

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
SUMMER 2017



Greetings from the President

On 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

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.



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President and Vice Presidents of the University

W. Kent Fuchs, Ph.D.

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David Norton, Ph.D.

Vice President - Research

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

Vice President - Business Affairs

Deans of the University

R. Elaine Turner, Ph.D.

College of Agricultural and Life Sciences

Lucinda Lavelli, M.F.A.

College of the Arts

John Kraft, Ph.D.

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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

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The Graduate School

Michael Reid, Ph.D.

College of Health and Human Performance

Nick Place, Ph.D.

IFAS Extension

Jacqueline Burns, Ph.D.

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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

Michael L. Good, M.D.

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

James W. Lloyd, D.V.M., Ph.D.

College of Veterinary Medicine

Judith C. Russell, M.S.

University Libraries

Heather White, Ph.D.

Interim Dean of Students



2017 SUMMER
COMMENCEMENT

COMMENCEMENT AGENDA – FRIDAY, AUGUST 4, 4:00 p.m.

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	Duane Mitchell <i>Phyllis Kottler Friedman Professor Lillian S. Wells Department of Neurosurgery</i>
Presenting Candidates for Doctoral Degrees	Joseph Glover
Conferring of Doctoral Degrees	W. Kent Fuchs
Individual Recognition of Graduates	
Closing Remarks	W. Kent Fuchs
Alma Mater	Anthony Offerle Gainesville Brass Quintet
Recessional	Gainesville Brass Quintet
Postlude	Gainesville Brass Quintet



Commencement Speaker

Duane A. Mitchell

Duane Mitchell is the Phyllis Kottler Friedman Professor in the Lillian S. Wells Department of Neurosurgery at the University of Florida. Dr. Mitchell was born and raised in New Jersey and graduated from Rutgers College in New Brunswick, NJ, in 1993 with a bachelor's degree in biology.

During his undergraduate years, he became interested in pursuing a career as a physician-scientist and attended Duke University as a fellow in the Medical Scientist Training Program (MSTP). Dr. Mitchell graduated in 2001 from Duke with a medical degree and Ph.D. in immunology. His dissertation research focused on the biology of tumor antigen presentation by host antigen presenting cells.

Dr. Mitchell stayed at Duke for post-graduate training in pathology and neuro-oncology research and then joined the faculty in 2005 as an assistant professor. Over the next eight years, he focused his career on translational research efforts to develop novel immunotherapy treatments for patients with malignant brain tumors.

During that time, Dr. Mitchell led several first-in-human clinical trials investigating novel immunotherapies for brain cancer in pediatric and adult patients that were developed in his laboratory. In 2013, Dr. Mitchell was recruited to the University of Florida to lead a comprehensive brain tumor program focused on translational research.

He is the co-director of the Preston A. Wells, Jr. Center for Brain Tumor Therapy at UF, director of the UF Brain Tumor Immunotherapy Program, and associate chair of research for the Lillian S. Wells Department of Neurosurgery. Dr. Mitchell currently serves as a chartered member of the NIH study section on Cancer Immunopathology and Immunotherapy, as the chair of the NCI Pediatric Brain Tumor Consortium Immunotherapy Committee, and as a gubernatorial appointee to the Florida Center for Brain Tumor Research Scientific Advisory Council.



He has authored more than 80 scientific articles, chapters and reviews, is inventor on nine filed U.S. patents, and is the co-founder of a biotechnology company developing novel treatments for patients with primary and metastatic brain cancer. He has received numerous awards and recognition for his scientific accomplishments including the 2016 Top 10 Clinical Research Achievement Award from the Clinical Research Forum in Washington, D.C.

Dr. Mitchell has been invited to serve on several scientific advisory boards and to speak on neuro-oncology and cancer immunotherapy topics in local, national and international venues. His work is supported by the Department of Defense, the National Cancer Institute, the National Institute of Neurologic Diseases and Stroke, and several private funding agencies.

Dr. Mitchell met his wife of 18 years, Michelle Mitchell, during his sophomore year at Rutgers College. Michelle received her MBA from Duke University and currently works as global services manager for IBM. They currently live in Gainesville with their three sons, Anthony (age 9), Brandon (age 7), and Austin (age 3).

UF GRADUATE SCHOOL

The reputation of a research university is, in large part, measured by the excellence of its graduate faculty and graduate students. The University of Florida's graduate faculty and graduate students help to push the boundaries of research, develop the technologies of the future, improve the health of our citizenry, reshape our social and economic culture, expand scholarship, and create beauty in many forms.

Doctor of Philosophy

The Doctor of Philosophy degree was established in the late 19th century as the highest earned degree in American graduate schools. This degree program, which stresses competence in research, awards the credential most commonly held by college professors and researchers. Although requirements of the doctorate vary from one institution to another, certain prerequisites are typical: coursework, a qualifying examination, an approved dissertation and a final examination. Doctoral students work closely with a major professor who serves as an advisor, mentor, critic, confidant and promoter.

Doctor of Education

The Doctor of Education degree was introduced at the University of Florida in the mid-1940s. This degree is conferred in recognition of the development of sound scholarship in professional education and closely related fields, and demonstrated ability to apply that knowledge as an administrator, supervisor or teacher. Requirements vary by discipline but generally include coursework, a qualifying examination, the completion of a dissertation and final examinations. Students are mentored by a major professor and supported by a supervisory committee comprising members of the graduate faculty.

Doctor of Audiology

The Doctor of Audiology degree was first awarded to students at the University of Florida in 2000. This degree is the highest university award given in this field in recognition of completion of academic preparation for the clinical practice of audiology. The degree requires four years of study beyond the bachelor's degree, including academic coursework, supervised clinical experiences, yearly academic and clinical evaluation by the faculty, and a final examination.

Doctor of Plant Medicine

The Doctor of Plant Medicine degree was established at the University of Florida in 1999 to provide all segments of agriculture with rapid, accurate and scientifically sound diagnoses and management strategies for all types of plant health problems. This multidisciplinary program consists of courses and practical training in all relevant departments. Students are trained in the science, practice and business of the profession of plant medicine and complete coursework and written and oral comprehensive examinations.

Doctor of Physical Therapy

The Doctor of Physical Therapy degree is a professional doctoral program that prepares graduates to become entry-level physical therapists and was established at the University of Florida in 2005. The degree requires three years of coursework and clinical practicum beyond the bachelor's degree. Completion of the program enables graduates to sit for the licensure examination to practice physical therapy.

Doctor of Nursing Practice

The Doctor of Nursing Practice degree is a professional doctoral program that began admitting students in 2006 at the University of Florida. The degree prepares advanced practice nurses with the knowledge, skills and abilities needed in today's complex health care environment. It produces advanced-practice nurses with educational background comparable to health care practitioners in other fields.

Doctor of Business Administration

The Doctor of Business Administration degree is a professional doctorate that emphasizes the application of theory to actual business issues. Established in 2014, the DBA program aims to integrate the theory and practice of business with the context of current issues that the business world faces. The DBA program helps candidates develop proficiency in applied research by improving their methodological and analytical skills. Participants who successfully complete the program will be equipped to teach in higher education, consult, or be industry experts.

GRADUATE SCHOOL

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

DOCTOR OF PHILOSOPHY

Manal Othman Abuagela

Major: *Food Science*

Dissertation: Inactivation of Aflatoxins B₁, B₂ in Peanuts by Pulsed Light (PI)

Dissertation Chair: P. J. Sarnoski

Bahroz Muhammed Saleh Ahmed

Major: *Animal Sciences*

Dissertation: Elevated in utero Temperature: A Suppressor of Fetal Development and Ruminant Fitness?

Dissertation Chair: G. E. Dahl

Tural N. Akhmedov

Major: *Chemistry*

Dissertation: Design, Synthesis, and Characterization of Novel N-Heteroacenes for Organic Electronics

Dissertation Chair: R. K. Castellano

Raniah M. Al Mufarreh

Major: *Linguistics*

Dissertation: To Drive or Not to Drive: A Critical Analysis of Saudi Female Advocates' Discourse

Dissertation Chair: D. Boxer

Derek L. Allen

Major: *Forest Resources and Conservation*

Dissertation: Valuing Payments for Forest Water Yield

Dissertation Chair: D. Adams

Pablo Esteban Allen Monge

Major: *Entomology and Nematology*

Dissertation: Consequences of Environmental and Genetic Stress on the Male Weapons of *Narnia femorata* (Hemiptera: Coreidae)

Dissertation Chair: C. W. Miller

Ashwini K. Amarasinghe

Major: *Mathematics*

Dissertation: On Acyclicity Properties of Complements of Subsets in the Hilbert Cube

Dissertation Chair: A. N. Dranishnikov

Marvin J. Andujar

Major: *Human-Centered Computing*

Dissertation: Improving Attention in Learning Tasks with Quantified-Self Feedback from a Brain-Computer Interface

Dissertation Chair: J. E. Gilbert

Andrew Antolic

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Increased Maternal Cortisol Concentrations in Late Gestation Adversely Affects Fetal and Neonatal Development

Dissertation Chair: M. Keller-Wood

Jeffrey Matthew Arciola

Major: *Chemistry*

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

Dissertation Chair: N. A. Horenstein

Zoë Selina Arthurson-McColl

Major: *Criminology, Law, and Society*

Dissertation: Human Intelligence Interviewing with the Scharff Technique

Dissertation Chair: L. M. Levett

Akira Asada

Major: *Health and Human Performance*

Dissertation: Effects of Relative Size and Homogeneity of Sport Fan Base in Sport Consumer Socialization

Dissertation Chair: Y. J. Ko

Michael W. Ashton

Major: *Materials Science and Engineering*

Dissertation: Computational Methods for the Discovery and Characterization of Two-Dimensional Materials

Dissertation Chair: S. B. Sinnott

Muharrem Ayar

Major: *Electrical and Computer Engineering*

Dissertation: Towards Resilient Smart Grids: Robust Control Framework Design to Enhance Transient Stability

Dissertation Chair: H. A. Latchman

Dissertation Co-chair: J. Y. McNair

Nilanjan Banik

Major: *Physics*

Dissertation: Role of Axions in Structure Formation in the Universe

Dissertation Chair: P. Sikivie

Yanmin Bao

Major: *Linguistics*

Dissertation: The Acquisition of Sociolinguistic Variation: Effects of a Short-Term Study Abroad Sojourn on Second Language Learners of Chinese

