serdar Ayaz**

Major: *Computer Science*

Dissertation: Geometric Algorithms for Witness Sets and Guard Sets in Piecewise Linear Models

Dissertation Chair: A. Ungor

**Karen Michelle Bailey**

Major: *Interdisciplinary Ecology*

Dissertation: Drought Adaptation among Small-Scale Farmers in Swaziland: Understanding Relationships with Capital, Cognition, and Wellbeing

Dissertation Chair: R. A. McCleery

Dissertation Co-chair: G. Barnes

**Yanmin Bao**

Major: *Linguistics*

Dissertation: The Acquisition of Sociolinguistic Variation: A Longitudinal Study of Second Language Learners of Chinese over a Short-Term Study Abroad Sojourn

Dissertation Chair: H. Blondeau

**Akash K. Basak**

Major: *Chemistry*

Minor: *Pharmaceutical Sciences*

Dissertation: Synthetic Efforts to Develop Novel Antibacterial Agents That Eradicate Persistent Biofilms

Dissertation Chair: R. W. Huigens III

**Sarah Franz Beaudoin**

Major: *Chemistry*

Dissertation: Application of Native and Mutant Threonine Aldolase towards Chemical Synthesis

Dissertation Chair: J. D. Stewart

**Kyle C. Bentz**

Major: *Chemistry*

Dissertation: Next-Generation Polymers for Marine Oil Spill Remediation

Dissertation Chair: D. A. Savin

**Andre Luiz Biscaia Riberio da Silva**

Major: *Horticultural Sciences*

Minor: *Agricultural and Biological Engineering*

Dissertation: Soil Water and Nitrogen Dynamics on Potato BMPs Development

Dissertation Chair: L. Zotarelli

Dissertation Co-chair: M. D. Dukes

**Ariel Blanco**

Major: *Aerospace Engineering*

Dissertation: The Free Molecular Electro Jet (FMEJ) Micro-Thruster for Space Propulsion

Dissertation Chair: S. Roy

**Ryan Andrew Blaustein**

Major: *Soil and Water Sciences*

Dissertation: Defining the Interactions within the Citrus Microbiome during Huanglongbing Disease Progression and in Response to Phytopathogen Removal

Dissertation Chair: M. Teplitski

**Jillian M. Bobel**

Major: *Animal Sciences*

Dissertation: The Ability of Oat Beta Glucans and Stress to Modulate Equine Immune Function

Dissertation Chair: L. K. Warren

**John Michael Boswell**

Major: *Microbiology and Cell Science*

Dissertation: Biochemical and Molecular Characterization of a Subset of Chemosensory Proteins from the Red Imported Fire Ant, *Solenopsis invicta*

Dissertation Chair: N. O. Keyhani

**Evelyn R. Bracho-Sanchez**

Major: *Biomedical Engineering*

Dissertation: Targeted Extracellular Delivery of Indoleamine 2,3 Dioxygenase via Fusion with Galectin-3

Dissertation Chair: B. G. Keselowsky

**Jonathan T. Brooks**

Major: *Mechanical Engineering*

Dissertation: Distributed Coordination of Smart Loads to Provide Ancillary Service to the Power Grid

Dissertation Chair: P. Barooah

**Jarrett N. Brunny**

Major: *Public Health*

Dissertation: Exploring Factors Influencing Healthcare Providers Substance Abuse Screening Behaviors during Routine Prenatal Care

Dissertation Chair: M. E. Young

**Ryan M. Burt**

Major: *Electrical and Computer Engineering*

Dissertation: Finding Objects in Complex Scenes with Top-Down and Bottom-Up Information

Dissertation Chair: J. C. Principe

**Ren Cai**

Major: *Chemistry*

Dissertation: 2D and 3D Supermaterials: Preparation and Artificial Enzyme System

Dissertation Chair: W. Tan

**Cheryl D. Calhoun**

Major: *Curriculum and Instruction*

Dissertation: "We Are Ewits, Hear Us Roar!": Empowering Women in Technology Startups (Ewits) as an Experiential Learning Model to Challenge Gendered Social Norms in the Field

Dissertation Chair: C. R. Beal

**Marlon Edgardo Carranza Zelaya**

Major: *Anthropology*

Dissertation: Homicide, Culture, and the Post-Coup Situation in Northwestern Honduras

Dissertation Chair: R. B. Kernaghan

**Gail Castañeda**

Major: *Public Health*

Minor: *Measurement Methods*

Dissertation: *Assessing Disordered Eating Behaviors in Response to Alcohol Consumption: Weight Conscious Drinking in a Freshman College Cohort*

Dissertation Chair: A. V. Blue

**Indrasis Chakraborty**

Major: *Mechanical Engineering*

Minor: *Mathematics*

Dissertation: *Partial Differential Equation-Based Control of Nonlinear Systems*

Dissertation Chair: W. E. Dixon

**Kimmel Chamat Garces**

Major: *Design, Construction and Planning*

Dissertation: *Optimal Scale of Urban Composting Systems, Life Cycle Sustainability Assessment*

Dissertation Chair: K. I. Frank

**Thomas E. Chestnutt Jr.**

Major: *Environmental Engineering Sciences*

Dissertation: *The Effects of Dissolved Oxygen during the Reactivation of Granular Activated Carbon*

Dissertation Chair: D. W. Mazyck

**Giles William Chickering**

Major: *Environmental Engineering Sciences*

Dissertation: *Quantifying Biogas Production from Municipal Solid Waste*

Dissertation Chair: T. G. Townsend

**Chih-Hsiang Chien**

Major: *Environmental Engineering Sciences*

Dissertation: *Development and Testing of a Novel Size-Selective Personal Sampler for Inorganic Acidic Mists and Gases*

Dissertation Chair: C. Wu

**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

**Yeongbae Choe**

Major: *Health and Human Performance*

Dissertation: *Modeling Factors Distinguishing Market Structure: Implications for Destination Management*

Dissertation Chair: D. R. Fesenmaier

**Inchul Choi**

Major: *Computer Science*

Dissertation: *Multi-Plane Based Occlusion Detection and Correspondence Improvement for Optical Flow*

Dissertation Chair: A. Banerjee

**M. G. Ferdous Chowdhury**

Major: *Horticultural Sciences*

Dissertation: *Postharvest Heat Stress and Semi-Permeable Fruit Coating to Improve Quality and Extend Shelf Life of Citrus Fruit during Ambient Temperature Storage*

Dissertation Chair: J. K. Brecht

Dissertation Co-chair: M. A. Ritenour

**Kyle Will Christensen**

Major: *Mechanical Engineering*

Dissertation: *Layer Formation and Deformation Compensation during Inkjet Printing of 3D Biological Structures*

Dissertation Chair: Y. Huang

**Abigail Susan Clark**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Pathogen, Host, and Environmental Dynamics: A Case Study of *Panulirus argus* Virus 1 in Caribbean Spiny Lobsters

Dissertation Chair: D. C. Behringer, Jr.

Dissertation Co-chair: T. B. Waltzek

**Teresa D. Collins**

Major: *Microbiology and Cell Science*

Dissertation: Amelioration of Systemic Lupus Erythematosus Pathology by Mitigation of Interferon-Gamma Producing T Cells by a Suppressor of Cytokine Signaling-1 (SOCS-1) Mimetic Peptide in the Spontaneous MRL/MpJ-Fas<sup>lpr</sup>/J Mouse Model

Dissertation Chair: J. Larkin III

**Nicole Claire Cox**

Major: *History*

Dissertation: Toxic Treatment: Creosote, the Wood-Preservation Industry, and the Making of Superfund Sites

Dissertation Chair: J. E. Davis

**Paul E. Crittenden**

Major: *Mechanical Engineering*

Dissertation: Numerical Methods for Single and Two-Phase Flow Developed to Determine the Stability of Rapidly Expanding Contact and Particle Interfaces

Dissertation Chair: S. Balachandar

**Melissa Cruz-Acuna**

Major: *Biomedical Engineering*

Dissertation: Magnetic Nanoparticle Remote Control In Vitro: Advantages and Limitations for Transfection

Dissertation Chair: C. Rinaldi

Dissertation Co-chair: J. P. Dobson

**Judit Cserny**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Development of Nanoparticle-Coupled Regulatory T Cell Vaccine for Type 1 Diabetes

Dissertation Chair: T. M. Brusko

**Cheng Cui**

Major: *Chemistry*

Dissertation: Site-Specific Bioconjugation on Proteins and Live Cells Using Aptamer Templates

Dissertation Chair: W. Tan

**David A. Curry**

Major: *Physics*

Dissertation: Measurement of the Standard Model Higgs Boson Produced in Association with a W or Z Boson and Decaying to Bottom Quarks

