

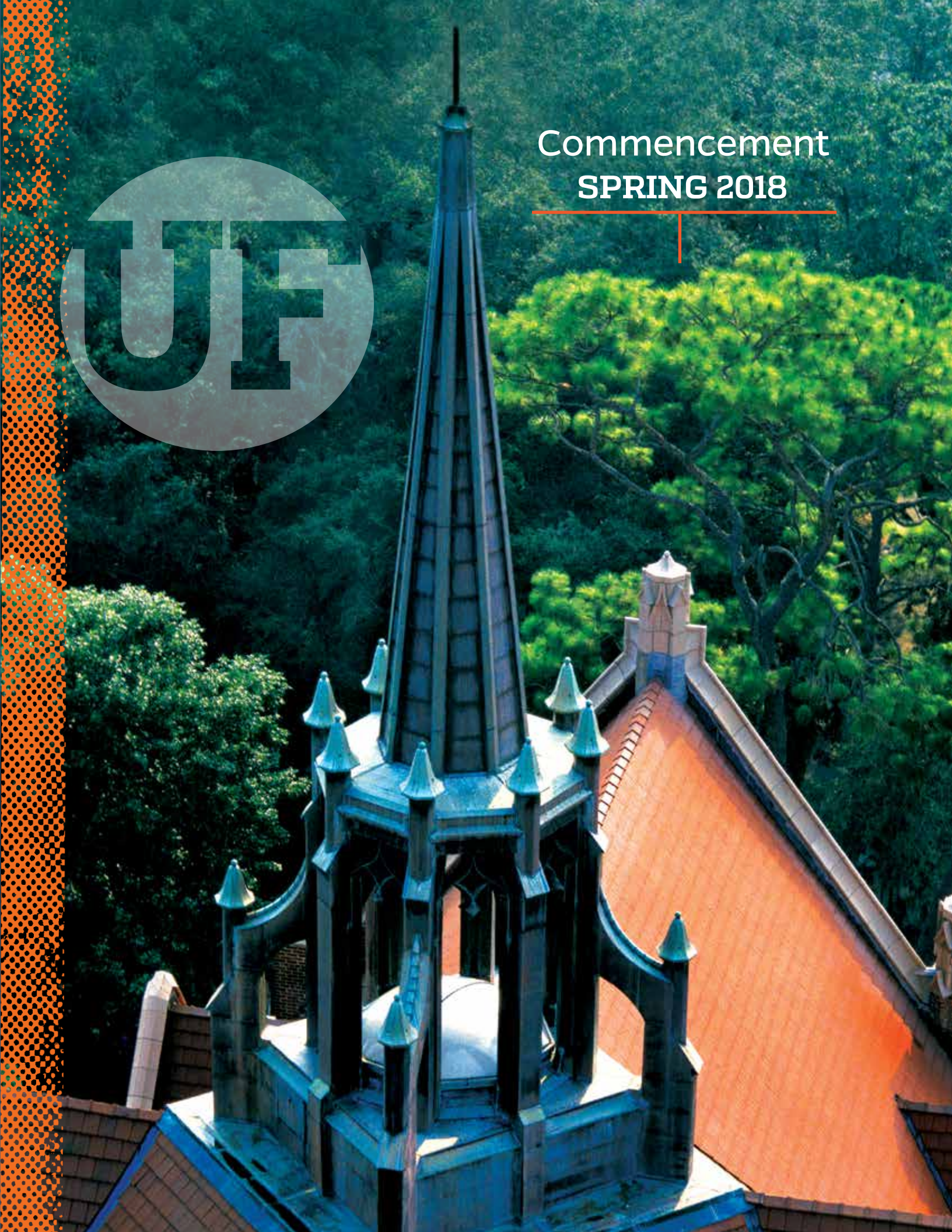
# Commencement

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



Commencement  
**SPRING 2018**

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## Greetings from the President

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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 2018.

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

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

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

Good luck, best wishes, and Go Gators!