Dissertation Chair: H. Blondeau

Ali Barikroo

Major: *Communication Sciences and Disorders*

Dissertation: Comparing the Effects of a Novel versus Existing Transcutaneous Electrical Stimulation Protocol on Lingual Palatal Peak Pressure and Pressure Duration during Swallowing in Healthy Older Adults

Dissertation Chair: M. A. Crary

Caleb Shuan Chia Barrett

Major: *Materials Science and Engineering*

Dissertation: Investigation of Antiphase Domain Boundary Energetics in GaAs-on-Si(001)

Dissertation Chair: K. S. Jones

Megan A. Barthle

Major: *Counseling Psychology*

Dissertation: Project FEED-A: Food Exposures for Eating Disorders in Adults

Dissertation Chair: G. J. Neimeyer

Dissertation Co-chair: J. P. McNamara

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

Abhinandan Batra

Major: *Rehabilitation Science*

Dissertation: Non-Invasive Monitoring of Disease Progression in Duchenne Muscular Dystrophy and Collagen VI Myopathy

Dissertation Chair: K. H. Vandenborne

Lauren Christine Bayliss

Major: *Mass Communication*

Dissertation: Mediated Food Cues: Using Subjective Message Construct Theory to Understand Food and Nutrition Communication

Dissertation Chair: J. Raup-Krieger

Yanina Becco

Major: *Romance Languages—Spanish*

Dissertation: Dictadura, memoria y trauma: Él teatro cómo experiencia de identidad colectiva y de resistencia en Argentina y España durante la dictadura y la posdictadura

Dissertation Chair: L. Álvarez-Castro

Brittney Leigh Beck

Major: *Curriculum and Instruction*

Dissertation: Inappropriate, Disruptive, and against Common Sense: The Minoritization of Teacher Candidates

Dissertation Chair: E. Bondy

Teresa Benítez

Major: *Mechanical Engineering*

Dissertation: Modeling Spatial and Temporal Frost Formation with Distributed Properties on Extended Surfaces Using the Orthogonal Collocation Method

Dissertation Chair: S. A. Sherif

Aaron Beveridge

Major: *English*

Dissertation: Writing Macroscopes: Networked Writing, Digital Content, and Data Science

Dissertation Chair: S. I. Dobrin

Poushali Bhadury

Major: *English*

Dissertation: Nationalism and Global Consciousness in (Post)Colonial Print Culture: *Deb Sahitya Kutir* and Bengali Children's Publishing (1940-1964)

Dissertation Chair: K. B. Kidd

Abhishek Bhattacharjee

Major: *Statistics*

Dissertation: Identifying Active Factors in Multi Factor Trials and Empirical Bayes Intervals for the Selected Mean

Dissertation Chair: S. S. Wu

Dissertation Co-chair: M. Ghosh

Gabriela Maxine Blohm

Major: *Zoology*

Dissertation: Ecology and Evolution of Vector-Borne Viruses: Empirical and Mathematical Approaches to Understanding the Persistence of Clinically Important Arboviruses

Dissertation Chair: J. M. Ponciano Castellanos

Tania Sultana Bonny

Major: *Public Health*

Dissertation: Refinement and Integration of PCR-Based Detection and Classic Virus Isolation Methods for Improved Aerovirology, Arbovirology, and Infection Control Virology Risk Assessments

Dissertation Chair: J. Lednicky

Mackenzie Jane Boyer

Major: *Agricultural and Biological Engineering*

Dissertation: Residential Irrigation and Responses to Conservation Measures in Florida

Dissertation Chair: M. D. Dukes

Ziyet Boz Ozdemir

Major: *Agricultural and Biological Engineering*

Dissertation: Utilizing Pressure to Enhance Permeation for Applications in Modified Atmosphere Packaging

Dissertation Chair: B. A. Welt

Sandra Jean Brown

Major: *Rehabilitation Science*

Dissertation: Examination of the Application of Applied Behavior Analysis Principles on a Child's Participation in Rehabilitation from the Perspective of the Therapist

Dissertation Chair: C. T. Myers

Maeve Amanda Kubik Budi

Major: *Materials Science and Engineering*

Dissertation: The Role of Phase Connectivity in Multiferroic Ceramic Nanomaterials

Dissertation Chair: J. Andrew

Weijing Cai

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Drug Discovery and Development of Natural Products from Marine Cyanobacteria as Anticancer Agents and Growth Factor Modulators

Dissertation Chair: H. Luesch

Dawn Renee Calibeo

Major: *Entomology and Nematology*

Dissertation: An Integrated Pest Management Strategy for *Nylanderia fulva* in Florida

Dissertation Chair: F. M. Oi

Shantrel Shaneka Canidate-Moore

Major: *Public Health*

Dissertation: Examining Treatment-Related Outcomes and Success among Hazardous Drinking Women with HIV Infection

Dissertation Chair: G. D. Carnaby

Joshua James Carey

Major: *Curriculum and Instruction*

Dissertation: Social Studies Educators' Sense Making Experiences of Civic Education in a Climate of High Stakes Testing

Dissertation Chair: E. A. Washington

Julia K. Carmody

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Longitudinal Health-Related Quality of Life in Adolescents with Inflammatory Bowel Disease

Dissertation Chair: D. Janicke

Lucas Paul Carnohan

Major: *Entomology and Nematology*

Dissertation: Evaluating the Potential of 20-Hydroxyecdysone as a Termiticide for Use in Subterranean Termite Baiting Systems, with Comparison to Noviflumuron

Dissertation Chair: N. Su

María Cristina Carrasquilla Ferro

Major: *Entomology and Nematology*

Dissertation: Reproductive Interference and Spermathecal Use in Invasive Mosquito Vectors

Dissertation Chair: L. P. Lounibos

Dissertation Co-chair: J. Rey

Williams Martins Castro

Major: *Geography*

Dissertation: The Last Agricultural Frontier in Amazonia, Impacts on Landscapes and Smallholders

Dissertation Chair: R. T. Walker

Seungwoo J. Chang

Major: *Agricultural and Biological Engineering*

Dissertation: Quantifying the Relative Uncertainties of Changes in Climate, and Water Demand for Water Supply Planning

Dissertation Chair: W. D. Graham

Dissertation Co-chair: C. J. Martinez

Sudeshna Alope Chatterjee

Major: *Rehabilitation Science*

Dissertation: Measurement of Sympathetic Nervous System Activity to Objectively Assess the Perceived Challenge of Walking during Complex Walking Tasks after Stroke

Dissertation Chair: D. J. Clark

Yujing Chen

Major: *Religion*

Dissertation: The Worship of Medicine Master Buddha in Medieval China

Dissertation Chair: M. Poceski

Mun Wye Chng

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Flowering of Bougainvillea 'Afterglow', Environmental Triggers and Their Hormonal Responses

Dissertation Chair: K. A. Moore

Yeongbae Choe

Major: *Health and Human Performance*

Dissertation: Designing A Destination Management System

Dissertation Chair: D. R. Fesenmaier

Daeun Choi

Major: *Agricultural and Biological Engineering*

Dissertation: Development of Intelligent Vision Sensing Systems to Support Precision Agriculture Practices in Florida Citrus Production

Dissertation Chair: W. S. Lee

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

Ronald L. Claypool

Major: *Philosophy*

Dissertation: Locke on Ideas

Dissertation Chair: S. D. R. Duncan

Natalie Jean Coers

Major: *Agricultural Education and Communication*

Dissertation: Agriculture on Mission: A Phenomenological Study of NGO Executive Leaders in International Agricultural Development

Dissertation Chair: N. L. P. Stedman

Colleen Therese Cole Jeffrey

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Cardiopulmonary Protective Role of Probiotics and the ACE2/Ang-(1-7)/Mas Axis of the Renin-Angiotensin System

Dissertation Chair: P. P. Sayeski

Dissertation Co-chair: M. K. Raizada

Gustavo Kenneth Contreras Munoz

Major: *Electrical and Computer Engineering*
Dissertation: Design for (Secure) Test Methods for Modern SoCs
Dissertation Chair: M. M. Tehranipoor
Dissertation Co-chair: D. J. Forte

Andrew S. Cordar

Major: *Computer Science*
Dissertation: Using Mixed Reality Humans to Improve Communication Skills
Dissertation Chair: B. Lok

Janelle Faye Coyle

Major: *Microbiology and Cell Science*
Dissertation: Exploring Molecular Mechanisms of Pathogenesis of *Liberibacter asiaticus* in the Plant-Microbe Interaction
Dissertation Chair: C. F. Gonzalez

Chris Smith Crawford Jr.

Major: *Human-Centered Computing*
Dissertation: Applying Block-Based Programming to Neurofeedback Application Development
Dissertation Chair: J. E. Gilbert

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

Rachelle Curcio

Major: *Curriculum and Instruction*
Dissertation: The Relationship between Attending a Shared Learning Experience and Educative Mentoring Interactions and Learning in the Final Internship
Dissertation Chair: A. J. Adams

Nasiru Mohammed Danmowa

Major: *Soil and Water Science*
Dissertation: Fate and Transport of Nitrogen Forms, Phosphorus and Pesticides in Soils from Humid Subtropical Florida and Semiarid Tropical Nigeria
Dissertation Chair: P. Nkedi-Kizza
Dissertation Co-chair: J. W. Jawitz

Arnob Das Gupta

Major: *Mechanical Engineering*
Dissertation: Study of Turbulent Flow Control Using Serpentine Plasma Actuator
Dissertation Chair: S. Roy

Chintan V. Dave

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*
Dissertation: Health Outcomes Related to Statin Medications
Dissertation Chair: A. G. Hartzema

Tahlia N. DeMaio

Major: *Astronomy*
Dissertation: Intracluster Light in Galaxy Groups and Clusters
Dissertation Chair: A. H. Gonzalez

Lindsey Graham DeRatt

Major: *Chemistry*
Dissertation: Late Transition Metal-Catalyzed Activation of Alkynes
Dissertation Chair: A. Aponick

Pritesh Desai

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Molecular and Cellular Signals Orchestrating CD8 T Cell Immune Responses against Respiratory Viral Infection