Dissertation Chair: I. K. Furic

Dissertation Co-chair: J. Konigsberg

**Sreten Cvetojevic**

Major: *Forest Resources and Conservation*

Dissertation: Modelling the Propagation of Information through Twitter with a Review of Twitter Images

Dissertation Chair: H. H. Hochmair

**Mohammad Osamah Dahl**

Major: *Veterinary Medical Sciences*

Dissertation: Pregnancy Loss Attributable to Mastitis in Dairy Cows

Dissertation Chair: J. A. Hernandez

**Xianjin Dai**

Major: *Biomedical Engineering*

Dissertation: Multimodal Endoscopy and Its Application

Dissertation Chair: H. Jiang

**Arnob Das Gupta**

Major: *Mechanical Engineering*

Dissertation: Study of Turbulent Flow Control Using Serpentine Plasma Actuator

Dissertation Chair: S. Roy

**Kelly A. Davidson**

Major: *Food and Resource Economics*

Dissertation: Impacts of Nutrition Messaging on Food Choice and Dietary Diversity in Bangladesh

Dissertation Chair: J. D. Kropp

**Amelia Nadine Deitchman**

Major: *Pharmaceutical Sciences—Pharmacy*

Minor: *Statistics*

Dissertation: The Role of Chelators on Clinical Pharmacokinetics and Pharmacodynamics of Tigecycline

Dissertation Chair: H. C. Derendorf

**Brian J. Demaske**

Major: *Materials Science and Engineering*

Dissertation: Transport and Phase Transitions in Ceramics and Amorphous Metals by Atomic-Level Simulation

Dissertation Chair: S. R. Phillpot

**Christopher Chi-long Deng**

Major: *Chemistry*

Dissertation: Synthesis and Improvement of Self-Healing Boronate Ester Hydrogels

Dissertation Chair: B. S. Sumerlin

**Yujun Deng**

Major: *Design, Construction and Planning*

Dissertation: Understanding Human Mobility and Activity Pattern in Urban Area under Routine and Extreme Conditions

Dissertation Chair: Z. Peng

**Rohan Deepak Dhavalikar**

Major: *Chemical Engineering*

Dissertation: Modeling the Response of Magnetic Nanoparticles to Magnetic Fields in Magnetic Particle Imaging

Dissertation Chair: C. Rinaldi

**Dennis Anthony DiPasquale**

Major: *Mass Communication*

Dissertation: Motivations for Social Media Adoption along the Product Life Cycle

Dissertation Chair: A. J. Coffey

**Peter Jonathan Dobbins**

Major: *Computer Engineering*

Dissertation: Scene Analysis Using the Markov Ground Region Segmentation System (MGRSS)

Dissertation Chair: J. N. Wilson

**Miriam Edith Domínguez**

Major: *Anthropology*

Dissertation: Wares of Knowledge and History: Social Inter-Regional Interaction in the Jubones River Basin, Ecuador (ca. 1,000 B.C.E.)

Dissertation Chair: N. J. Wallis

**Zhipeng Dong**

Major: *Electrical and Computer Engineering*

Dissertation: Modeling and Physics of Low Energy Nanodevices

Dissertation Chair: J. Guo

**Mark Calvin Donop**

Major: *Anthropology*

Dissertation: Bundled Ancestor: The Palmetto Mound (8LV2) on the Florida Gulf Coast

Dissertation Chair: K. E. Sassaman, Jr.

Dissertation Co-chair: N. J. Wallis

**Daniel P. Downes**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Integrated Approach towards Detecting Metabolic Shifts in Response to Drug Administration and Disease by Magnetic Resonance Spectroscopy

Dissertation Chair: J. R. Long

Dissertation Co-chair: M. Febo Vega

**Diego Esparza-Duran**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Sleep, Diurnal Cortisol Rhythm, and Inflammation in Post-Surgical Women with Gynecological Cancer

Dissertation Chair: D. B. Pereira

**Ndubuisi C. Ezeluomba**

Major: *Art History*

Dissertation: Olokun Shrines: Their Functions in the Culture of the Benin Speaking People of Southern Nigeria

Dissertation Chair: R. E. Poynor

**Ahmed Hassan Fahmy**

Major: *Electrical and Computer Engineering*

Dissertation: Mixed-Signal IC Design for Interfacing with Peripheral Nervous System

Dissertation Chair: R. Bashirullah

Dissertation Co-chair: N. Maghari

**Andreas Falke**

Major: *Philosophy*

Dissertation: Excluding Thoroughly: Theories of Causation and Their Impact on the Exclusion Problem

Dissertation Chair: G. Witmer

**Crystal Andrea Felima**

Major: *Anthropology*

Dissertation: Within and Against Critical Mortality: An Anthropological Study of the State, Vulnerability, and Hope through Disaster Narratives in Cap-Haïtien, Haiti

Dissertation Chair: F. V. Harrison

**Guanqiao Feng**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Evolution of Plant 3R-MYB and TIFY Gene Families and Jasmonate Induced Alternative Splicing Responses in *Arabidopsis*

Dissertation Chair: W. B. Barbazuk

**Oscar Figueroa III**

Major: *Materials Science and Engineering*

Dissertation: Design of High Strength Shape Memory Alloys in the Ni-Ti-Ga Ternary System

Dissertation Chair: M. V. Myers

**Pauline Marie Martine Fontaine**

Major: *Zoology*

Dissertation: The Transcription Factor SKN-1 Confers Resistance to Benzimidazole Drugs in *Caenorhabditis elegans* via the Phase II Drug Detoxification Gene UGT-22

Dissertation Chair: K. P. Choe

**Jennifer Paige Forshee**

Major: *Political Science*

Dissertation: The Mirage of Journey: The Theoretical Foundations and Practical Applications of Martha Nussbaum's Capabilities Approach

Dissertation Chair: L. P. Thiele

**Xiangyu Fu**

Major: *Materials Science and Engineering*

Dissertation: Optical Study of Light Extraction in Corrugated Organic Light Emitting Diodes

Dissertation Chair: F. F. So

**Alma Y. Garcia Rodriguez**

Major: *Romance Languages—Spanish*

Dissertation: *La bifurcacion de la ciudad neobarroca Hispano Caribena: La Habana, San Juan y Santo Domingo como espacios carnavalescos y contranarrativos en seis novelas del Caribe Hispano*

Dissertation Chair: E. Barradas

**Aaron Thomas Garrison**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: *Discovery and Development of Halogenated Phenazines and Halogenated Quinolines as Biofilm-Eradicating Agents*

Dissertation Chair: R. W. Huigens III

**Andrée Sherlon George**

Major: *Soil and Water Sciences*

Dissertation: *Conditions That Allow Salmonella to Proliferate within Tomatoes*

Dissertation Chair: M. Teplitski

Dissertation Co-chair: A. V. Ogram

**Ryan Michael Goetz**

Major: *Physics*

Dissertation: *A Low Loss Faraday Isolator for Squeezing Injection in Advanced LIGO, and Radio-Frequency Amplitude Modulation*

Dissertation Chair: D. B. Tanner

**Sean Louis Goldberg**

Major: *Computer Engineering*

Dissertation: *Active Graph Inference in Knowledge Bases*

Dissertation Chair: Z. Wang

Dissertation Co-chair: J. N. Wilson

**Jessica L. Gouldthorpe O'Leary**

Major: *Agricultural Education and Communication*

Dissertation: *Understanding the University-Based Extension and Small-Scale Farmer Interactions: A Cross-Case Analysis between the Systems of Florida and Scotland*

Dissertation Chair: G. D. Israel

**David McCaskill Gray**

Major: *Electrical and Computer Engineering*

Dissertation: *Classifier Training Set Augmentation by Warping Synthetic Data in a Subspace Manifold*

Dissertation Chair: J. C. Principe

Dissertation Co-chair: J. G. Harris

**Zongni Gu**

Major: *Design, Construction and Planning*

Dissertation: *A Two-Stage Transportation Safety Resilience Measurement Using Data Envelopment Analysis Method*

Dissertation Chair: I. Bejleri

**Jing Guan**

Major: *Interdisciplinary Ecology*

Dissertation: *Studies and Simulative Models on Epiphytic Algae Caused Light Attenuation and Concurrent Growth Obstacles on Macrophytes in a Spring-fed River, Florida (USA)*

Dissertation Chair: T. K. Frazer

Dissertation Co-chair: C. A. Jacoby

**Fernanda Pohl Guimarães**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: *RNA-Modified T Cell as a Tool to Deliver Immunomodulatory Agents to Brain Tumor*