W. Kent Fuchs



## University of Florida President

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### Dr. W. Kent Fuchs

Dr. Kent Fuchs became the 12<sup>th</sup> President of the University of Florida in January 2015. Building on many years of excellence and focused leadership, the university has reached its goal of joining the nation's top-ten public research universities. Dr. Fuchs has set UF on a path to joining the top-five public research universities and becoming the nation's number one university for comprehensive excellence. UF is working toward those goals through the creation of 500 new faculty positions, the addition of advanced and beautiful university facilities and an ongoing \$3 billion fundraising campaign.

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

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

President Fuchs earned his doctorate in electrical and computer engineering from the University of Illinois, and a Master of Divinity from Trinity Evangelical Divinity School. He credits divinity school with teaching him communication and community-building skills, and to balance his innately analytic perspective with a deep appreciation for human relationships. He also holds a Bachelor of Science in Engineering from Duke University.

Dr. Fuchs is married to Linda Moskeland Fuchs, an art historian whose scholarship centers on the sculpture of sarcophagi created in the first centuries of Christian art-making. Mrs. Fuchs has two master's degrees in art history, from the University of Chicago and Cornell, and a third in Biblical studies, from Trinity Evangelical Divinity School. The Fuchses have three sons, a daughter, and three grandchildren.

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

# University of Florida Leadership

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## State Board of Education

**Pam Stewart**  
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**Marva Johnson**  
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*Vice Chair*

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**Ben Gibson**  
**Tom Grady**  
**Michael Olenick**  
**Joe York**

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*Chancellor*

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*Vice Chair*

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**Patricia Frost**  
**H. Wayne Huizenga, Jr.**  
**Darlene L. Jordan**  
**Alan M. Levine**  
**Wendy S. Link**  
**Edward A. Morton**  
**Jay S. Patel**  
**Kishane Patel**  
**Norman D. Tripp**  
**Gary S. Tyson**  
**Fernando J. Valverde**  
**Zach P. Zachariah**

## University of Florida Board of Trustees

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**Thomas G. Kuntz**  
**W. Smith Meyers**  
**Daniel T. O'Keefe**  
**Rahul Patel**  
**Marsha D. Powers**  
**David M. Quillen**  
**Jason J. Rosenberg**  
**Robert G. Stern**  
**Anita G. Zucker**