Dissertation Chair: S. Salek-Ardakani

Agnish Dey

Major: *Mathematics*

Dissertation: Collapsing of Non-Homogeneous Markov Chains

Dissertation Chair: M. Rao

Naa Amponsah Dodoo

Major: *Mass Communication*

Dissertation: The Duality of Traits and Goals: An Examination of the Interplay between Consumer Personality and Regulatory Focus in Predicting Consumer Responses to Social Media Ads

Dissertation Chair: C. R. Morton Padovano

Selçuk Dogan

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: The Relationship between the Quality of Professional Development and Effective Instruction: The Mediating Role of School-Based Professional Communities

Dissertation Chair: A. J. Adams

Maxim Sergeevich Dolinsky

Major: *Business Administration—Finance*

Dissertation: Corporate Financial Leverage: Firm vs. Industry Effects

Dissertation Chair: A. Naranjo

Matthew R. Dommel

Major: *Plant Molecular and Cellular Biology*

Dissertation: Transcription Regulation of the Plant Immune Transcription Coactivator NPR1

Dissertation Chair: Z. Mou

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

Juan Du

Major: *Curriculum and Instruction*

Dissertation: Chinese Engineers' Perceptions of Their Writing Needs and Difficulties in an English Dominated Workplace

Dissertation Chair: D. Fu

Nicholas J. Dunbar

Major: *Mechanical Engineering*

Dissertation: Patient Customizable Knee Model for Intraoperative Planning of Uni- and Bi-Compartmental Knee Arthroplasty

Dissertation Chair: S. A. Banks

Justin P. Dunnivant

Major: *Anthropology*

Dissertation: Representation, Heritage, and Archaeology among the Wolaita of Ethiopia

Dissertation Chair: S. A. Brandt

Eugene Michael Dunne

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Mixed-Method Investigation of the Influence of Impulsivity on Medication Non-Adherence among Persons Living with HIV

Dissertation Chair: N. E. Whitehead

Akshita Ranjan Dutta

Major: *Chemical Engineering*

Dissertation: Diffusion in Strongly Confining and Interacting Microporous Sorbents

Dissertation Chair: S. Vasenkov

Dissertation Co-chair: K. J. Ziegler

John Russell Echols

Major: *Materials Science and Engineering*

Dissertation: Design and Use of a High Heat Flux Device for Exposing Tungsten to Fusion-Relevant Conditions and Evaluating Surface Effects of Exposure

Dissertation Chair: A. L. Winfrey

Helen Charlotte Emerson

Major: *Agricultural Education and Communication*

Dissertation: A Longitudinal Study of Career Maturity and Career Decision-Making Self-Efficacy of Rural Secondary School Students

Dissertation Chair: B. E. Myers

James A. Estrada

Major: *Agronomy*

Dissertation: Mechanisms Underlying Cogongrass (*Imperata cylindrica*) Invasions

Dissertation Chair: S. Flory

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

Elizabeth Alice Fehlberg

Major: *Nursing Sciences*

Dissertation: Bio-Physiologic Risk Factors, the Influence of Policy, and the Process of Nursing Care: Exploring Hospital-Acquired Falls using a Mixed Methods Approach

Dissertation Chair: R. J. Lucero

Dissertation Co-chair: A. M. McDaniel

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-Haitien, Haiti

Dissertation Chair: F. V. Harrison

Pedro Luis Fernández-Cabán

Major: *Civil Engineering*

Dissertation: The Spatial Variation of Wind Pressures on Low-Rise Buildings with Upwind Terrain Surface Roughness

Dissertation Chair: F. J. Masters

Karin Grace Fields

Major: *Counseling and Counselor Education*

Dissertation: A Phenomenological Look at Nesting to Prepare for Adoptive Motherhood

Dissertation Chair: S. L. Smith

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

Amanda Lee Ford

Major: *Nutritional Sciences*

Minor: *Agricultural Education and Communication*

Dissertation: The Effects of a High-Protein Diet with a Prebiotic and Multi-Strain Probiotic on *Microbiota*, Gastrointestinal Function and Wellness in Older Women

Dissertation Chair: W. J. Dahl

Jerrine Theresa Taniesha Foster

Major: *Environmental Engineering Sciences*

Dissertation: Evaluation of Combined Ion Exchange Treatment and Alternative Regeneration: A Bench and Pilot Scale Approach

Dissertation Chair: T. H. Boyer

Steven J. Foti

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: High School Students' Understanding of Variability

Dissertation Chair: T. Jacobbe

Christopher E. Fouche

Major: *Religion*

Dissertation: Acquired Tastes: Virtue, Community, and Eating Ethically

Dissertation Chair: A. Peterson

Johanna E. Freeman

Major: *Forest Resources and Conservation*

Dissertation: Beyond Historical References: Managing Longleaf Pine Savannas for Function and Resilience in the Anthropocene

Dissertation Chair: S. A. Bohlman

Dissertation Co-chair: L. N. Kobziar

Anthony Wood Frei

Major: *Biomedical Engineering*

Dissertation: The Local Release of Immunomodulatory Agents in the Context of Islet Transplantation

Dissertation Chair: C. Stabler Anderson

Alyssa M. Fritz

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Impact of Parental Psychological Distress and Functioning on Children with Cystic Fibrosis: Assessing Adherence, Lung Function, and Quality of Life

Dissertation Chair: D. A. Fedele

Dissertation Co-chair: D. Janicke

Amanda M. Garcia

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Functional Activation and Connectivity of the Semantic Network in Older Adults

Dissertation Chair: R. M. Bauer

Dissertation Co-chair: R. A. Cohen

Lauren A. Gay

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Targets and Functions of Kaposi's Sarcoma-Associated Herpesvirus MicroRNAs in Endothelial Cells

Dissertation Chair: R. F. Renne

Hermes Gerardo-Cuervo

Major: *Agricultural and Biological Engineering*

Dissertation: Understanding the Relationship between Vegetation Indices and Climate Variability in Sugarcane in Florida

Dissertation Chair: C. W. Fraisse

Randi K. Gill-Sadler

Major: *English*

Dissertation: *Diasporic Dissonance: Black Women's Literature, U.S. Imperialism and the Black Diaspora*

Dissertation Chair: D. W. King

Akiko M. Goen

Major: *School Psychology*

Dissertation: *Family Engagement and Families' Perceptions of Professionals' Family-Centered Practices among Head Start Families*

Dissertation Chair: T. M. Smith-Bonahue

Ryan Michael Goetz

Major: *Physics*

Dissertation: *A Low Loss Faraday Isolator for Squeezing Injection in Advanced LIGO*

Dissertation Chair: D. B. Tanner

Mohammed Mansour Hamada Gomaa

Major: *Design, Construction, and Planning*

Dissertation: *Developing an Analytical Framework to Identify the Tipping Points of Sea Level Rise Adaptation Strategies: A Case Study of Miami-Dade County, Florida*

Dissertation Chair: Z. Peng

Dissertation Co-chair: K. I. Frank

Tracey Graham

Major: *Anthropology*

Dissertation: *Sandy Island, an African American Diaspora Gullah Community*

Dissertation Chair: I. P. McClaurin

Shanyue Guan

Major: *Civil Engineering*

Minor: *Electrical and Computer Engineering*

Dissertation: *Smart Radar Sensor for Structural Health Monitoring*

Dissertation Chair: J. A. Rice

Joseph Michael Gullett

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *White Matter and Disturbed Sleep in Veterans with Posttraumatic Stress Disorder and Traumatic Brain Injury*

Dissertation Chair: R. M. Bauer

Alican Gulsevin

Major: *Chemistry*

Dissertation: *A Comparative Analysis of the Principles behind Alpha 7 Nicotinic Acetylcholine Receptor Function*

Dissertation Chair: N. A. Horenstein

Jennifer Nicole Haddock

Major: *Psychology*

Dissertation: *Predicting Treatment Effects for Problem Behavior Maintained by Automatic Reinforcement*

Dissertation Chair: B. A. Iwata

Nahal Hakim

Major: *Design, Construction, and Planning*

Dissertation: *Traffic Crash Analysis of Older Drivers: The Effect of Urban Form Characteristics*

Dissertation Chair: I. Bejleri

John J. Hames

Major: *Anthropology*

Dissertation: *The People Who Stand Up for Pulaar Activism and Language Loyalty Politics in Senegal and Mauritania*

Dissertation Chair: A. Kane

Brian J. Hamm

Major: *History*

Dissertation: *Between the Foreign and the Familiar: The Portuguese, the Inquisition, and Local Society in Cartagena de Indias, 1550-1700*

Dissertation Chair: I. L. Altman

Dissertation Co-chair: N. Caputo

Jingyi He

Major: *Research and Evaluation Methodology*

Dissertation: *Non-Parametric DIF Detection Method for Composite Group Comparisons: An Adaption of the Standardization Method*

Dissertation Chair: A. C. Manley

Lauren Elizabeth Hearn

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *An Examination of Patient Narratives as a Decision Making Tool for Early Stage Breast Cancer Surgery*

Dissertation Chair: N. E. Whitehead

Dissertation Co-chair: D. B. Pereira

Phyllis J. Henderson

Major: *Design, Construction, and Planning*

Dissertation: *The Origins of the Belvedere: Living in the Distant View of Landscape*

Dissertation Chair: H. Zou

Dissertation Co-chair: C. L. Hailey II

Justin James Hendricks

Major: *Sociology*

Dissertation: *Representation in Family Theory and Research: Complexity, Deleuze, and Semiotic Experimentation*

Dissertation Chair: C. L. Shehan

Hanna Ann Herbst

Major: *Astronomy*

Dissertation: *Dust-Reddened Quasars and Quasar Outflows*

Dissertation Chair: F. Hamann III

David Hernando

Major: *Civil Engineering*

Dissertation: *Localized Interface Debonding as a Potential Mechanism of Near-Surface Longitudinal Cracking in Asphalt Pavements*

Dissertation Chair: R. Roque

Joshua P. Hiller

Major: *Mathematics*

Dissertation: *On Some Variations of the Multistage Model of Carcinogenesis*

Dissertation Chair: J. E. Keesling

Tanisha G. Hill-Jarrett

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *Attention Systems and Their Interaction following Traumatic Brain Injury: The Role of White Matter Changes in Frontoparietal Networks*