Dissertation Chair: D. Mitchell

**Alican Gulsevin**

Major: *Chemistry*

Dissertation: A Comparative Analysis of the Principles behind  $\alpha 7$  Nicotinic Acetylcholine Receptor Function

Dissertation Chair: N. A. Horenstein

**Zimu Guo**

Major: *Electrical and Computer Engineering*

Dissertation: A Framework for Securing Digital Systems against Counterfeiting, Reverse Engineering and Tampering

Dissertation Chair: D. J. Forte

**Matthew T. Hallett**

Major: *Interdisciplinary Ecology*

Dissertation: Landscape-Scale Research as a Tool for Engaging Communities in a Shared Learning Process in the Rupununi Region of Guyana

Dissertation Chair: J. G. Blake

Dissertation Co-chair: B. A. Loiselle

**Matthew Joseph Hamm**

Major: *Medical Sciences—Neuroscience*

Dissertation: Investigating LRRK2 and Tau Interaction in Neurodegenerative Disease

Dissertation Chair: J. M. Lewis

Dissertation Co-chair: B. I. Giasson

**Hyunsuk Han**

Major: *Research and Evaluation Methodology*

Dissertation: Evaluating Local Independence in Rasch Models with WLSMV Global Fit Indices

Dissertation Chair: A. C. Manley

**Matthew T. Harrigan**

Major: *Political Science*

Dissertation: The House Shall Choose Their Speaker: Rethinking Agenda Control in the House of Representatives

Dissertation Chair: L. C. Dodd

**William C. Hedderson**

Major: *Health and Human Performance*

Dissertation: The Effects of Propranolol on Acute Inflammatory Cytokines and Muscle Function following an Exercise-Induced Muscle Injury to the Shoulder in Individuals with a High Pain Sensitivity COMT Polymorphism

Dissertation Chair: P. A. Borsa

**Marc Tobias Heinrichs**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Target Site Pharmacokinetics of Moxifloxacin, Linezolid and Pyrazinamide in Patients with Multidrug-Resistant Tuberculosis, and Dose Optimization Based on Pharmacokinetic-Pharmacodynamic Modeling and Simulation

Dissertation Chair: H. C. Derendorf

**Darren Dwayne Henry**

Major: *Animal Sciences*

Dissertation: Effects of Bismuth Subsalicylate and Calcium-Ammonium Nitrate on Beef Cattle Production

Dissertation Chair: N. DiLorenzo

**Megan R. Hill**

Major: *Chemistry*

Dissertation: Stimuli-Responsive and Degradable Polymers

Dissertation Chair: B. S. Sumerlin

**William Parker Hinson**

Major: *Public Health*

Dissertation: Utilizing an Integrative Spatial-Behavioral Approach to Investigate Distracted Driving and Mobile Device Use on a College Campus

Dissertation Chair: M. D. Moorhouse



**Richard Groth Jones Hodel**

Major: *Botany*

Dissertation: Comparative Phylogeography and Ecological Niche Modeling of Three Neotropical Mangrove Species

Dissertation Chair: D. E. Soltis

Dissertation Co-chair: P. S. Soltis

**David Clifton Holden Jr.**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: The Medical Science of Cell-Free Circulating Mitochondrial and Nuclear DNA in the Host Response to Sepsis, Trauma, and Transplant

Dissertation Chair: L. L. Moldawer

**Marcus J. Hooper**

Major: *Medical Sciences—Genetics*

Dissertation: The Role of Toll-Like Receptor 2 and Endothelins in Endogenous Retinal Neuroprotection

Dissertation Chair: J. Ash

**Jie Hou**

Major: *Physics*

Dissertation: Gate Modulated Carbon Nanotube Silicon Schottky Junction Devices

Dissertation Chair: A. G. Rinzler

**Lisa A. Howell**

Major: *Anthropology*

Dissertation: Anthropology at the Confluence: Intersections of Science and Community in Rural Communities

Dissertation Chair: B. H. Chalfin

**Benjamin Adam Hughes**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Cryopreservation and In Vitro Techniques for the Conservation of Florida Native Orchids

Dissertation Chair: M. E. Kane

**Veronica Saffran Hughes**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Complications in Current Preclinical and Clinical Assessments of Anticancer c-Met Targeting Therapy

Dissertation Chair: D. W. Siemann

**Timothy J. Ironman**

Major: *Nuclear Engineering Sciences*

Dissertation: An Exploration of the Viability of Spark Plasma Sintering for the Commercial Fabrication of Nuclear Fuel Pellets

Dissertation Chair: J. S. Tulenko

**Brittany Yi Jacobs**

Major: *Biomedical Engineering*

Dissertation: Pathologic Gait In Osteoarthritis Models: Characterization and Treatment

Dissertation Chair: K. Allen

Dissertation Co-chair: K. R. Vincent

**Kimberly Susan Smith Jarczyk**

Major: *Nursing Sciences*

Dissertation: A Within-Subjects Comparison of Two Antegrade Flushing Regimens in Children

Dissertation Chair: P. Pieper

**Shaun P. Jensen**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Citrus Biotechnology: Bringing Citrus into the 21st Century

Dissertation Chair: G. A. Moore

**Kyuho Jeong**

Major: *Electrical and Computer Engineering*

Dissertation: SDN and Overlay Network Hybrid System for Scalable and High-Performance Network Virtualization

Dissertation Chair: R. J. Figueiredo

**Yuan Jiang**

Major: *Food and Resource Economics*

Dissertation: Analysis of Consumption Behaviours and Market Structure with Excess Zero and Over-Dispersion

Dissertation Chair: L. A. House

**Ara Jo**

Major: *Health Services Research*

Dissertation: Development of Cardiovascular Disease Risk Score by Adding a Body Composition Assessment

Dissertation Chair: A. G. Mainous III

**Soowon Jo**

Major: *Curriculum and Instruction*

Dissertation: A Study of Common Core English Language Arts K-3 Text Exemplar Picture Books

Dissertation Chair: D. Fu

**Christopher Agustin Johns**

Major: *Zoology*

Dissertation: The Evolutionary History of Hawaiian Leaf-Mining Moths in the Genus *Philodoria* (Gracillariidae: Lepidoptera)

Dissertation Chair: A. Kawahara

**Andrew Javan Johnson**

Major: *Forest Resources and Conservation*

Dissertation: Resolving the Pygmy Borers (*Curculionidae: Scolytinae: Cryphalini*)

Dissertation Chair: J. Hulcr

**Nathan A. Johnson**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Genetic Investigations Reveal New Insights into the Diversity, Distribution, and Life History of Freshwater Mussels (*Bivalvia: Unionidae*) Inhabiting the Gulf-Atlantic Coastal Plain

Dissertation Chair: J. D. Austin

**Austin L. Jones**

Major: *Chemistry*

Dissertation: Electron Transfer in Donor-Acceptor Conjugated Oligomers

Dissertation Chair: K. S. Schanze

**Mary Catherine Schell Jordan**

Major: *Higher Education Administration*

Dissertation: Veterans in Higher Education: An Investigation of Factors Associated with Persistence

Dissertation Chair: D. A. Kramer

**Dana Lynn Karelus**

Major: *Interdisciplinary Ecology*

Dissertation: Home Ranges, Movement Patterns, and Habitat Use of a Newly Colonized Population of Florida Black Bears (*Ursus americanus floridanus*) in a Fragmented Florida Landscape

Dissertation Chair: M. K. Oli

**Eutyechus Mukure Kariuki**

Major: *Entomology and Nematology*

Dissertation: Impact, Field Host Range, and Vertical Foraging Range of *Cricotopus lebetis* Sublette (Diptera: Chironomidae), a Biological Control Agent of *Hydrilla verticillata* [L.f] Royle (Hydrocharitaceae)

Dissertation Chair: R. L. Hix

Dissertation Co-chair: J. P. Cuda

**Johannes Kast**

Major: *Pharmaceutical Sciences*

Dissertation: Electroencephalogram: A Biomarker to Assess Pharmacodynamic Effects of Alertness-Affecting Drugs on Earth and in Space

Dissertation Chair: H. C. Derendorf

**Heather Rose Kates**

Major: *Genetics and Genomics*

Dissertation: Genetics and Evolution of Multiple Domesticated Squashes and Pumpkins (*Cucurbita*, Cucurbitaceae)

Dissertation Chair: P. S. Soltis

Dissertation Co-chair: D. E. Soltis

**Shivani Rajeshwori Khan**

Major: *Epidemiology*

Dissertation: Predictors of Daily Marijuana Use among a National Sample of U.S. Youth