## President and Vice Presidents of the University

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

**Joseph Glover, Ph.D.**  
*Provost and Senior Vice President - Academic Affairs*

**David S. Guzick, M.D., Ph.D.**  
*Senior Vice President - Health Affairs*

**Jack Payne, Ph.D.**  
*Senior Vice President - Agriculture and Natural Resources*

**Charles E. Lane, D.P.A.**  
*Senior Vice President and Chief Operating Officer - Administration*

**Elias G. Eldayrie, M.B.A.**  
*Vice President and Chief Information Officer - Information Technology*

**Zina Evans, Ph.D.**  
*Associate Provost and Vice President - Enrollment Management*

**Michael V. McKee, B.S.**  
*Vice President and Chief Financial Officer - Finance*

**Jodi Gentry, M.A.**  
*Vice President - Human Resource Services*

**Amy M. Hass, J.D.**  
*Interim Vice President - General Counsel*

**David Parrott, Ed.D.**  
*Vice President - Student Affairs*

**Thomas J. Mitchell, M.S.**  
*Vice President - Advancement*

**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.**  
*Warrington College of Business*

**A. Isabel Garcia, D.D.S., M.P.H.**  
*College of Dentistry*

**Chimay Anumba, Ph.D.**  
*College of Design, Construction and Planning*

**Glenn E. Good, Ph.D.**  
*College of Education*

**Cammy R. Abernathy, Ph.D.**  
*Herbert Wertheim College of Engineering*

**Henry T. Frierson, Ph.D.**  
*The Graduate School*

**Michael Reid, Ph.D.**  
*College of Health and Human Performance*

**Nick Place, Ph.D.**  
*IFAS Extension*

**Jacqueline Burns, Ph.D.**  
*IFAS Research*

**Leonardo Villalón, Ph.D.**  
*International Center*

**Diane H. McFarlin, B.S.**  
*College of Journalism and Communications*

**Laura A. Rosenbury, J.D.**  
*Fredric G. Levin College of Law*

**David E. Richardson, Ph.D.**  
*College of Liberal Arts and Sciences*

**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.**  
*Dean of Students*

## COMMENCEMENT AGENDA – FRIDAY, MAY 4, 9:00 a.m.

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Presiding	W. Kent Fuchs <i>President</i>
Processional	Gainesville Brass Quintet
National Anthem	Anthony Offerle Gainesville Brass Quintet
Welcome	W. Kent Fuchs
Introductions	Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i>
Awarding of Honorary Degrees Presented by	Joseph Glover W. Kent Fuchs
Doctor of Technology presented to	Herbert Wertheim <i>Miami, Florida</i>
Doctor of Fine Arts presented to	Chita Rivera <i>New York, New York</i>
Commencement Address	Ann Searight Christiano <i>Frank Karel Chair in Public Interest Communications</i>
Presenting Candidates for Degrees	Joseph Glover
Conferring of Degrees	W. Kent Fuchs
Closing Remarks	W. Kent Fuchs
Alma Mater	Anthony Offerle
Recessional	Gainesville Brass Quintet
Postlude	Gainesville Brass Quintet



# Commencement Speaker

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## **Ann Searight Christiano**

*Frank Karel Chair in Public Interest Communications and Director of the Center for Public Interest Communications*

Ann Christiano is the Frank Karel Chair in Public Interest Communications and the director of the newly established Center for Public Interest Communications. In that role, she is developing a first-ever curriculum in public interest communications, connecting practitioners and scholars who are already working in the field, and nurturing and sharing research that can advance this newly emerging academic discipline. Public Interest Communications uses science-driven strategic communications and storytelling to advance positive social change.

Ann also directs the frank gathering, which brings hundreds of leaders from around the world who are working on the front lines of social causes, as well as scholars and funders, together in Gainesville to share the best of what they know every February.

Before she came to the University of Florida in 2010, Ann was a senior communications officer for the Robert Wood Johnson Foundation where she directed communications efforts for programs that address the social factors like housing, education and mental health that drive health and well-being.



Ann's writing has appeared in the Stanford Social Innovation Review, and she was the University of Florida Teacher of the Year in 2014. Her work through the center includes partnerships with the United Nations High Commissioner on Refugees, the Department of State, and several agencies that work in this domain. She has worked with several federal agencies, the Gates Foundation, nonprofits and foundations throughout Florida. She regularly trains scientists and other leaders to more effectively convey the importance of their work.



# Honorary Degree – Doctor of Technology

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## Herbert “Herbie” Wertheim

Dr. Herbert “Herbie” Wertheim is a physician, inventor, entrepreneur, philanthropist and a University of Florida Distinguished Alumnus. Dr. Wertheim was a pioneer in identifying ultraviolet light as a primary cause of cataracts and retinal deterioration. He has secured over 100 patents and trademarks, and his series of protective coatings have become the industry standard. Dr. Wertheim founded Brain Power Inc., and his innovative products, created with advanced robotics as well as complex chemical processes, have been a medical miracle for millions of people.



Dr. Wertheim was awarded the Horatio Alger award in 2011 for his exceptional ability to overcome adversity, namely for championing his own dyslexia. He has a keen interest in higher education and has completed graduate studies at Stanford University, the London School of Economics, Northwestern University and the International Institute for Management Development in Lausanne, Switzerland. He is a life member of Tau Beta Pi Honorary Engineering Society.

The Dr. Herbert & Nicole Wertheim Family Foundation, aided by the leadership of daughters Erica Wertheim Zohar and Vanessa Von Wertheim, is committed to investing in a better world for everyone.