Dissertation Chair: R. M. Bauer

Dissertation Co-chair: W. M. Perlstein

Ethan Daniel Holt

Major: *Chemistry*

Dissertation: *Exploiting Photophysical Properties in Conjugated Chromophores for Organic Solar Cells*

Dissertation Chair: K. S. Schanze

Dissertation Co-chair: R. K. Castellano

Ting-Wen Hsu

Major: *Sociology*

Dissertation: The Motherhood Wage Penalty for Low-Educated Women during Early Careers - the Impact of Growing External Labor Market in the New U.S. Economy

Dissertation Chair: C. L. Shehan

Xiao Hu

Major: *Astronomy*

Dissertation: Inside-Out Planet Formation: Pebble Delivery and Planet-Disk Co-Evolution

Dissertation Chair: J. C. Tan

Xiaodan Hu

Major: *Higher Education Administration*

Minor: *Leadership Development*

Dissertation: The Impact of Performance-Based Funding on Community College Retention and Completion in Louisiana

Dissertation Chair: D. F. Campbell

Dissertation Co-chair: J. C. Ortagus

Yang Hu

Major: *Electrical and Computer Engineering*

Dissertation: Towards Emerging Data Center Architecture in Internet of Things Era

Dissertation Chair: T. Li

Yue Hu

Major: *Environmental Engineering Sciences*

Dissertation: Contaminant Selectivity, Model Development, and Pilot Study of Innovative Ion Exchange for Small Public Water Systems

Dissertation Chair: T. H. Boyer

Fang-Yi Huang

Major: *Sociology*

Dissertation: The Effect of Gender on the Timing of Receiving Social Security Benefits: Do Health and Cohort Matter?

Dissertation Chair: C. W. Peek IV

Laibin Huang

Major: *Soil and Water Science*

Dissertation: Microbial Community Structures Related to Nitrogen Cycling in Subterranean Estuaries

Dissertation Chair: A. V. Ogram

Qiuyuan Huang

Major: *Electrical and Computer Engineering*

Dissertation: Cooperative Networking: Enabling Technology for Smart Communication

Dissertation Chair: D. Wu

Tien-Yu Huang

Major: *Electrical and Computer Engineering*

Dissertation: Noninvasive Measurement and Analysis of Cardiorespiratory Movement of Laboratory Rat Using Nonlinear Doppler Phase Demodulation Effect

Dissertation Chair: J. Lin

Yuanwen Huang

Major: *Computer Engineering*

Dissertation: System-on-Chip Vulnerability Analysis and Mitigation Techniques

Dissertation Chair: P. K. Mishra

Stephen P. Jennewein

Major: *Soil and Water Science*

Dissertation: Determining Management Effects on Soil Gas Flux, Microbial Biomass, and Crop Yield in the Everglades Agricultural Area

Dissertation Chair: S. H. Daroub

Dissertation Co-chair: J. Bhadha

Brandon T. Jett

Major: *History*

Dissertation: African Americans and the Police in the Jim Crow South, 1900-1945

Dissertation Chair: J. S. Adler

Kaiyuan Jiang

Major: *Biomedical Engineering*

Dissertation: Local Modification of Polydimethylsiloxane-Based Scaffold Implants to Improve Islet Graft Efficacy and Modulate Host Response

Dissertation Chair: C. Stabler Anderson

Yifan Jin

Major: *Chemistry*

Dissertation: Ionization Potential Improved Consistent Density Functional Theory

Dissertation Chair: R. J. Bartlett

Tae Seung Kang

Major: *Computer Science*

Dissertation: Learning Feedforward and Recurrent Deterministic Spiking Neuron Network Feedback Controllers

Dissertation Chair: A. Banerjee

YoungJu Kang

Major: *Curriculum and Instruction*

Dissertation: A Comparative Study of Game-Based Online Learning in Music Appreciation: An Analysis of Student Motivation and Achievement

Dissertation Chair: A. D. Ritzhaupt

Christy Karabetian

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Effect of Obesity on Accelerometry-Measured Physical Activity following Surgery for Gynecologic Malignancies

Dissertation Chair: D. B. Pereira

Robert Anthony Karam

Major: *Electrical and Computer Engineering*

Dissertation: Energy-Efficient and Secure Reconfigurable Computing Architecture

Dissertation Chair: S. Bhunia

Eutyachus 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

Ethan L. Kennon

Major: *Materials Science and Engineering*

Dissertation: Behavior of Highly Te Doped InGaAs

Dissertation Chair: K. S. Jones

Ari Kim

Major: *Health and Human Performance*

Minor: *Marketing*

Dissertation: Understanding Domains and Roles of Fit in Sport Event Sponsorship

Dissertation Chair: H. J. Gibson

Bethy Kim

Major: *Chemistry*

Dissertation: Investigation of Photophysical Properties for Poly(Phenylene Ethynylene)-Based Conjugated Polyelectrolytes via Chain-Growth Polymerization

Dissertation Chair: K. S. Schanze

Dissertation Co-chair: L. A. McElwee-White

Changki Kim

Major: *Health and Human Performance*

Dissertation: Visual Load and Motor Control in Older Adults

Dissertation Chair: E. A. Christou

Han Kyul Kim

Major: *Health and Human Performance*

Dissertation: Influence of Sex and Exercise Intensity on Acute Vascular Responses to Aerobic Exercise in Young Adults

Dissertation Chair: D. D. Christou

Min Hyun Kim

Major: *Nutritional Sciences*

Dissertation: Regulation and Function of Zinc and Zinc Transporters during ER Stress

Dissertation Chair: R. J. Cousins

Taewook Kim

Major: *Electrical and Computer Engineering*

Dissertation: Continuous-Time Delta-Sigma Modulators with Enhanced Noise-Shaped Quantizer

Dissertation Chair: N. Maghari

Kevin D. Kircheval

Major: *Veterinary Medical Sciences*

Dissertation: Utilizing the Asialoglycoprotein Receptor to Target Hepatocellular Carcinoma for Magnetically Mediated Energy Delivery Therapy Using Iron Oxide Nanoparticles

Dissertation Chair: S. M. Roberts

Richard Anthony Klein

Major: *Psychology*

Dissertation: Many Labs 4: Investigating Effects of Researcher Expertise on Replication Outcomes

Dissertation Chair: K. Ratliff

Kumudu Priyadarshani Perera Kopiyawattage

Major: *Agricultural Education and Communication*

Dissertation: Perspectives of Food Producers regarding Food Production in Urban Areas

Dissertation Chair: T. G. Roberts II

Dissertation Co-chair: L. A. Warner

Anastasia Kozak

Major: *English*

Dissertation: From Linguists to Engineers: Universalism and New Translation Paradigms in the Digital Age

Dissertation Chair: T. A. Harpold

Anil Kumar Chaudhary

Major: *Agricultural Education and Communication*

Dissertation: The Effects of County and State Faculty Networking on the Attitude toward Evaluation and Evaluation Practices of County Faculty Members

Dissertation Chair: G. D. Israel

Michael W. Kwan

Major: *Materials Science and Engineering*

Dissertation: Development of Samarium Oxide Based Approach to Radiopharmaceutical Treatment of Osteosarcoma

Dissertation Chair: C. D. Batich

Melissa Hope Laitner

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Rurality and the Prevalence of Obesity and Obesity-Related Health Conditions, 1988-2014

Dissertation Chair: M. G. Perri

Emily Helen Lakes

Major: *Biomedical Engineering*

Dissertation: Knee Meniscus Structure-Function Relationships at the Tissue and Joint Level

Dissertation Chair: K. Allen

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

Andrew S. Layne

Major: *Health and Human Performance*

Dissertation: Skeletal Muscle Adaptations to Low-Load Resistance Exercise Combined with Blood Flow Restriction in Older Adults with Knee Osteoarthritis

Dissertation Chair: P. A. Borsa

Dissertation Co-chair: T. W. Buford

Christian Erik Legler

Major: *Curriculum and Instruction*

Dissertation: E-Mentoring Novice Science Teachers through University-Sponsored Online Induction: A Self-Study

Dissertation Chair: A. J. Adams

Yuanyuan Leng

Major: *Microbiology and Cell Science*

Dissertation: Regulation of RNase E-Mediated Turnover of Non-Coding sRNAs CsrB/C

Dissertation Chair: T. Romeo

Trevor Anthony Lentz

Major: *Rehabilitation Science*

Dissertation: Advancing the Understanding of Healthcare Utilization and Costs among Patients with Musculoskeletal Pain

Dissertation Chair: S. George

Alexandra L. Lenzen

Major: *Counseling Psychology*

Dissertation: Labeling Sexism and Bystander Intervention: An Intervention Study

Dissertation Chair: B. Moradi

Janelle Elizabeth Letzen

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Effects of Mood on Functional Brain Connectivity in Low Back Pain Patients during Resting-State

Dissertation Chair: M. E. Robinson

Eshe Lyndzie Lewis

Major: *Anthropology*

Dissertation: Violence for the Record: Afro-Peruvian Women's Accounts of Intimate Partner Violence

Dissertation Chair: F. V. Harrison

Chengcheng Li

Major: *Animal Molecular and Cellular Biology*

Dissertation: Equine Skeletal Muscle Mitochondrial Function and Regeneration Capacity

Dissertation Chair: S. Wohlgemuth

Jian Li

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Aberrant Innate Immunity Contributes to Dysregulated Adaptive Immune Responses in Patients with Crohn's Disease

Dissertation Chair: S. C. Glover

Liguang Li

Major: *Soil and Water Science*

Dissertation: Molecular Characterization of Composition and Sources of Dissolved Organic Nitrogen in Agricultural Catchments

Dissertation Chair: Z. He

Meiyu Li

Major: *Electrical and Computer Engineering*

Dissertation: Wavelet-Transform-Based Vital Signs Detection Using 5.8 GHz Continuous Wave Doppler Radar

Dissertation Chair: J. Lin

Yuan Li

Major: *Chemical Engineering*

Dissertation: The Mechanics of Nuclear Shaping in Cell

Dissertation Chair: T. Lele

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

Wanggi Lim

Major: *Astronomy*

Dissertation: Dust and Gas in the Cradles of Star Formation

Dissertation Chair: J. C. Tan

Tian Lin

Major: *Psychology*

Dissertation: Effects of Face Attractiveness on Face Memory: An Adult Developmental Perspective