Dissertation Chair: C. L. Striley

**Jung Lyun Kim**

Major: *Nursing Sciences*

Dissertation: Psychological Distress and Pain from Pressure Injury in Hospitalized Adults

Dissertation Chair: D. Lyon

**Mi-Jung Kim**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Mitochondrial DNA Deletions in Age-Related Hearing Loss in Mice

Dissertation Chair: S. Someya

**Chase Billingsley Kimmel**

Major: *Entomology and Nematology*

Dissertation: The Importance of Fire Management for Conserving Flower-Visiting Insect Diversity in a Longleaf Pine Sandhill Forest

Dissertation Chair: J. C. Daniels

**Andrew R. Kitto**

Major: *Business Administration—Accounting*

Dissertation: The Effects of Small Audit Firm Mergers on Audit Efficiency and Audit Market Competition

Dissertation Chair: W. R. Knechel

**Geraldine Klarenberg**

Major: *Agricultural and Biological Engineering*

Dissertation: Changes in Vegetation Dynamics in a Socio-Ecological System in the Southwest Amazon Subject to Road Paving

Dissertation Chair: R. Munoz-Carpena

Dissertation Co-chair: G. A. Kiker

**Jeremy P. Koelmel**

Major: *Chemistry*

Dissertation: A Modular Open Source Workflow for Lipidomics Using Liquid Chromatography High Resolution Tandem Mass Spectrometry (UHPLC-HRMS/MS)

Dissertation Chair: R. A. Yost

**Leticia M. Kumar**

Major: *Horticultural Sciences*

Dissertation: Assessing Disease Management Potential and Identifying Regions Associated with the Non-Blighting Trait in Tomatoes

Dissertation Chair: S. F. Hutton

**Joanne Margaret Laframboise-Otto**

Major: *Nursing Sciences*

Minor: *Educational Leadership*

Dissertation: Use of Music Listening to Enhance Acute Surgical Pain Management with Patients Undergoing Orthopedic Surgery

Dissertation Chair: A. L. Horgas

**Emily Helen Lakes**

Major: *Biomedical Engineering*

Dissertation: Advancing Methods for Multiscale Mechanics in Orthopaedic Research

Dissertation Chair: K. Allen

**Kevin William Langdon**

Major: *Entomology and Nematology*

Dissertation: Optimizing the Use of Soil-Applied Neonicotinoids for Control of *Diaphorina Citri* Kuwayama (Hemiptera: Liviidae) in Young Citrus Trees

Dissertation Chair: M. E. Rogers

**Amy Kathleen Langston**

Major: *Environmental Engineering Sciences*

Dissertation: A Shifting Mosaic: Climate Change and Biotic Controls Drive Changes in Coastal Forests along Florida's Big Bend Coast

Dissertation Chair: D. A. Kaplan

**Marie Jennifer Lauture**

Major: *Forest Resources and Conservation*

Dissertation: Reinvigorating Oleoresin Collection in the Southeast USA: Evaluation of Chemical Inducers, Stand Management, Tree Characteristics, and Genetics

Dissertation Chair: G. F. Peter

**Jae Hwa Lee**

Major: *Design, Construction and Planning*

Dissertation: Building Creative Confidence through Transformative Learning: Lessons from First-Year College Students

Dissertation Chair: M. B. Portillo

**Jeffrey A. Leibowitz**

Major: *Biomedical Engineering*

Dissertation: Somatostatin Gene Therapy for Temporal Lobe Epilepsy and Its Effects on Adult Neurogenesis and Neuroinflammation

Dissertation Chair: B. K. Ormerod

**Ang Li**

Major: *Physics*

Dissertation: Fundamental Studies of Van der Waals Schottky/Tunnel Junctions Utilizing Novel Layered Materials

Dissertation Chair: A. F. Hebard

**Jiade Li**

Major: *Electrical and Computer Engineering*

Dissertation: A Framework for Intelligent Network and Security

Dissertation Chair: D. Wu

**Zhangbo Li**

Major: *Materials Science and Engineering*

Dissertation: Effect of Neutron Irradiation and Thermal Aging on Cast Austenitic Stainless Steel and Stainless Steel Weld Phase Stability

Dissertation Chair: Y. Yang

**Ryan A. Licitra**

Major: *Mechanical Engineering*

Dissertation: Autonomous Herding of Uncontrolled Uncertain Agents: A Switched Systems Approach

Dissertation Chair: W. E. Dixon

**Chao Liu**

Major: *Design, Construction and Planning*

Dissertation: Exploring Urban PM2.5 Pollution Burdens and Planning Strategies Using Data Mining and System Modeling Methods

Dissertation Chair: Z. Peng

**Kyle James Lorentsen**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Transcription Factor Bcl11b Is Essential for Licensing Murine Th2 Differentiation In Vivo

Dissertation Chair: D. Avram

**Tyler Michael Lovelly**

Major: *Electrical and Computer Engineering*

Dissertation: Comparative Analysis of Space-Grade Processors

Dissertation Chair: A. D. George

**Nargiza Ludgate**

Major: *Interdisciplinary Ecology*

Dissertation: Gender Roles in Household Water Resource Management in Water-Scarce Countries: Does Greywater Treatment Technology Empower Rural Women in Jordan?

Dissertation Chair: S. L. Russo

Dissertation Co-chair: T. Borisova

**Li Luo**

Major: *Special Education*

Minor: *Research and Evaluation Methodology*

Dissertation: Development and Validation of a Questionnaire Used to Evaluate Chinese Preschool Teachers' Perspectives about Social, Emotional, and Behavioral Teaching Practices

Dissertation Chair: P. Snyder

**Daniel A. Mancero Castillo**

Major: *Horticultural Sciences*

Dissertation: Detection and Introgression of a Major Source for Resistance to Peach Fungal Gummosis Caused by *Botryosphaeria dothidea*

Dissertation Chair: J. X. Chaparro

**Naveen Mangal**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: How Quantitative Clinical Pharmacology Can Bring Value to the Patient

Dissertation Chair: S. Schmidt

**Mary Ann Dy Maquilan**

Major: *Horticultural Sciences*

Dissertation: Rootstock Breeding for Resistance to the Peach Root-Knot Nematode *Meloidogyne floridensis*

Dissertation Chair: M. A. Olmstead

Dissertation Co-chair: J. X. Chaparro

**Chad Ryan Maxwell**

Major: *Anthropology*

Dissertation: Anthropology's Fitness: Competitive Challenges and Potential Paths Forward

Dissertation Chair: C. McCarty

Dissertation Co-chair: H. R. Bernard

**James J. McCarthy**

Major: *Interdisciplinary Ecology*

Dissertation: The Dynamics of Corporate Sustainability and Performance

Dissertation Chair: R. Ries

**John Paul McCary**

Major: *Environmental Engineering Sciences*

Dissertation: Value of High-Frequency Water Use Data for Evaluating Peak Water Use, Leaks, and Breaks on the Customer Side of the Meter

Dissertation Chair: J. Heaney

**Jame Elizabeth McCray**

Major: *Wildlife Ecology and Conservation*

Dissertation: Sea Turtle Friendly Lighting in Florida: A Multi-Level Evaluation of Policy Implementation and Effectiveness

Dissertation Chair: R. R. Carthy

Dissertation Co-chair: S. Jacobson

**Timoteo R. Mesh**

Major: *Anthropology*

Dissertation: Alcaldes of Toledo, Belize: Their Genealogy, Contestation, and Aspirations

Dissertation Chair: M. M. Stoilkova

**Kylie J. Mitchell**

Major: *Chemistry*

Dissertation: Molecular Routes to Monodisperse Cerium-Oxide Nanoparticles, and a Magnetostructural Correlation for Polynuclear Iron-Oxide Clusters

Dissertation Chair: G. Christou

**Iwan E. Molgo**

Major: *Botany*

Dissertation: The Evolution and Systematics of the *Callisia* section *Cuthbertia* Complex (Commelinaceae)

Dissertation Chair: P. S. Soltis

**Marissa S. Molinar**

Major: *Anthropology*

Dissertation: Drawing the World: Coso Range Archaic Rock Art as Performance, Community, and Cosmology

Dissertation Chair: K. E. Sassaman, Jr.

**Ashley Nicole Mortensen**

Major: *Entomology and Nematology*

Dissertation: Behavioral and Morphological Effects of In Vitro Larval Rearing on Adult Honey Bees, *Apis mellifera* L.