# Honorary Degree - Doctor of Fine Arts

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## Chita Rivera

An accomplished and versatile actress/singer/dancer, Chita Rivera has won two Tony Awards as Best Leading Actress in a Musical and received eight additional Tony nominations for an exceptional 10 total Tony nominations. She recently starred in *The Visit*, the final John Kander/Fred Ebb/Terrence McNally musical directed by John Doyle and choreographed by Graciela Daniele on Broadway, the Broadway revival of *The Mystery of Edwin Drood*, the Broadway and touring productions of *The Dancer's Life*, a dazzling new musical celebrating her spectacular career, written by Terrence McNally and directed by Graciela Daniele, and the revival of the Broadway musical *Nine* with Antonio Banderas. She trained as a ballerina (from age 11) before receiving a scholarship to the School of American Ballet from legendary George Balanchine.

Ms. Rivera's first appearance (age 17) was as a principal dancer in *Call Me Madam*. Her electric performance as Anita in the original Broadway premiere of *West Side Story* brought her stardom, which she repeated in London. Her career is highlighted by starring roles in *Bye Bye Birdie*, *The Rink* (Tony Award), *Chicago*, *Jerry's Girls*, *Kiss of the Spider Woman* (Tony Award), and the original Broadway casts of *Guys and Dolls*, *Can-Can*, *Seventh Heaven* and *Mr. Wonderful*. She has been on national tour with *Born Yesterday*, *The Rose Tattoo*, *Call Me*



*Madam*, *Threepenny Opera*, *Sweet Charity*, *Kiss Me Kate*, *Zorba*, and *Can-Can* with The Rockettes.

Ms. Rivera was awarded The Presidential Medal of Freedom by former President Barack Obama in 2009. She received the coveted Kennedy Center Honor in 2002 and became the first Hispanic woman chosen to receive this award. In November 2016, she headlined at Carnegie Hall and, in 2015, *Great Performances* aired its special *Chita Rivera: A Lot of Livin' To Do*, a retrospective of her extraordinary life and career nationally on PBS. Her current solo CD is titled *And Now I Swing*. Her most treasured production is her daughter, singer/dancer/choreographer Lisa Mordente.

# GRADUATE SCHOOL

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

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## DOCTOR OF PHILOSOPHY

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### **Mohammad Y. Abdulrahman**

Major: *Geography*

Dissertation: Channel Bed and Geometry Changes in the Upper and Middle Atchafalaya River 1967 to 2015

Dissertation Chair: J. Mossa

### **Angie M. Adkin**

Major: *Animal Sciences*

Dissertation: The Characterization of Phytoestrogens in Equine Feeds and Serum

Dissertation Chair: L. K. Warren

### **Mimonah Qasim Al Qathrady**

Major: *Computer Engineering*

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

Dissertation Chair: A. A. Helmy

### **Siham M. Alhaider**

Major: *Linguistics*

Dissertation: Linguistic Landscape: A Contrastive Study between Souk Althulatha'a and Asir Mall in Abha City, Saudi Arabia

Dissertation Chair: F. McLaughlin

### **Lianne M. Allen-Jacobson**

Major: *Zoology*

Dissertation: Evolutionary Transitions in Individuality: Their Adaptive Benefit, Their Completion, and Their Application to Corals

Dissertation Chair: C. W. Osenberg

Dissertation Co-chair: S. McKinley

### **Ayad Khalid Almaimani**

Major: *Design, Construction and Planning*

Dissertation: BIM-Driven Islamic Architecture

Dissertation Chair: N. O. Nawari

Dissertation Co-chair: R. R. Issa

### **Brian Matthew Amos**

Major: *Political Science*

Dissertation: Gerrymandering in Florida and the Nation

Dissertation Chair: D. A. Smith

### **Jeremy J. Anderson**

Major: *Electrical and Computer Engineering*

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

Dissertation Chair: J. G. Harris

### **Sam C. Arden**

Major: *Environmental Engineering Sciences*

Dissertation: Resource Use in the Urban Water System

Dissertation Chair: M. T. Brown

### **Clayton Walker Argenbright**

Major: *Materials Science and Engineering*

Dissertation: Effect of Nanoscale and Hierarchical Topographies on the Antifouling Efficacy of Silicone Surfaces

Dissertation Chair: A. B. Brennan

**George J. Armanious**

Major: *Aerospace Engineering*

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

Dissertation Chair: R. C. Lind Jr.