Dissertation Chair: N. C. Ebner

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

Fujun Liu

Major: *Electrical and Computer Engineering*

Dissertation: Robust Pathology Image Processing Methods and Applications in Computer-Aided Diagnosis and Prognosis Systems

Dissertation Chair: L. Yang

Jing Liu

Major: *Biostatistics*

Dissertation: Improving Power for Testing Genetic Effects on Binary and Survival Outcomes Using Auxiliary Information

Dissertation Chair: S. S. Wu

Yen Li Loh

Major: *English*

Dissertation: Phantom Poetics: Ghosts and Immigration Exclusion in Chinese American Women's Writing, 1975 - 2007

Dissertation Chair: M. J. Schueller

Nikhil Dnyaneshwar Londhe

Major: *Mechanical Engineering*

Dissertation: Rolling Contact Fatigue Life Investigation of Through and Case Hardened Bearing Steels Using Experimental Testing and Finite Element Modelling

Dissertation Chair: N. K. Arakere

Marina Londres

Major: *Forest Resources and Conservation*

Dissertation: Comparing Livelihood and Local Resource Use Strategies among Traditional Populations in the Amazon: Towards Adapting Sustainable Development Policies to Local Needs

Dissertation Chair: G. Barnes

Dissertation Co-chair: M. C. Schmink

Benjamin M. Looney

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Altered Beta Cell Innate Immune Response to Terminal Deletion Coxsackievirus B3

Dissertation Chair: M. J. Clare-Salzler

Alana G. Lord

Major: *History*

Dissertation: Constructing Royal Power: Host Desecration and Kingship in the Fourteenth-Century Crown of Aragon

Dissertation Chair: N. Caputo

Dissertation Co-chair: B. Effros

Artemis S. Louyakis

Major: *Microbiology and Cell Science*

Dissertation: Characterizing the Molecular Mechanisms Contributing to Biologically Induced Carbonate Mineralization and Thrombolite Formation

Dissertation Chair: J. S. Foster

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

Jingzhe Ma

Major: *Astronomy*

Dissertation: The Formation and Evolution of High-Redshift Dusty Galaxies

Dissertation Chair: A. H. Gonzalez

Dissertation Co-chair: J. Ge

Mohamad Fadhli bin Mad Atari

Major: *Horticultural Sciences*

Dissertation: Optimization of Regeneration and Transformation for Diploid Strawberry *Fragaria vesca* Genotype 5AF7

Dissertation Chair: K. M. Folta

Brittany Rife Magalis

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Evolutionary Dynamics and Phyloanatomy of Intra-Host HIV/SIV Subpopulations during Disease Progression

Dissertation Chair: M. Salemi

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

Emily Lynn Marshall

Major: *Biomedical Engineering*

Dissertation: Monte Carlo Organ Dose Calculations for Pediatric Patients Undergoing Fluoroscopy Procedures

Dissertation Chair: W. E. Bolch

Madison Elizabeth Martin

Major: *Nuclear Engineering Sciences*

Dissertation: Computational Design of Short Pulse Laser Driven Iron Opacity Measurements at Stellar Relevant Conditions

Dissertation Chair: S. Goluoglu

Thomas P. Martin Jr.

Major: *Materials Science and Engineering*

Dissertation: Effects of Ultra-Thin Germanium Layers at the Silicon-Oxide Interface during Oxidation Reactions on Injection of Interstitials

Dissertation Chair: K. S. Jones

Jose R. Martinez

Major: *Special Education*

Dissertation: The Effects of a Modified Peer-Mediated Intervention on the Peer-Related Social Competence Skills of Young Children with Autism Spectrum Disorder

Dissertation Chair: M. A. Conroy

Jude Naser Masannat

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: β Arrestin 2 Mediates Renal Cell Carcinoma Tumor Growth and Metastasis

Dissertation Chair: Y. Daaka

Todd Allen McCardle

Major: *Curriculum and Instruction*

Dissertation: Race Tracks: How African American Mainstream High School Students Discuss Their Educational and Career Aspirations

Dissertation Chair: S. G. Terzian

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

Melvin Rothchild McCray IV

Major: *Mechanical Engineering*

Dissertation: Form-Finding of a Compliant T-4 Tensegrity Mechanism

Dissertation Chair: C. D. Crane III

Dennis O'Keith McLeod II

Major: *Counseling Psychology*

Dissertation: Help Me? An Intervention to Enhance Mental Health Help Seeking

Dissertation Chair: G. J. Neimeyer

Lana Jeannine McMillan

Major: *Genetics and Genomics*

Dissertation: Oxidative Stress in Archaea: Proteome Responses and Characterization of an Inorganic Pyrophosphatase That Drives E1-Like Activation of Ubiquitin-Like Protein Modification

Dissertation Chair: J. A. Maupin

Sarah Clark Mead

Major: *Psychology*

Dissertation: Evaluation of a Functional Analysis Screening Procedure for Aggression

Dissertation Chair: B. A. Iwata

Dissertation Co-chair: T. R. Vollmer

Xiaowei Mei

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

Dissertation: Three Essays on Economics of Information Systems

Dissertation Chair: H. Cheng

Kokila U. Mendis

Major: *Political Science*

Dissertation: Problematizing Multiculturalism: Race and the Integration Experiences of Swedish Women of Color

Dissertation Chair: L. E. Anderson

Ana Maria Mesa Guarin

Major: *Animal Sciences*

Dissertation: Environmental And Physical Stressors Influence Reproductive Function In Horses And Pigs

Dissertation Chair: C. J. Mortensen

Timoteo R. Mesh

Major: *Anthropology*

Dissertation: The Maya Struggle of Southern Belize: Alcaldeship and State Craft

Dissertation Chair: M. M. Stoilkova

Allison Sydney Metz

Major: *Psychology*

Dissertation: The Impact of Indulgent Parenting in Childhood and Adolescence on College Students' Autonomy and Self-Regulation

Dissertation Chair: J. A. Graber

Andrew Jesse Milluzzi

Major: *Electrical and Computer Engineering*

Dissertation: Optimizations for Heterogeneous Computing

Dissertation Chair: J. G. Harris

Dulce María Minaya Caba

Major: *Psychology*

Dissertation: Effect of Constant Light or Dark Exposure on Food Intake, Spontaneous Locomotor Activity, and Body Composition in Mice

Dissertation Chair: N. E. Rowland

Dissertation Co-chair: L. Knackstedt

Mona Sadat Mirehie

Major: *Health and Human Performance*

Minor: *Sociology*

Dissertation: Trajectory of Women's Participation in Active Sport Tourism and Sense of Well Being: A Case of Snow Skiing and Boarding

Dissertation Chair: H. J. Gibson

Carolyn Elaine Mitten

Major: *Curriculum and Instruction*

Dissertation: Novice Teachers' Evolving Formative Assessment Knowledge and Practice for Teaching Mathematics

Dissertation Chair: T. Jacobbe

Marissa Selena Molinar

Major: *Anthropology*

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

Dissertation Chair: K. E. Sassaman Jr.

Eduardo Monteiro Gelcer

Major: *Agricultural and Biological Engineering*

Dissertation: Tools to Reduce Climate Risk for Tomato Production in Mozambique

Dissertation Chair: C. W. Fraisse

Dissertation Co-chair: L. Zotarelli

Jihwan Moon

Major: *Business Administration—Marketing*

Dissertation: Pricing as Communication and Strategic Response

Dissertation Chair: S. M. Shugan

Leonardo Simões de Barros Moreno

Major: *Agronomy*

Dissertation: Modeling Regrowth Dynamics of Two Contrasting Forage Grasses in Response to Shade and Nitrogen Fertilization

Dissertation Chair: K. J. Boote

Dissertation Co-chair: L. E. Sollenberger

Jolande L. Morgan

Major: *Educational Leadership*

Dissertation: School Governance and Public Choice Theory: A Study of the Decision-Making Authority in School Systems

Dissertation Chair: R. C. Wood

Elise S. Morrison

Major: *Soil and Water Science*

Dissertation: Microbial Community Dynamics along Peatland Nutrient Gradients

Dissertation Chair: A. V. Ogram

Dissertation Co-chair: B. L. Turner

Louis Michel Marie Mouterde

Major: *Chemistry*

Dissertation: I. A New Chemo-Enzymatic Pathway for the Synthesis of Coenzyme A and the Creation of a Regeneration System of Coenzyme A Thioesters using Acyl-CoA Synthetases II. The Enzymatic Synthesis of High Value Synthons from Levoglucosenone

Dissertation Chair: J. D. Stewart

Lindsay Jordan 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

Mayara Mari Murata

Major: *Plant Pathology*

Dissertation: Study of Grapefruit Cybrids with Improved Citrus Canker Resistance

Dissertation Chair: J. H. Graham Jr.

Ryan Patrick Murray

Major: *Materials Science and Engineering*

Dissertation: The Effect of Ion Implantation on the Structural and Electronic Properties of Molybdenum Disulfide

Dissertation Chair: K. S. Jones

Jiyoun Myung

Major: *Statistics*

Dissertation: Small Area Estimation, Nonparametric Median Estimation and Measurement Error Models: A Bayesian Approach

Dissertation Chair: M. Ghosh

Soufiane Stephane Nadif

Major: *Chemistry*

Dissertation: Trianionic Pincer Ligands: Proton Storage within a Pyrrolide Pincer-Type Ligand and Ynene Metathesis Leading to Stereoregular Cyclic Polymers

Dissertation Chair: A. S. Veige

Bradley Joseph Nartowt

Major: *Physics*

Dissertation: Thermal and Electrical Nonlinear Currents Driven through a Nano-Bridge Bearing an Electron-Phonon Interaction

Dissertation Chair: K. A. Muttalib

Fernanda Nascimento de Paula e Silva

Major: *Coastal and Oceanographic Engineering*

Dissertation: Tidal and Subtidal Wave-Current Interactions in a Mixed Energy Tidal Inlet

Dissertation Chair: A. Valle-Levinson

Robert Nedbor-Gross

Major: *Environmental Engineering Sciences*

Dissertation: A New Meteorological Model Evaluation Technique Based on Air Quality Driving Features

Dissertation Chair: B. H. Henderson

Veronica M. Negron Perez

Major: *Animal Molecular and Cellular Biology*

Dissertation: Differentiation and Development of the Bovine Blastocyst

Dissertation Chair: P. J. Hansen

Natalie Genevieve Nelson

Major: *Agricultural and Biological Engineering*

Dissertation: Quantifying the Spatiotemporal Importance of Fresh-Brackish Water Quality Drivers Using Data Analytics and Models

Dissertation Chair: R. Munoz-Carpena

Mason J. Newark

Major: *Plant Pathology*

Dissertation: Examining Risk Factors of *Stagonosporopsis spp* Epidemics in Watermelon Production; Fungicide Resistance and Corresponding Population Genetics

Dissertation Chair: N. S. Dufault

Dissertation Co-chair: M. Paret

Gareth R. Newman

Major: *Nuclear Engineering Sciences*

Dissertation: Evaluation of Nuclear Data Libraries through GCFR-Proteus Benchmarking

Dissertation Chair: A. Enqvist

Erica N. Newport

Major: *Mass Communication*

Dissertation: Three Years after Trayvon Martin's Death: Is Political Alienation Shifting across Disparate Racial/Ethnic Group Residents of Sanford, Florida?