Dissertation Chair: J. Ellis

**Marta Moura Kohmann**

Major: *Agronomy*

Dissertation: Rhizoma Peanut Proportion in Mixed-Species Pastures with Bahiagrass Affects Nutrient Cycling and Greenhouse Gas Emissions

Dissertation Chair: L. E. Sollenberger

Dissertation Co-chair: J. C. Dubeux

**Shrijit Mukherjee**

Major: *Electrical and Computer Engineering*

Dissertation: Dynamic Performance Simulation of AlGaIn/GaN High Electron Mobility Transistors

Dissertation Chair: M. E. Law

**Lindsay J. Mullenix**

Major: *Materials Science and Engineering*

Dissertation: Evaluation of Solution Heat Treatment and Creep Properties of CMSX-8 B/C for Industrial Gas Turbines

Dissertation Chair: G. E. Fuchs

**Jennifer M. Mundt**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: An Examination of Pain's Relationship to Sleep Fragmentation and Disordered Breathing across Common Sleep Disorders

Dissertation Chair: M. E. Robinson

**Anna Kapambwe Mwaba**

Major: *Political Science*

Dissertation: Monitoring Elections in Africa: Investigating the Role of Regional Actors

Dissertation Chair: B. J. Moraski

**Carolynn Sue Nath Komanski**

Major: *Agricultural Education and Communication*

Dissertation: Factors Influencing Women Faculty Transitioning into Tenured Academic Roles at Land-Grant Institutions within Colleges of Agriculture

Dissertation Chair: N. L. Stedman

**Jordan Matthew Neil**

Major: *Mass Communication*

Dissertation: Increasing Patient Adherence to Fecal Immunochemical Testing: A Translational Cancer Communication Intervention

Dissertation Chair: K. B. Walsh-Childers

Dissertation Co-chair: J. Raup-Krieger

**Adam Steven Nickels**

Major: *Aerospace Engineering*

Dissertation: Experimental-Based Estimation and Identification of Turbulence Generated Acoustics

Dissertation Chair: L. S. Ukeiley

**Ethan R. Nielsen**

Major: *Horticultural Sciences*

Dissertation: Exploitation of Pummelo (*Citrus maxima* (Burm.) Merrill) through Breeding, Ploidy Manipulation, and Interstocks for Improvement of Cultivated Citrus

Dissertation Chair: J. W. Grosser

**Scott A. Nivison**

Major: *Electrical and Computer Engineering*

Dissertation: Sparse and Deep Learning Based Nonlinear Flight Control Design with Hypersonic Flight Applications

Dissertation Chair: P. P. Khargonekar

**Elena Ortiz Acevedo**

Major: *Entomology and Nematology*

Dissertation: Insights into the Origin and Evolution of Preonine Butterflies

Dissertation Chair: K. R. Willmott

**Alma Hamdallah Othman**

Major: *Design, Construction and Planning*

Dissertation: Correlating Urban Design Qualities to Perceived Density Using 3D Computer Simulation

Dissertation Chair: I. Bejleri

Dissertation Co-chair: P. D. Zwick

**Mehmet Ozdes**

Major: *Geography*

Dissertation: Savanna Vegetation Change in Protected Areas of Southern Africa

Dissertation Chair: J. Southworth

**Andrew S. Padgett**

Major: *Physics*

Dissertation: Low-Temperature Properties of Three Novel Quantum Solids

Dissertation Chair: Y. Takano

**Sarah Elisa Page**

Major: *Anthropology*

Dissertation: No Solace in the Glass Closet: LGBTQ Activists Struggle for Human Rights in Jamaica

Dissertation Chair: F. V. Harrison

Dissertation Co-chair: M. M. Stoilkova

**Andrea Joy Pain**

Major: *Geology*

Dissertation: Submarine Groundwater Discharge and the Coastal Carbon Cycle: Feedbacks in Carbonate versus Siliciclastic Subterranean Estuaries

Dissertation Chair: J. B. Martin

**Sebastian Palmas Perez**

Major: *Forest Resources and Conservation*

Dissertation: Simulation Models for Natural Mixed Forests in Chile and Mexico

Dissertation Chair: S. Gezan

**Smrittee Kala Panta**

Major: *Health and Human Performance*

Dissertation: Decentralized Conservation and Livelihood Sustainability: Analysis of Buffer Zone Program in Bardia National Park, Nepal

Dissertation Chair: B. Thapa

Dissertation Co-chair: S. L. Russo

**Kendra L. Patterson**

Major: *Political Science*

Dissertation: Treaties as Endogenous to State Interests: Politicization and Securitization of International Water Treaties in Bilateral Riparian Relationships

Dissertation Chair: L. E. Sjoberg

**Ramesh Paudyal**

Major: *Forest Resources and Conservation*

Dissertation: Motivational, Forest Management, and Climatic Factors Affecting Outdoor Recreation Participation and Experience in Florida

Dissertation Chair: T. V. Stein

**Cheng Peng**

Major: *Materials Science and Engineering*

Dissertation: Light Extraction and Degradation Mechanism Study of Organic Light Emitting Diodes

Dissertation Chair: F. F. So

**Yang Peng**

Major: *Computer Science*

Dissertation: Multimodal Fusion: A New Theory and Applications

Dissertation Chair: Z. Wang

**Barbara Anisley Perez**

Major: *Medical Sciences—Neuroscience*

Dissertation: Molecular Mechanisms of Reduced Penetrance and Therapeutic Approaches in Spinocerebellar ataxia type 8 (SCA8)

Dissertation Chair: L. P. Ranum

**Esther Vita Piervil**

Major: *Public Health*

Dissertation: Understanding the Needs, Experiences, and Influence of Family Caregivers in the Black Community Across the Prostate Cancer Continuum of Care

Dissertation Chair: M. E. Young

**Catia Sofia Pinho Da Silva**

Major: *Electrical and Computer Engineering*

Dissertation: A Framework for Spatiotemporal Quantification of Neural Functional Connectivity

Dissertation Chair: J. C. Principe

**Mary G. Puckett**

Major: *Religion*

Dissertation: The Cosmopolitanization of the Luz del Mundo

Dissertation Chair: A. Peterson



**Emily Marie Pukuma**

Major: *Political Science*

Dissertation: British Colonial Legacies and Democratic Survival

Dissertation Chair: B. B. Smith

**Ramon Joselito Macaranas Pulido**

Major: *Physics*

Dissertation: Precious Metal Reduction in Near-Neutral pH and PEM Electrolyzers through Activated Graphitic Carbon Cathode and Mixed Oxide Anode Development

Dissertation Chair: A. G. Rinzler

**Syed Hafizur Rahman**

Major: *Statistics*

Dissertation: Cholesky-Based Model Selection and Estimation in Graphical Models

Dissertation Chair: K. Khare

**Sruti Rayaprolu**

Major: *Medical Sciences—Neuroscience*

Dissertation: Using Mouse Models to Understand Pleiotropic Neurodegenerative Disorders

Dissertation Chair: J. M. Lewis

**Lawrence Edward Reeves**

Major: *Entomology and Nematology*

Dissertation: Mosquito Blood Meal-Derived Environmental DNA: Conservation and Epidemiological Applications of Biodiversity Surveys Based on Molecular Identification of Mosquito Hosts

Dissertation Chair: A. Kawahara

**Elizabeth Cannon Rich**

Major: *Higher Education Administration*

Dissertation: Higher Education Participation during Incarceration and the Reduction of Post-Release Recidivism

Dissertation Chair: J. C. Ortagus

Dissertation Co-chair: D. Miller

**Tracey Ann Ritchie**

Major: *Forest Resources and Conservation*

Dissertation: Developing and Measuring Systems Thinking Skills in Students and Teachers

Dissertation Chair: M. C. Monroe

**Christopher D. Roland**

Major: *Chemistry*

Dissertation: Cyclic Polymers from Alkynes Using Group (VI) Catalysts

Dissertation Chair: A. S. Veige

**Lucas M. Rolison**

Major: *Nuclear Engineering Sciences*

Dissertation: Development of X-ray Backscatter Techniques for Imaging Tomosynthesis

Dissertation Chair: J. E. Bacia

**Yue Rong**

Major: *Agricultural and Biological Engineering*

Dissertation: Development of a Biosensor for Rapid Diagnosis Ketoacidosis Based on Insect-Derived Chemosensory Proteins

Dissertation Chair: E. McLamore

Dissertation Co-chair: Z. Tong

**Scott J. Rothberg**

Major: *Design, Construction and Planning*

Dissertation: Florida's Fireprints: Exploring Spatiotemporal Differences in Fire, Weather, and Land Use Relationships

Dissertation Chair: P. D. Zwick

**Norsazilawati Binti Saad**

Major: *Plant Pathology*

Dissertation: Discovery of Known and Novel Viruses in Wild and Cultivated Blueberry through Transcriptomic and Viral Metagenomics Approach