**Eyup Serdar Ayaz**

Major: *Computer Science*

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

Dissertation Chair: A. Ungor

**Immanuel Babu Henry Samuel**

Major: *Biomedical Engineering*

Dissertation: Cognitive Processes and Their Functional Significance in Neural Compensation and Neural Inhibition

Dissertation Chair: M. Ding

**Jade Aster Tumala Badon**

Major: *Entomology and Nematology*

Dissertation: Understanding the Effects of Land Use Change and Typhoons on the Diversity, Richness, and Communities of Butterflies (Lepidoptera: Rhopalocera) on Negros Island, Philippines

Dissertation Chair: T. C. Emmel

**Karen Michelle Bailey**

Major: *Interdisciplinary Ecology*

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

Dissertation Chair: R. A. McCleery

Dissertation Co-chair: G. Barnes

**Caitlin Baird**

Major: *Anthropology*

Dissertation: The Shape of a Child: Chronic Malnutrition and the Cycle of Poverty in Solola, Guatemala

Dissertation Chair: R. B. Kernaghan

**Alexis Baldacci**

Major: *History*

Dissertation: Daily Heroics in Revolutionary Cuba: Women, Material Culture, and Everyday Life, 1971-1994

Dissertation Chair: L. Guerra

**Jacob Daniel Ball**

Major: *Epidemiology*

Dissertation: Epidemiological Models of Infectious Diseases for Clinical and Public Health Decision Support

Dissertation Chair: X. Chen

**Samantha Ashley Banal**

Major: *English*

Dissertation: Searching for the Art-Life: Embodying Wildean Aesthetics from the Late Nineteenth to the Early Twenty-First Century

Dissertation Chair: C. G. Snodgrass

**Evandro Barbosa da Silva**

Major: *Soil and Water Sciences*

Dissertation: Phytoremediation of Arsenic-Contaminated Soils by *Pteris vittata*: Arsenic Removal and Biomass Disposal

Dissertation Chair: L. Q. Ma

Dissertation Co-chair: A. C. Wilkie

**Elizabeth Kay Bartlett**

Major: *Mechanical Engineering*

Dissertation: Experimental Characterization and Modeling of High Strength Martensitic Steels Based on a New Distortional Hardening Model

Dissertation Chair: O. Cazacu

**Kristen Benedini**

Major: *Criminology, Law and Society*

Dissertation: Sibling Maltreatment: Correlates and Consequences of an Understudied Form of Family Violence

Dissertation Chair: A. A. Fagan

**Avni Bhatt**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Carbonic Anhydrase Applications in Human Health

Dissertation Chair: R. McKenna

**Tapomoy Bhattacharjee**

Major: *Mechanical Engineering*

Dissertation: 3D Cell Behavior in Jammed Microgel Media: 3D Printed Constructs and Single Cells

Dissertation Chair: T. E. Angelini

**Joseph B. Black**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: GRK5 Promotes *in vitro* and *in vivo* Prostate Cancer Progression

Dissertation Chair: Y. Daaka

**Nathan Matthew Blinn**

Major: *Design, Construction and Planning*

Dissertation: The Construction Technology Integration Guide (C-TIG): A Comprehensive Evaluation and Integration Strategy for Advanced Construction Technologies

Dissertation Chair: R. R. Issa

**Jon Lucas Boatwright**

Major: *Botany*

Dissertation: The Characterization of Genomic and Transcriptomic Features in Non-Model Organisms