Dissertation Chair: W. M. Wanta

Ethan Ririe 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

Jera Elizondo Niewoehner-Green

Major: *Agricultural Education and Communication*

Dissertation: Creating Space for Her Voice: Factors That Influence the Participation of Rural Women in Leadership Roles in Western Honduras

Dissertation Chair: N. L. Stedman

Kenneth A. Noble

Major: *Curriculum and Instruction*

Dissertation: Policing the Hallways: The Origins of School-Police Partnerships in Twentieth Century American Urban Public Schools

Dissertation Chair: S. G. Terzian

Anna Evangeline Normand

Major: *Soil and Water Science*

Minor: *Extension Education*

Dissertation: Global Drivers of Peatland Soil Carbon Chemical Composition and Greenhouse Gas Production

Dissertation Chair: K. R. Reddy

Dissertation Co-chair: M. W. Clark

Matthew D. Norton

Major: *Industrial and Systems Engineering*

Dissertation: Buffered Probability of Exceedance and Application to Machine Learning and Network Optimization

Dissertation Chair: S. Uryasev

Therese Kennelly Okraku

Major: *Anthropology*

Dissertation: A Mixed Method Approach for Improving Teams by Reducing Barriers to Collaboration, Recognizing Team Science, Identifying Emerging Fields, and Evaluating Their Impact on the Public

Dissertation Chair: C. McCarty

Alberto Ortega Jr.

Major: *Economics*

Dissertation: Essays on Political Economy and Education

Dissertation Chair: R. E. Romano

Aylin Ozdes

Major: *Psychology*

Dissertation: Effect of Mental Time Travel on Healthy Choices in Adulthood

Dissertation Chair: N. C. Ebner

Mehmet Özdes

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

Meenakshi Palaniappan

Major: *Counseling Psychology*

Dissertation: The Use of Computer Mediated Sexual Communication in Partnered Women

Dissertation Chair: L. Mintz

Michelle Perdomo

Major: *Linguistics*

Dissertation: Second Language Production and Processing of Phrasal Verb Constructions: A Priming Study

Dissertation Chair: E. Kaan

Arun Kumar Pokhrel

Major: *English*

Dissertation: The Global Environmental Imagination: Environments and Cultures in Post-1960 British and Global Anglophone Novels

Dissertation Chair: P. E. Wegner

Sushma V. Ponukumati

Major: *Plant Pathology*

Dissertation: Diagnostics, Genomics and Population Studies on *Fusarium oxysporum* Formae Speciales Associated with Ornamental Palms

Dissertation Chair: M. L. Elliott

Dissertation Co-chair: J. A. Rollins

Anastasia Haley Potts

Major: *Microbiology and Cell Science*

Dissertation: A Global Approach for a Global Regulator: Integrated Transcriptomics Reveals Regulatory Roles of the Post-Transcriptional Regulator CsrA

Dissertation Chair: T. Romeo

Jason E. Purvis

Major: *Religion*

Dissertation: A 'Circle in a Rectangle': Native Evangelicals, Trans-Indigenous Networks, and The Negotiation between Legitimation and Evasion

Dissertation Chair: R. Wright

Lee Nathaniel Purvis

Major: *School Psychology*

Dissertation: Algebra for All Policy within a Multi-Tiered System of Support Model and Effects on Achievement by Race/Ethnicity, Gender and Socio-Economic Status

Dissertation Chair: D. J. Beaulieu

Dissertation Co-chair: J. H. Kranzler

Md Tauhidur Rahman

Major: *Electrical and Computer Engineering*

Dissertation: Hardware-Based Security Primitives and Their Applications to Supply Chain Integrity

Dissertation Chair: M. M. Tehranipoor

Rahul Rai

Major: *Chemical Engineering*

Dissertation: Growth, Characterization and Reactivity of Rutile IrO₂(100) and RuO₂(110) Thin Films

Dissertation Chair: J. F. Weaver

Vidhya Ramaswamy

Major: *Materials Science and Engineering*

Dissertation: Local, Structural and Systemic Cues for Vascular Tissue Engineering

Dissertation Chair: J. Allen

Aniruddh Ravindran

Major: *Biomedical Engineering*

Dissertation: A Novel Real-Time Neurofeedback Paradigm for Stroke Rehabilitation

Dissertation Chair: A. Gunduz

Dissertation Co-chair: J. J. Daly

Bradley Galloway Reaves

Major: *Computer Engineering*

Dissertation: Authentication Techniques for Heterogeneous Telephone Networks

Dissertation Chair: P. Traynor

Tyeshia Lashae Redden

Major: *Design, Construction, and Planning*

Dissertation: Passing the Torch: Urban Apartheid and the 2016 Summer Olympics

Dissertation Chair: K. E. Larsen

Kaycee Reese

Major: *School Psychology*

Dissertation: The Effect of Mirroring on the Social Engagement of Young Children with Autism Spectrum Disorder

Dissertation Chair: T. M. Smith-Bonahue

Peter H. Rej

Major: *Anthropology*

Dissertation: Investigating the Impact of Culturally Relevant Measures of Stress on Telomere Length

Dissertation Chair: C. J. Mulligan

Jessica M. Rex

Major: *Materials Science and Engineering*

Dissertation: Studies into a Novel Hydrophilic PVP-co-AAM Coating for Low Friction Biomedical Devices and Applications

Dissertation Chair: S. S. Perry

Camila Ribeiro

Major: *Plant Molecular and Cellular Biology*

Dissertation: Multiple Roles of 6-Phosphogluconate Dehydrogenase in Maize Seed Development under Heat Stresses

Dissertation Chair: A. M. Settles

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

Nadia Sofia Riera Faraone

Major: *Microbiology and Cell Science*

Dissertation: Characterization of Beneficial Bacteria within Citrus Rhizospheric Microbiome and Their Effect on Plant Immune Response

Dissertation Chair: N. Wang

Tracey Ann Ritchie

Major: *Forest Resources and Conservation*

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

Dissertation Chair: M. C. Monroe

Ana Maria Rivera

Major: *Communication Sciences and Disorders*

Dissertation: Bilingual and Monolingual Performance on a Linguistic and Nonlinguistic Simon Task

Dissertation Chair: L. J. Altmann

Diana Patricia Rojas Alvarez

Major: *Epidemiology*

Dissertation: Epidemiology and Transmission Dynamics of Arbovirus in Latin America

Dissertation Chair: R. L. Cook

Dissertation Co-chair: I. M. Longini

Alexis Rojas Briceño

Major: *Geology*

Minor: *Geography*

Dissertation: Paleobiological Implications of the Post-Paleozoic Fossil Record of the *Lingulide Brachiopods* and Associated Faunas

Dissertation Chair: M. Kowalewski

Krista A. Romita Grocholski

Major: *Astronomy*

Dissertation: Embedded Clusters in the Large Magellanic Cloud

Dissertation Chair: E. A. Lada

Anand Ramotar Roopsind

Major: *Botany*

Dissertation: Sustainable Forest Management: The Role of Reduced Impact Logging for Timber and Environmental Sustainability

Dissertation Chair: F. E. Putz

Christopher Wade Ross

Major: *Soil and Water Science*

Dissertation: A Region-Wide Analysis of Terrestrial Carbon Cycling Across "The Land of Pines"

Dissertation Chair: S. Grunwald

Elham Sakhaee

Major: *Computer Engineering*

Dissertation: Joint Linear Inverse Problems with Sparse Solutions: Theory and Applications

Dissertation Chair: A. Entezari

Aditi Dilip Satpute

Major: *Horticultural Sciences*

Dissertation: Differential Effect of Improved Citrus Rootstocks and the Nutrition on the Gene Expression of HLB-Infected 'Valencia' Sweet Orange Scion

Dissertation Chair: J. W. Grosser

Sarah Kiley Schoff

Major: *Anthropology*

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

Dissertation Chair: M. W. Warren

Kyle Dwight Schulze

Major: *Mechanical Engineering*

Dissertation: The Contact Mechanics of Soft Surfaces: Cells, Gels, and Elastomers

Dissertation Chair: W. G. Sawyer

Christopher T. Sege

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *Avoidance and Escape: Individual Differences in Defensive Behavior*

Dissertation Chair: P. J. Lang

Sunantha Sethuraman

Major: *Medical Sciences—Genetics*

Minor: *Statistics*

Dissertation: *Deregulation of Human Long Noncoding RNAs by Oncogenic Gamma-Herpesviral MicroRNAs*

Dissertation Chair: R. F. Renne

Landrew Samuel Sevel

Major: *Psychology—Clinical and Health Psychology*

Dissertation: *Training Endogenous Pain Modulation: Effects on Resting-State Functional Brain Connectivity in Healthy Volunteers*

Dissertation Chair: M. E. Robinson

Anne E. Sexton

Major: *Soil and Water Science*

Dissertation: *Aquatic Vegetation Impacts on Sediment Composition, Phosphorus Pools, and Water Quality in South Florida Farm Canals*

Dissertation Chair: S. H. Daroub

Dissertation Co-chair: J. Bhadha

Darbianne K. Shannon

Major: *Curriculum and Instruction*

Minor: *Early Childhood Education*

Dissertation: *Exploring Coach Teacher Interactions within a Practice-Based Coaching Partnership*