Dissertation Chair: P. F. Harmon

**Shenae K. Samuels**

Major: *Health Services Research*

Dissertation: The Early Impact of Medicaid Expansion on Health Care Access and Utilization among Individuals with Ambulatory Care Sensitive Conditions

Dissertation Chair: R. P. Duncan

**Clayton Pio Santiago**

Major: *Medical Sciences—Genetics*

Dissertation: Characterizing the Regulation of Leukemia Inhibitory Factor and Developing a Novel Drug Regulatable Neurokine to Treat Retinal Degeneration

Dissertation Chair: J. Ash

**Kristen E. Sauby**

Major: *Zoology*

Dissertation: Quantifying the Consequences of Herbivory on *Opuntia* Populations through the Use of an Improved Sampling Design and Vital Rate and Population Dynamics Analyses

Dissertation Chair: R. D. Holt

Dissertation Co-chair: M. C. Christman

**Nathan R. Sauder**

Major: *Mechanical Engineering*

Dissertation: Predicting Optimal Fast Functional Electrical Stimulation Patterns for Post-Stroke Gait Neurorehabilitation

Dissertation Chair: D. W. Hahn

**Uta Schilling**

Major: *Pharmaceutical Sciences—Pharmacy*

Minor: *Statistics*

Dissertation: Pharmacokinetics of Inhaled and Intranasal Corticosteroids

Dissertation Chair: G. Hochhaus

**Timothy P. Schlittenhardt**

Major: *Physics*

Dissertation: Modeling Morphology Dependence of the Power Generation in Bulk Heterojunction Organic Photovoltaics

Dissertation Chair: S. P. Hershfield

**Sarah Kiley Schoff**

Major: *Anthropology*

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

Dissertation Chair: M. W. Warren

**Saif Asif Shaikh**

Major: *Chemical Engineering*

Dissertation: Dynamics and Rheology of Concentrated Suspensions of Rigid Fibers

Dissertation Chair: J. E. Butler

**Allyson E. Shea**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Uropathogenic *Escherichia coli* Mechanisms of Intracellular Invasion

Dissertation Chair: Y. Daaka

**Zachary Siders**

Major: *Fisheries and Aquatic Sciences*

Dissertation: The Role of Habitat in Aquatic Intra- and Interspecific Interactions

Dissertation Chair: M. S. Allen

Dissertation Co-chair: R. Ahrens

**Erica A. Simmons**

Major: *Chemistry*

Dissertation: Exploration and Optimization of Three Enzymatic Routes to Convert Linoleic Acid into *n*-Hexanal

Dissertation Chair: J. D. Stewart

**Shrestha Sinha Ray**

Major: *Microbiology and Cell Science*

Dissertation: Genetic Analysis of an Ancient Lineage Non-Toxigenic *Vibrio cholerae* O1 Strain

Dissertation Chair: J. G. Morris

**Natasha J. Sng**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Characterizing a Novel Reactive Oxygen Species (ROS) Gene Identified from Spaceflight Experiments

Dissertation Chair: A. Paul

Dissertation Co-chair: R. J. Ferl

**Steven Joseph Snowden**

Major: *Counseling Psychology*

Dissertation: A Dual-Processing Approach to Examining Gender Role Conflict in Men

Dissertation Chair: M. Heesacker

**Aliyah R. Snyder**

Major: *Psychology*

Dissertation: The Effect of Exercise on Neurorecovery Following Mild Traumatic Brain Injury: A Pilot Study

Dissertation Chair: R. M. Bauer

**Kristen Solocinski**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: The Role of Per1 and EDN1-AS in Mineralocorticoid and Salt-Sensitive Hypertension

Dissertation Chair: M. L. Gumz

**Pallavi Sood**

Major: *Rehabilitation Science*

Dissertation: Developing Tailored Functional Status Measures across Continuum of Care

Dissertation Chair: S. Romero

**Lauren Alexandra Sosa**

Major: *Design, Construction and Planning*

Dissertation: Landscape Architecture, International Development, and Environmental Ethics

Dissertation Chair: K. E. Larsen

**Gayathri Srinivasan**

Major: *Medical Sciences—Genetics*

Dissertation: MicroRNA Regulation of PARP1 and Its Role in DNA Repair Pathways and Cancer

Dissertation Chair: R. A. Hromas

**Bethany A. Stennett**

Major: *Psychology*

Dissertation: The Effects of Simultaneous Cocaine and Alcohol Self-Administration on Striatal Glutamate

Dissertation Chair: L. Knackstedt

**Ian P. Stern**

Major: *Physics*

Minor: *Mechanical Engineering*

Dissertation: Microwave Cavities for Axion Dark Matter Detectors

Dissertation Chair: D. B. Tanner

**Michael Alistair Stone**

Major: *Civil Engineering*

Dissertation: Investigation of Normal Strength and Ultra-High Performance Concrete Cylinder Failure Behavior Under Impact

Dissertation Chair: T. Krauthammer

**Amanda Lynne Strayer-Scherer**

Major: *Plant Pathology*

Dissertation: Novel Approaches for the Diagnosis and Management of Bacterial Spot of Tomato

Dissertation Chair: M. Paret

Dissertation Co-chair: J. B. Jones

**Rachel M. Stupay**

Major: *Medical Sciences—Genetics*

Dissertation: Usher Syndrome Type 3: Retinal Phenotype and Gene Therapy Approaches

Dissertation Chair: W. W. Hauswirth

Dissertation Co-chair: A. Dinculescu

**Brenda Lee Ruei-Chi Such**

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: Blended, Active, and Persistent: An Investigative Study of Blended Learning Affordances for Active Learning and Student Persistence

Dissertation Chair: P. Antonenko

**Lerah Sutton**

Major: *Anthropology*

Dissertation: Declassifying Decomposition: Estimation of the Postmortem Interval Using Total Body Score and Accumulated Degree Days

Dissertation Chair: M. J. Heckenberger

Dissertation Co-chair: J. H. Byrd

**Massimiliano Salvatore Tagliamonte**

Major: *Veterinary Medical Sciences*

Dissertation: Malaria in Haiti: A Genomic Approach to Its Epidemiology and Biology

Dissertation Chair: J. B. Dame

Dissertation Co-chair: A. F. Barbet

**Jared Paul Taylor**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Targeting Negative Regulators of Immune Signaling Pathways to Disrupt the HIV-1 Life Cycle

Dissertation Chair: M. A. Wallet

**Jessica Lauren Taylor**

Major: *History*

Dissertation: Certain Boundaries: Indian Peoples, Nations and Violence in the Seventeenth-Century Chesapeake

Dissertation Chair: J. Barr

Dissertation Co-chair: J. F. Sensbach

**Edward F. Thomas**

Major: *Business Administration—Accounting*

Dissertation: The Joint Effect of Expressed User Concern and Authoritative Guidance on Managerial Determinations of Materiality

Dissertation Chair: S. K. Asare

**John Erik Timmons**

Major: *Anthropology*

Dissertation: Hip-Hop Life and Livelihood in Nairobi, Kenya

Dissertation Chair: R. B. Kernaghan

**Brian P. Tyler**

Major: *Anthropology*

Dissertation: Culture, Trauma, and Health: Social Suffering in Rural Guatemala

Dissertation Chair: C. C. Gravlee IV

**Wendy Ann Vidor**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: A Model to Implement STEM Curriculum in Plant Biotechnology at the Secondary Level

Dissertation Chair: M. E. Kane

**Karen Lee Vyverberg**

Major: *Geology*

Dissertation: Reconstructing the Temporal Evolution of Global Sea Level during the Last Interglacial

Dissertation Chair: A. L. Dutton

**Jeremy Alexis Magruder Waisome**

Major: *Civil Engineering*

Dissertation: Evaluation of Asphalt Layer Interface Resistance to Bond Degradation through Repeated Load

Dissertation Chair: R. Roque

Dissertation Co-chair: M. Tia

**Pei-Li Wang**

Major: *Statistics*

Dissertation: Analysis of High Dimensional Data with Network Structure

Dissertation Chair: G. Michailidis

**Xirui Wang**

Major: *Chemistry*

Dissertation: Colloidal Superparticles from Artificial Atoms: Synthesis and Mechanistic Study

Dissertation Chair: Y. C. Cao

**Donald Charles Watson Jr.**

Major: *Civil Engineering*

Dissertation: Modeling and Estimation of Heavy Vehicle Effects on Two-Lane Highway Traffic Operations