Dissertation Chair: W. B. Barbazuk

**Duane C. Bock III**

Major: *Chemistry*

Dissertation: Design and Synthesis of Tungsten Oxo-Alkoxide Complexes for Chemical Vapor Deposition of WO<sub>x</sub> Materials

Dissertation Chair: L. A. McElwee-White

**Kyle M. Bohunicky**

Major: *English*

Dissertation: Game Composition: Writing With(In) Digital Games

Dissertation Chair: S. I. Dobrin

**Julian Langston Brinkley**

Major: *Human-Centered Computing*

Dissertation: Autonomous Vehicles and Visually Impaired Operators

Dissertation Chair: S. Daily

Dissertation Co-chair: J. E. Gilbert

**Alyssa Morgan Burns**

Major: *Nutritional Sciences*

Minor: *Agricultural Education and Communication*

Dissertation: Dietary and Functional Fibers and the Effect on Diet Quality and Gastrointestinal Function: Randomized Clinical Studies

Dissertation Chair: R. J. Henken

**Zachary Ronald Dylan Thomas Bush**

Major: *Physics*

Dissertation: Sub-Photon per Second Detection using Optical Heterodyne Interferometry

Dissertation Chair: G. Mueller

### **Brittany E. Campbell**

Major: *Entomology and Nematology*

Dissertation: Biology and Control of Two Species of Human Parasitic Bed Bugs: *Cimex lectularius* Linnaeus and *Cimex hemipterus* Fabricius

Dissertation Chair: R. W. Baldwin

Dissertation Co-chair: P. G. Koehler

### **Zhendong Cao**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Baroclinic Effects on the Long-Term Estuarine Morphodynamic Evolution

Dissertation Chair: M. Olabarrieta Lizaso

### **Edward Leroy Carlisle IV**

Major: *Electrical and Computer Engineering*

Dissertation: Fault Injection, Analysis, and Radiation Testing with DrSEUs: The Dynamic Robust Single-Event Upset Simulator

Dissertation Chair: A. D. George

### **Richard Nicholas Carmean**

Major: *Chemistry*

Dissertation: Using Thiocarbonylthio Photolysis to Access Ultra-High Molecular Weight Polymers and to Functionalize Polymer End Groups

Dissertation Chair: B. S. Sumerlin

### **Andrew M. Carnes**

Major: *Physics*

Dissertation: A Search for the Standard Model Higgs Boson Decaying to Two Muons at the CMS Experiment

Dissertation Chair: P. R. Avery

### **Marlon Edgardo Carranza Zelaya**

Major: *Anthropology*

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

Dissertation Chair: R. B. Kernaghan

### **Felipe Lenz Carvalho**

Major: *Electrical and Computer Engineering*

Dissertation: Characteristics of Triggered Lightning Radiation Source and Sky Waves

Dissertation Chair: M. A. Uman

### **Rudrasis Chakraborty**

Major: *Computer Science*

Dissertation: Geometry-Aware Efficient Statistical Analysis on Riemannian Manifolds

Dissertation Chair: B. C. Vemuri

### **Kimmel Chamat Garces**

Major: *Design, Construction and Planning*

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

Dissertation Chair: K. I. Frank

### **Tania Chavarria Pizarro**

Major: *Zoology*

Dissertation: Genetic and Phenotypic Population Structure of an Endemic Mangrove Warbler Subspecies (*Setophaga petechia xanthotera*) along an Environmental Gradient in Costa Rica

Dissertation Chair: R. T. Kimball

### **Chao Chen**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Observational Studies for Inflammatory Bowel Diseases

Dissertation Chair: A. G. Hartzema

**Jonathan Joseph Cho**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Mechanisms Governing Th17 Pathogenicity and Novel Treatment for Multiple Sclerosis

Dissertation Chair: D. Avram

**Kwansun Cho**

Major: *Electrical and Computer Engineering*

Minor: *Communication Sciences and Disorders*

Dissertation: Foreign Accent Assessment in Second-Language Vowels

Dissertation Chair: J. G. Harris

**Inchul Choi**

Major: *Computer Science*

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

Dissertation Chair: A. Banerjee

**Yoonyoung Choi**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Relationship between the Time since the Last Active Medical Support for Chronic Lung Disease and the Risk of Respiratory Syncytial Virus Hospitalizations in Infants