Dissertation Chair: E. Bondy

Dissertation Co-chair: P. Snyder

Allyson E. Shea

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: *Uropathogenic *Escherichia coli* Mechanisms of Intracellular Invasion*

Dissertation Chair: Y. Daaka

Runmin Shi

Major: *Statistics*

Dissertation: *Statistical Computing Methods for Big Data Problems*

Dissertation Chair: M. Ghosh

Dissertation Co-chair: F. Liang

Alireza Shojaei Kol Kachi

Major: *Design, Construction, and Planning*

Dissertation: *Extending the Portfolio and Strategic Planning Horizon by Stochastic Forecasting of Unknown Future Projects: FDOT Case Study*

Dissertation Chair: I. Flood

Sinjini Sikdar

Major: *Biostatistics*

Dissertation: *Statistical Methods for Analyzing Genomics Data*

Dissertation Chair: S. Datta

Minhazul Islam Sk

Major: *Computer Science*

Dissertation: *Automatic Discovery of Latent Clusters in General Regression Models*

Dissertation Chair: A. Banerjee

Andrey Vladimirovich Skripnikov

Major: *Statistics*

Dissertation: Topics in Joint Estimation of Vector Autoregressive Models

Dissertation Chair: G. Michailidis

Andrew D. Smith

Major: *Veterinary Medical Sciences*

Dissertation: Development of an Equine MRI Osteoarthritis Scoring System

Dissertation Chair: A. J. Morton

Ley Cody Smith

Major: *Veterinary Medical Sciences*

Dissertation: Pro-Fibrogenic and Estrogen Receptor Signaling Pathways Interact in the Lung: Implication for Fibrotic Lung Disease

Dissertation Chair: T. L. Sabo-Attwood

Dissertation Co-chair: N. D. Denslow

Baobao Song

Major: *Mass Communication*

Dissertation: CSR Communications: Increasing Donations by Self-Construals with Emotion and Group Identification Appeals

Dissertation Chair: M. A. Ferguson

Richard A. Stanton Jr.

Major: *Interdisciplinary Ecology*

Dissertation: Effects of Shrub Encroachment in Grass-Dominated Biomes on Vertebrate Communities

Dissertation Chair: R. J. Fletcher Jr.

Dissertation Co-chair: R. A. McCleery

Richard Deno Constantine Stelter

Major: *Astronomy*

Dissertation: Science-Driven Instrumentation: Image-Slicing Integral Field Spectroscopy, or, Measuring the Universe One Slice at a Time

Dissertation Chair: S. S. Eikenberry

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

Natalie Katherine Stilwell

Major: *Veterinary Medical Sciences*

Dissertation: Ranaviruses in Aquaculture: Genetic Diversity, Improved Molecular Tools, and Experimental Analysis of Husbandry Factors Influencing Morbidity

Dissertation Chair: T. B. Waltzek

Margo Anora Stoddard

Major: *Wildlife Ecology and Conservation*

Dissertation: Interaction of Landscape Structure, Artificial Light, and Predators on Risk Perceived by Beach Mice

Dissertation Chair: L. C. Branch

Caroline Gayle Storer

Major: *Forest Resources and Conservation*

Dissertation: Biological Invasions and Cryptic Diversity: Global Patterns of Genetic Variation in Pest Beetles

Dissertation Chair: J. Hulcr

Carla Marie Strickland-Hughes

Major: *Psychology*

Dissertation: Memory Training in Adulthood: Changing Memory and Self-Regulation

Dissertation Chair: R. L. West

Hao Sun

Major: *Chemistry*

Dissertation: Macromolecular Metamorphosis

Dissertation Chair: B. S. Sumerlin

Jiaqi Sun

Major: *Computer Science*

Dissertation: Reconstruction and Classification of Ensemble Average Propagator Fields from Under Sampled Data in (k,q)-space Using Dictionary Learning

Dissertation Chair: B. C. Vemuri

Dissertation Co-chair: A. Entezari

Syraj Syed

Major: *Higher Education Administration*

Dissertation: Ways of Meaning-Making through Critical Change Events: A Journey through Faculty Change Narratives

Dissertation Chair: D. F. Campbell

Dissertation Co-chair: C. Haynes

Jingyin Tang

Major: *Geography*

Dissertation: Rain Field Prediction in Land-Falling Tropical Cyclones: From a Spatio-Temporal Perspective using Ground-Based Doppler Weather Observations and Big-Spatial-Data Technologies

Dissertation Chair: C. J. Matyas

Xueying Tang

Major: *Statistics*

Dissertation: Bayesian Data Analysis under Shrinkage Priors

Dissertation Chair: M. Ghosh

Dissertation Co-chair: N. A. Bliznyuk

Chengcheng Tao

Major: *Civil Engineering*

Dissertation: Optimization in Virtual Cement and Virtual Plant

Dissertation Chair: F. J. Masters

Dissertation Co-chair: C. C. Ferraro

Fahmyddin A'raaf Tauhid

Major: *Design, Construction, and Planning*

Dissertation: Designing Cities for Tsunami Impact Mitigation: Evaluating Physical Planning using Structural Equation Models in Makassar City, Indonesia

Dissertation Chair: C. Silver

I-Ting Teng

Major: *Chemistry*

Dissertation: Development of DNA Aptamers for Human Liver Cancer and Neurodegenerative Diseases through Molecular Recognition

Dissertation Chair: W. Tan

James D. Thomas

Major: *Medical Sciences—Genetics*

Dissertation: Disrupted Prenatal RNA Processing and Myogenesis in Congenital Myotonic Dystrophy

Dissertation Chair: M. S. Swanson

Dhanashree Thorat

Major: *English*

Dissertation: Melancholic Citizenship: Practices of Communal Grieving in a Time of Terror

Dissertation Chair: M. J. Schueller

George Paul Tiley

Major: *Botany*

Dissertation: Evolutionary Processes and Plant Genome Evolution

Dissertation Chair: J. G. Burleigh

Paula Tribulo

Major: *Animal Molecular and Cellular Biology*

Dissertation: WNT Signaling in the Preimplantation Bovine Embryo

Dissertation Chair: P. J. Hansen

Joanna Troufflard

Major: *Anthropology*

Dissertation: Relationship between Upland and Riverine Settlements in the Lower Amazon Region during Late Precolonial Times

Dissertation Chair: K. E. Sassaman Jr.

Ali Kemal Uncu

Major: *Mathematics*

Dissertation: Some Topics in Q-Series and Partitions

Dissertation Chair: A. Berkovich

Silvia Joao Vau

Major: *Entomology and Nematology*

Minor: *Plant Pathology*

Dissertation: *Mi-1* Gene for Management of Root Knot Disease in Florida Field and Growth Chamber Evaluations

Dissertation Chair: D. W. Dickson

Camilo Vélez Cuervo

Major: *Electrical and Computer Engineering*

Dissertation: Engineering Micro-Magnetic Field Patterns for Microrobotics

Dissertation Chair: D. P. Arnold

Deven N. Vyas

Major: *Anthropology*

Dissertation: Genetic Inferences on Human Evolutionary History in Southern Arabia and the Levant

Dissertation Chair: C. J. Mulligan

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

Lu Wan

Major: *Biomedical Engineering*

Minor: *Computer Engineering*

Dissertation: Imaging Human Brain Functions in Single Individuals and in Groups of Interacting Individuals

Dissertation Chair: M. Ding

Jiliang Wang

Major: *Chemistry*

Dissertation: The Interaction between Perfluoro-Arynes and Conjugated Polymers and Its Application in Polymer Solar Cells

Dissertation Chair: K. S. Schanze

Dissertation Co-chair: R. K. Castellano

Xi Angie Wang

Major: *Business Administration—Accounting*

Dissertation: The Impact of Mandatory Disclosure on Corporate Voluntary Disclosure: Patent Law Change and R&D Disclosure

Dissertation Chair: J. W. Tucker

Yanyue Wang

Major: *Chemistry*

Dissertation: Engineering DNA Micelle Flares and Copolymers for Cancer Diagnosis and Therapy

Dissertation Chair: W. Tan

Yuting Wang

Major: *Chemistry*

Dissertation: Chemical Signaling in Nematodes and Interactions with Microorganisms

Dissertation Chair: R. A. Butcher

Martin P. Wegman

Major: *Epidemiology*

Dissertation: Comparative Effect of Managed Care on Quality and Utilization of Care for Medicaid Adults with Disabilities

Dissertation Chair: C. L. Striley

Dissertation Co-chair: E. A. Shenkman

Jing Taylor Wen

Major: *Mass Communication*

Dissertation: Facing Anger versus Fear: How Individuals Regulate Level of Control in Risk Communication

Dissertation Chair: J. D. Morris

Xiao Wen

Major: *Electrical and Computer Engineering*

Dissertation: On the Exploration of Electro-Infiltrated Magnetic Nanocomposites

Dissertation Chair: D. P. Arnold

Brittany Lauren Werch

Major: *School Psychology*

Dissertation: Sustained Implementation of BEST in CLASS Instructional Practices: A Follow-Up with Two Teacher Cohorts

Dissertation Chair: N. L. Waldron

Dissertation Co-chair: M. A. Conroy

Sarah Cathleen Westen

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Adherence in Youth with Type 1 Diabetes on Multiple Daily Injections and Insulin Pump Therapy and Associated Psychological Factors

Dissertation Chair: D. Janicke

Karessa White

Major: *Communication Sciences and Disorders*

Dissertation: Cochlear NADPH Redox State and Antioxidant Defense in Mice

Dissertation Chair: S. Someya

Margaret Ellen White

Major: *Medical Sciences—Genetics*

Dissertation: Forced Induction of Differentiation in Osteosarcoma Tumor Initiating Cells

Dissertation Chair: S. C. Ghivizzani

William Cary Whiteford

Major: *Design, Construction, and Planning*

Minor: *Real Estate*

Dissertation: Can GeoDesign Save the World? A Framework and Methodology to Envision Smarter Cities

Dissertation Chair: C. Silver

Chris Hollister Wilson

Major: *Interdisciplinary Ecology*

Dissertation: Ecology and Management of Soil Carbon on Ranchlands of Florida, USA