Dissertation Chair: S. S. Washburn

**Asmerom Okuballassie Weldeab**

Major: *Chemistry*

Dissertation: Supramolecular Approaches to Tuning the Molecular Assembly and Enhancing Optoelectronic Performance of  $\pi$ -Conjugated Organic Systems

Dissertation Chair: R. K. Castellano

**Jason Brandon Wenzel**

Major: *Anthropology*

Dissertation: Staging Tourism: Leisure and Consumption in Florida's Early Twentieth-Century Resorts

Dissertation Chair: J. M. Davidson

**Jennifer Marie Wiggins Iriarte**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: The Impact of Treadmill Running on the Tumor Microenvironment

Dissertation Chair: D. W. Siemann

**Tzu-Jung Wong**

Major: *Public Health*

Dissertation: Factors Related to Smoking Behaviors among Sexual Minority Populations

Dissertation Chair: J. L. Pomeranz

### **Na Wu**

Major: *Agricultural and Biological Engineering*  
Dissertation: Techno-Economic Analysis of Biofuels Production  
Dissertation Chair: P. C. Pullammanappallil  
Dissertation Co-chair: S. A. Svoronos

### **Lin Xing**

Major: *Agronomy*  
Dissertation: Improving Plant Breeding Efficiency with Quantitative Methodologies  
Dissertation Chair: K. E. Kenworthy  
Dissertation Co-chair: P. R. Munoz

### **Changjie Xu**

Major: *Nutritional Sciences*  
Dissertation: The Effects and Mechanisms of Consuming Sulfur-Containing Dietary Supplements on Chronic Inflammation in Obese Individuals  
Dissertation Chair: A. Mathews

### **Chi Xu**

Major: *Materials Science and Engineering*  
Dissertation: Developing Microstructure-Property Correlations in the Advanced Austenitic Stainless Steels as Candidate Materials for the Next-Gen Nuclear Reactors by using High-Energy X-ray and TEM/APT Techniques  
Dissertation Chair: Y. Yang  
Dissertation Co-chair: M. Li

### **Lei Xu**

Major: *Medical Sciences—Genetics*  
Dissertation: The Role of AMPK Signaling in the Retina  
Dissertation Chair: J. Ash

### **Yiming Xu**

Major: *Mechanical Engineering*  
Dissertation: Sensing and Control for Underwater Vehicles and Road Marking Survey with Mobile Lidar Systems  
Dissertation Chair: C. D. Crane III

### **Bidhyananda Yadav**

Major: *Civil Engineering*  
Dissertation: Direct Stream Hydrograph Prediction from Digital Elevation Model  
Dissertation Chair: K. Hatfield

### **Kai Yang**

Major: *Electrical and Computer Engineering*  
Dissertation: Memory-Centric Reconfigurable Accelerators for Energy-Efficiency and Security  
Dissertation Chair: S. Bhunia

### **Kun Yang**

Major: *Electrical and Computer Engineering*  
Dissertation: RFID-Based Solutions for Protecting Supply Chain  
Dissertation Chair: M. M. Tehranipoor

### **Ahmad Yousif**

Major: *Coastal and Oceanographic Engineering*  
Dissertation: The Development of a Scrap Tire Barrier as a Coastal Structure for Wave Damping Applications  
Dissertation Chair: A. Valle-Levinson

### **Qi Zeng**

Major: *Computer Science*  
Dissertation: Content-Aware Spin-Transfer Torque Magnetoresistive Random-Access Memory (STT-MRAM) Cache Designs  
Dissertation Chair: J. Peir

**Fengchao Zhang**

Major: *Electrical and Computer Engineering*

Dissertation: Low-Overhead Integrity Verification for Electronics and Beyond

Dissertation Chair: S. Bhunia

**Jun Zhang**

Major: *Design, Construction and Planning*

Dissertation: Collecting Real-Time Human Behavior Data during Fire Emergency Evacuation: A BIM-Driven Immersive Game Approach

Dissertation Chair: R. R. Issa

**Long Zhang**

Major: *Physics*

Dissertation: Density Functional Theory plus Dynamical Mean Field Theory Calculation for Transition Metal Oxides

Dissertation Chair: H. P. Cheng

Dissertation Co-chair: J. K. Ingersent

**Wenbo Evan Zhao**

Major: *Chemistry*

Dissertation: Parahydrogen Induced Polarization by Heterogeneous Catalysis

Dissertation Chair: C. R. Bowers

**Yang Zhao**

Major: *Chemical Engineering*

Dissertation: Manipulation of Surface Properties and Its Applications on Single Wall Carbon Nanotubes Separation and ZnO Nanowire Growth

Dissertation Chair: K. J. Ziegler

**Yao Zhou**

Major: *Geography*

Dissertation: Estimating Spatial Characteristics of Precipitation Associated with Tropical Cyclones Originating from the North Atlantic Ocean

Dissertation Chair: C. J. Matyas

**You Zhou**

Major: *Computer Science*

Dissertation: Highly Efficient Data Structures and Probabilistic Measurement Methods on Big Network Data

Dissertation Chair: S. Chen

**Yuan Zhou**

Major: *Computer Science*

Dissertation: Hyperspectral Unmixing with Endmember Uncertainty, Variability, and an Additional Color Image

Dissertation Chair: A. Rangarajan

**Yanan Zhu**

Major: *Electrical and Computer Engineering*

Dissertation: Characterization of Florida Lightning with Emphasis on the Preliminary Breakdown Process, Bipolar Lightning, and Lightning Interaction with the 257-m Tower

Dissertation Chair: V. A. Rakov

Dissertation Co-chair: M. A. Uman

**Yiqing Zhu**

Major: *Linguistics*

Dissertation: Processing Intonation: Categoricity and the Effects of Cognitive Control

Dissertation Chair: R. Wayland

Dissertation Co-chair: J. R. Valdes Kroff

**Kylie E. Zirbel**

Major: *Entomology and Nematology*

Dissertation: Larval Nutrient-Mediated Transgenerational Effects in *Aedes aegypti* Mosquitoes

Dissertation Chair: B. W. Alto

**Brendan Anthony Zurweller**

Major: *Agronomy*

Dissertation: Determining Genotypic Adaptability and Efficient Water and Nutrient Management Strategies for Optimizing Resiliency in Southeastern United States Row Crop Production

Dissertation Chair: D. L. Rowland

Dissertation Co-chair: B. Tillman

## DOCTOR OF EDUCATION

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**Cherie D. Allison**

Major: *Educational Leadership*

Dissertation: Professional Learning Communities and Collective Efficacy in a High School

Dissertation Chair: L. B. Eldridge

**Susan R. Anderson**

Major: *Curriculum and Instruction*

Dissertation: School Library Makerspace Design and Implementation in a Large, Midwestern School District:  
A Design Case Dissertation

Dissertation Chair: K. M. Dawson

**Audrey M. Antee**

Major: *Curriculum and Instruction*

Dissertation: Exploring Relationships Between Peer Review, Revision Strategies, and Self-Efficacy in Online College Composition

Dissertation Chair: P. Antonenko

**Jennifer Leigh Baughman**

Major: *Curriculum and Instruction*

Dissertation: Examining the Process of How One Teacher Team Enacts Trauma-Informed Care in an Alternative School:  
A Practitioner Inquiry

Dissertation Chair: B. L. Kennedy-Lewis

Dissertation Co-chair: A. J. Adams

**Sarah Esther Brandt**

Major: *Curriculum and Instruction*

Dissertation: Universal Design for Learning as a Digital Media Design Resource for Teachers of Bilingual Deaf Students with  
Special Needs

Dissertation Chair: K. M. Dawson

**Patrick E. Brennan**

Major: *Higher Education Administration*

Dissertation: From Community to State Colleges: The Perceptions of Faculty and Their Changing Roles in Northwest Florida

Dissertation Chair: D. F. Campbell

**Stacey R. Cole**

Major: *Curriculum and Instruction*

Dissertation: Leadership as a Central Office Administrator Incorporating Coaching Skills

Dissertation Chair: N. L. Dana

Dissertation Co-chair: A. Murata

**Elizabeth A. Dunn**

Major: *Curriculum and Instruction*

Dissertation: Educators' Perceptions of Improvement Initiatives in a Persistently Low Performing Elementary School

Dissertation Chair: E. Bondy



**April Faith Fleetwood**

Major: *Curriculum and Instruction*

Dissertation: A Reading Coach's Exploration of Literacy Engagement Practices in Her Classroom at a Rural, High Poverty School

Dissertation Chair: A. J. Adams

Dissertation Co-chair: J. L. McLeskey

**Lauren Carter Goff**

Major: *Curriculum and Instruction*

Dissertation: Defying the Odds: A Case Study of a Title 1 Middle School's Sharp Increase in Reading and Writing Proficiency for Free and Reduced Lunch Students

Dissertation Chair: E. Bondy

**Kimberly A. Jones**

Major: *Curriculum and Instruction*

Dissertation: Coaching outside the Content Area Comfort Zone: Experiences of Three Coaching Partnerships in Secondary Schools

Dissertation Chair: A. J. Adams

**Terolyn G. Lay**

Major: *Higher Education Administration*

Dissertation: A Predictive Model of First Year Drop-Out Risk at a Small Rural Community College

Dissertation Chair: D. F. Campbell

**Alfredo J. León**

Major: *Curriculum and Instruction*

Dissertation: Active Learning Facilitated by Technology in STEM Lecture Courses in a Community College.

Dissertation Chair: S. Kumar

**Christopher Henri Martin**

Major: *Curriculum and Instruction*

Dissertation: Examining the Relationship between Fidelity, Learner Cognitive Load, and Performance during Manikin-Based Simulation for Medical Students in the Preclinical Years

Dissertation Chair: P. Antonenko

**Virginia Stewart Miller**

Major: *Higher Education Administration*

Dissertation: A Case Study of Campus IT's Role in Adoption of Technology at a Private University

Dissertation Chair: D. F. Campbell

**Jennifer Lynnette Nash**

Major: *Curriculum and Instruction*

Dissertation: Understanding How to Interest Girls in STEM Education: A Look at How LEGO Education Model Teachers Engage Female Students in STEM Learning

Dissertation Chair: N. L. Dana

Dissertation Co-chair: A. Murata

**Miwa Sakaeda Nguyen**

Major: *Higher Education Administration*

Dissertation: The Effects of Excess Hour Surcharge Policies on Student Outcomes

Dissertation Chair: I. McFarlin

**Courtney M. Phaup**

Major: *Curriculum and Instruction*

Dissertation: Frequently Disciplined Students' Perceptions of Exclusionary Discipline and Caring Teacher Behaviors

Dissertation Chair: B. L. Kennedy-Lewis

Dissertation Co-chair: E. Bondy

**Helen June Philpot**

Major: *Curriculum and Instruction*

Dissertation: One Teacher's Development as a Facilitator of Novice Teacher Learning through the Use of Peer-Supported Observation

Dissertation Chair: A. J. Adams

Dissertation Co-chair: J. L. McLeskey

**April Bailey Raneri**

Major: *Higher Education Administration*

Dissertation: Developing With Change: A Look at the Experience of Faculty Participation in a Professional Development Certification Program

Dissertation Chair: C. Haynes

**Jennifer L. Shorter**

Major: *Educational Leadership*

Dissertation: The Impact of Mentoring Programs on Teacher Retention: Teacher Narratives on Mentoring and Retention

Dissertation Chair: L. B. Eldridge

Dissertation Co-chair: R. C. Wood

**Kimberly Ann Stalcup**

Major: *Educational Leadership*

Dissertation: End-of-Course Geometry Exam Results Compared with National Academy Foundation (NAF) Enrollment, Gender, and the Cost-Effectiveness of the Program in a Selected School District: A Two-Year Study

Dissertation Chair: R. C. Wood

Dissertation Co-chair: L. B. Eldridge

**Cheryl S. Vanatti**

Major: *Curriculum and Instruction*

Dissertation: Swimming through Murky Water, Trying to Find Your Way: Teaching Pedagogies and Perceptions that Help Explain Student Underperformance at an Elementary School Serving Low-Income, Predominantly Latino Students

Dissertation Chair: E. Bondy

**Jenny Lott Van Buren**

Major: *Curriculum and Instruction*

Dissertation: Culturally Responsive Teaching in an Algebra I Class for Repeating 9<sup>th</sup> Graders

Dissertation Chair: A. Murata

Dissertation Co-chair: N. L. Dana

**Joshua Earl Pitts White**

Major: *Educational Leadership*

Dissertation: School-Wide Positive Behavioral Interventions and Supports: A Formative Evaluation of First Year Implementation

Dissertation Chair: B. Oliver

Dissertation Co-chair: L. B. Eldridge

## DOCTOR OF AUDIOLOGY

Amy Lynn Arnett  
Ellen Lynn Cooperider  
Amy Edwards Cox

Leslie Engstrand-Guca  
Lin Kowitz  
Shannon M. Osmond

Indu Roy  
Leslie Shabani  
Shelly Kay Shelton

## DOCTOR OF BUSINESS ADMINISTRATION

Jared Pressell

## DOCTOR OF NURSING PRACTICE

Rebecca Claire Cash  
Lynette J. Cunday  
Stephanie Denise Curtis

Megan E. Glemza  
Jessica Ann Himmelberger

Brian Huei  
Tara Lynn Jendzio  
Ashley M. Pleie

## DOCTOR OF PLANT MEDICINE

Morgan Ashlee Byron

Lisbeth Espinoza Lozano

# PROFESSIONAL DEGREES

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## THE FREDRIC G. LEVIN COLLEGE OF LAW

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### Dean Laura A. Rosenbury

### JURIS DOCTOR

Sara Elizabeth Altes  
Stephanie Lyn Emrick  
Bathche Fils-Aime  
Lauren A. Grant

Kaizad K. Irani  
Ben Houston King  
Laura H. Lee  
Melisa Muriel

Allyson M. Paige  
Anthony F. Sabatini  
Kelsey Elizabeth Stinnett  
Trevor Oktay Tezel

## THE COLLEGE OF PHARMACY

---

### Dean Julie A. Johnson

### DOCTOR OF PHARMACY

Nilubol Y. Cencula  
Corey Tremain Coleman  
Karena Stone Coleman  
Mona Ibrahim Ahmed Farghaly  
Michael Ferguson  
Shashikanth Gannu  
Gwyneth M. Gordon  
Sara Elizabeth Harris  
Boushra Jabbour

Kathleen T. Jones  
Keldah Kiesche  
Ksenia Olegovna Kryachkova  
Jessica Mo-See Lam  
Joseph W. Lam  
Inna Lukyanovsky  
Farah Mian  
Montrice M. Mincey  
Patricia Marie Mitchell

Mihyun Oh  
Catherine Ruth Annette Orr  
Olga Pozdirca  
Evelyn L. Rodriguez  
Mary Theresa Seddon  
Mohamed B. Shalaby  
Michelle R. Spiotta  
Supti Sarkar Talwalkar  
Monia A. Tomsah

## THE COLLEGE OF DENTISTRY

---

### Dean A. Isabel Garcia

### DOCTOR OF DENTAL MEDICINE

ArNelle R. Wright



## **What Makes a University Great?**

*Some interesting facts about the University of Florida*

### **Educational Excellence**

UF is consistently ranked among the nation's top universities: No. 9 in U.S. News & World Report "Top Public Universities" (2018); No. 12 in the Wall Street Journal/Times Higher Education list of Best Public Colleges (2017); No. 3 on the Forbes' list of Best Value Public Universities (2017); No. 1 on Value Colleges' list of Top 50 Best Value Colleges (2016); and No. 1 on the Times Higher Education list of best public universities for employers to find new hires.

### **Faculty**

- UF has nearly 5,000 faculty members with distinguished records in teaching, research and service, including 36 Eminent Scholar chairs and 45 faculty elections to the National Academy of Sciences, Engineering, the Institute of Medicine or the American Academy of Arts and Sciences.
- Awards include two Pulitzer Prizes, NASA's top award for research, and the Smithsonian Institution's conservation award.

### **Students**

- Ninety-seven percent of incoming freshmen score above the national average (1500/21) on standardized exams. Students admitted for the fall 2017 freshman class had an average 4.4 GPA and an average SAT score of 1355.
- More than 1,285 International Baccalaureate students were enrolled in UF in March 2016. The freshman retention rate of 96 percent is among the highest in the country.
- UF awards more professional degrees to African American, Hispanic and other minority students than any other public university in the Association of American Universities (2014-15).
- Sixty-seven percent of UF full-time freshmen graduate in four years (2011-12 cohort), and 87 percent of UF freshmen graduate within six years (2009-10 cohort).
- Fifty-seven percent of UF graduates leave the university with no student-loan debt. For the remaining students, their average indebtedness is about \$21,603, as compared with the national average of more than \$30,000 (2015-16).

**UF**

2017 FALL  
COMMENCEMENT



## 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 staff is carved from cherry wood. 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 permanent home mailing address in February 2018.

## 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 doctoral regalia also has velvet running on the rest of the gown, including cross bars 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**