Dissertation Chair: S. Flory

Tessa Elizabeth Gerth Wimberley

Major: *Counseling Psychology*

Dissertation: Perfectionism, Help-Seeking, and Self-Compassion

Dissertation Chair: L. Mintz

Allysha Powanda Winburn

Major: *Anthropology*

Dissertation: Skeletal Age Estimation in Modern European-American Adults: The Effects of Activity, Obesity, and Osteoarthritis on Age-Related Changes in the Acetabulum

Dissertation Chair: M. W. Warren

Brian James Wingender

Major: *Materials Science and Engineering*

Dissertation: Development of Collagen-Apatite Composite Materials with Lamellar Microstructure and Bone-Like Nanostructure for Use as Bone Tissue Engineering Scaffolds

Dissertation Chair: L. B. Gower

Shan Shan Wong

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Assessing the Benefits of Photovoice on Quality of Life Outcomes in Patients and Caregivers Impacted by Pancreatic Cancer

Dissertation Chair: D. B. Pereira

Andrew Henry Woolum

Major: *Business Administration—Management*

Dissertation: Revisiting the Myth That Personality Does Not Affect Negotiation Outcomes: Emergent Effects in Bilateral Negotiations

Dissertation Chair: A. Erez

Wei Wu

Major: *Agricultural and Biological Engineering*

Dissertation: Fermentation of Carbohydrates in Switchgrass to Ethanol: Optimizing Pretreatment and Fermentation Conditions

Dissertation Chair: P. C. Pullammanappallil

Dissertation Co-chair: K. T. Shanmugam

Fuyong Xing

Major: *Electrical and Computer Engineering*

Dissertation: High-throughput Biomedical Image Computing for Digital Health

Dissertation Chair: L. Yang

Brittany Martin Xu

Major: *Food Science*

Dissertation: Assessing the Quality of Huanglongbing Symptomatic and Asymptomatic Orange Oils from Florida Hamlin and Valencia Oranges

Dissertation Chair: R. M. Goodrich

Suwa Xu

Major: *Biostatistics*

Dissertation: Learning High-Dimensional Bayesian Networks for General Types of Random Variables

Dissertation Chair: F. Liang

Bidhyananda Yadav

Major: *Civil Engineering*

Dissertation: Direct Stream Hydrograph Prediction from Digital Elevation Model

Dissertation Chair: K. Hatfield

Qie Yin

Major: *Business Administration—Finance*

Dissertation: The Speed of Adjustment to the Target Market Value Leverage Is Slower than You Think

Dissertation Chair: J. R. Ritter

Syed Saoud Zaidi

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Does the Placenta Pose a Barrier to the Inhaled Corticosteroids?

Dissertation Chair: G. Hochhaus

Ke Zhang

Major: *Plant Pathology*

Dissertation: The Population Structure of *Phyllosticta citricarpa* and Seasonal Dynamics of *Phyllosticta* spp. in Floridian Citrus Grove

Dissertation Chair: M. M. Dewdney

Dissertation Co-chair: J. A. Rollins

Liyuan Zhang

Major: *Statistics*

Dissertation: Trace Class Markov Chains for Bayesian Shrinkage Models

Dissertation Chair: K. Khare

Long Zhang

Major: *Physics*

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

Dissertation Chair: H. P. Cheng

Wei Zhang

Major: *Mathematics*

Dissertation: Accelerated Bundle Level Type Methods for Large Scale Convex Optimization

Dissertation Chair: Y. Chen

Dissertation Co-chair: G. Lan

Xiaowen Zhang

Major: *Geology*

Dissertation: Transport of Arctic Soil Organic Carbon to River Systems: Effects of Global Warming

Dissertation Chair: T. S. Bianchi

Yuanxin Zhang

Major: *Design, Construction, and Planning*

Minor: *Statistics*

Dissertation: Preliminary Cost Estimation of Public Transportation Projects Using Data-Driven Based Methods

Dissertation Chair: R. E. Minchin Jr.

Chunchun Zhao

Major: *Computer Engineering*

Dissertation: Cache Efficient Algorithms for Bioinformatics

Dissertation Chair: S. K. Sahni

Guannan Zhou

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Ventral Respiratory Column Expiratory Neurons Participation in the Fictive Swallow in the Cat

Dissertation Chair: P. W. Davenport

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

Yue Zhou

Major: *Chemistry*

Dissertation: Pyruvate Dehydrogenase Couples the Biosynthesis of Indole-Containing Pheromones to Primary Metabolism in *C. Elegans*

Dissertation Chair: R. A. Butcher

Qiang Zhu

Major: *Horticultural Sciences*

Dissertation: Potassium and Phosphorus Fertilizer Recommendations for Implementation of Best Management Practices for Tomato in Calcareous Soils

Dissertation Chair: M. Ozores-Hampton

Dissertation Co-chair: Y. Li

Yu Zhu

Major: *Chemistry*

Dissertation: Novel Pi-Conjugated Architectures for Applications in Supramolecular Chemistry and Materials

Dissertation Chair: R. K. Castellano

Yun Zhu

Major: *Electrical and Computer Engineering*

Dissertation: Enabling Technologies for Next-Generation Wireless Networks

Dissertation Chair: D. Wu

Ioannis Ziogas

Major: *Political Science*

Dissertation: State Emergence and Interstate Conflict: Determinants and Effects of New State Behavior

Dissertation Chair: L. E. Sjoberg



DOCTOR OF EDUCATION

Joanne Robin Barrett

Major: *Curriculum and Instruction*

Dissertation: A Middle School Intervention on Student Perceptions about Computer Science

Dissertation Chair: A. D. Ritzhaupt

Sarah C. Fornero

Major: *Curriculum and Instruction*

Dissertation: Factors Associated with Student Departure from Entirely Online Master's Degree Programs

Dissertation Chair: S. Kumar

Theresa Ann Greenbaum

Major: *Higher Education Administration*

Dissertation: Technobiographies Qualitative Stories Examining the Intersection of Age, Class, and Technology Identity within the Community College Baby Boomer Population

Dissertation Chair: D. F. Campbell

Dissertation Co-chair: C. Haynes

Margie Burke Hensler

Major: *Higher Education Administration*

Dissertation: The Impact of International Service Learning on Community College Students Self-Authorship

Dissertation Chair: D. A. Kramer

Debra Ann Ingersoll

Major: *Educational Leadership*

Dissertation: Elementary Principal's Knowledge and Support of Student Homelessness

Dissertation Chair: L. S. Behar-Horenstein

Dissertation Co-chair: L. B. Eldridge

Sharda L. Jackson Smith

Major: *Educational Leadership*

Dissertation: An Examination of Assessed Valuation to Income for Funding Public Education in Florida

Dissertation Chair: R. C. Wood

Desiree Elizabeth LoScalzo

Major: *Curriculum and Instruction*

Dissertation: Evolving Understandings and Uses of Culturally Relevant Literature by Rural Head Start Teachers in a Professional Learning Community

Dissertation Chair: E. Bondy

Ayola M. Singh-Kreitz

Major: *Higher Education Administration*

Dissertation: In the Search for Greatness: A Case Study on Understanding Service Quality in Higher Education IT

Dissertation Chair: J. C. Ortagus

Amy Lee Valente

Major: *Curriculum and Instruction*

Dissertation: Exploring the Implementation of Online Business Degree Programs in Community Colleges

Dissertation Chair: S. Kumar

Rita M. Vasquez

Major: *Curriculum and Instruction*

Dissertation: De-Normalizing Normal: Principal Leadership for Educational Equity

Dissertation Chair: E. Bondy

Paul Benjamin Causey Wolff

Major: *Curriculum and Instruction*

Dissertation: Self-Determined Gamification in an Online Web Portal: Employee Performance and Perceptions

Dissertation Chair: S. Kumar

DOCTOR OF AUDIOLOGY

McKenna C. Bellamy
Troy Jared Dyer

Andrea K. Gohmert
Michele Burnson Hand
Philippa Ellen James

Cecile Rossetti
Alisha G. Severson

DOCTOR OF BUSINESS ADMINISTRATION

Thomas Richard Arnold
Brent A. Berthy
Jennifer M. Cainas
Jamey Austin Darnell
Shalini Sabharwal Gopalkrishnan

Brian Keith Hasson
James Hendry Hoover
Jose Luis Castro Iglesias
Kurt Christian Jacobs

Enrique Paul Lacayo
Anthony Daniel Sanor
David E. Spohn
Jason Robert Thogmartin
Steven Dale Tufts

DOCTOR OF NURSING PRACTICE

Kathleen Newbold Adragna

Joanna Marie McLaughlin
Jennifer Ann Powell

Susan Marie Straub

PROFESSIONAL DEGREES

THE FREDRIC G. LEVIN COLLEGE OF LAW

Dean Laura A. Rosenbury

JURIS DOCTOR

Joshua W. Degler
Brianna Kacie Kolota

Ian Nelson Perkovich

Anjali D. Sharma
James F. Tyer V *

THE COLLEGE OF PHARMACY

Dean Julie A. Johnson

DOCTOR OF PHARMACY

Kizito Oluwatosin Adejumo
Iroro O. Akpovi
Jyotiben Arya
Suzette Clair Blake
Timothy R. Bormann
Jill R. Bourdage
Nilubol Y. Cencula
Katherine Marie Coleman
Dalia Elkabli
Liliana M. Gutsul
Derek T. Hettinger

Chi-Mei Hwang
Niramol Kitsawadi
Sasirekha Kumar
Susan Evelyn Laird
Diane Marie Lawson
Kim Le
Brian D. Lynch
Yolanda D. McElroy
Christine J. Nelson
Laura A. Nix

Maria Nerissalene Madlambayan Perez
Heera Persaud
Scott C. Preische
Lysette C. Rhine
Marie-Claire Lise Savoie
Peter S. Shehata
Jay C. Swerbilow
Ayodelle Nayo Rosa Syphax
Jennifer Thao Tran
Nwanne Umazi Udeagha
Benjamin J. Wood

*Cum Laude

**Magna Cum Laude

***Summa Cum Laude

(Cum Laude, Magna Cum Laude and Summa Cum Laude are tentative and subject to final grades)



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. 14 in U.S. News & World Report "Top Public Universities" (2016); 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 over \$30,000 (2015-16).

UF

2017 SUMMER
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 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.

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Diplomas

Diplomas will be mailed to the graduate's permanent home mailing address in September 2017.

UF

2017 SUMMER
COMMENCEMENT

Caps and Gowns, An Explanation

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.





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