Dissertation Chair: A. G. Winterstein

**Md Golam Ferdous Chowdhury**

Major: *Horticultural Sciences*

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

Dissertation Chair: J. K. Brecht

Dissertation Co-chair: M. A. Ritenour

**Alec Seung Chung**

Major: *Political Science*

Dissertation: Economic Interdependence and Conflict between States

Dissertation Chair: M. L. Brown

**Jae Woo Chung**

Major: *Health and Human Performance*

Dissertation: Neuroimaging in Parkinson's Disease

Dissertation Chair: D. E. Vaillancourt

**Jaeshik Chung**

Major: *Environmental Engineering Sciences*

Dissertation: Effects of Spatiotemporal Boundary Variation in Contaminant Transport Phenomena of Groundwater Resources near Landfills

Dissertation Chair: T. G. Townsend

Dissertation Co-chair: J. H. Chung

**Yongmin Chung**

Major: *Agricultural and Biological Engineering*

Dissertation: Development of a Nonlinear Controller for an IMU-based Load-leveling System on an Over-the-Top Citrus Harvester with Optional Hydraulic Accumulator Suspension

Dissertation Chair: T. F. Burks

**Stephanie Sophia Cinkovich**

Major: *Zoology*

Dissertation: The Role of Host Composition and Asymptomatic Infection on the Transmission Dynamics of Zoonotic Diseases

Dissertation Chair: D. A. Cummings

**Adam P. Cismesia**

Major: *Chemistry*

Dissertation: A Mass-Selective Cryogenic Linear Ion Trap for the Structural Elucidation of Metabolites

Dissertation Chair: N. C. Polfer

**Daniel Claudino**

Major: *Chemistry*

Dissertation: Atomic Natural Orbital Basis Sets Based on Coupled Cluster Theory

Dissertation Chair: R. J. Bartlett

**Cristian Cocconcelli**

Major: *Civil Engineering*

Dissertation: Design and Evaluation of Hot Mix Asphalt (HMA) Mixtures Used as Interlayer to Mitigate Near-Surface Reflective Cracking (RC) in Flexible Pavement

Dissertation Chair: R. Roque

**Zachary K. Collier**

Major: *Research and Evaluation Methodology*

Dissertation: Data Mining Techniques to Estimate Propensity Scores for Categorical and Continuous Treatments

Dissertation Chair: W. L. Leite

**Anthony Coman**

Major: *English*

Dissertation: CinemaScope Aesthetics: A Mise-en-Scène Critical Approach

Dissertation Chair: M. C. Turim

**Morgan Anna Conway**

Major: *Psychology*

Dissertation: The Role of Gender Ideology and Essentialist Beliefs in Reducing Anti-Transgender Prejudice

Dissertation Chair: K. Ratliff

**Elise Taylor Costa**

Major: *Criminology, Law and Society*

Dissertation: From Genes to Jurors: A Randomized Experiment to Examine the Effects of Genomic Evidence on Sentencing Decisions for Black and White Defendants

Dissertation Chair: C. L. Gibson

**Heather K. Covington**

Major: *Sociology*

Dissertation: Food, Race, and Justice: A Qualitative Examination of the Cultural Roots of (In)Equality in Birmingham, Alabama's Urban Alternative Food Movement

Dissertation Chair: C. W. Peek IV

Dissertation Co-chair: B. A. Zsembik

**James Matthew Crandall**

Major: *Anthropology*

Dissertation: The Transformations of Empire: Negotiating Inka and Spanish Colonialism in an Upper Amazonian Community

Dissertation Chair: A. Oyuela-Caycedo

**Paul E. Crittenden**

Major: *Mechanical Engineering*

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

Dissertation Chair: S. Balachandar

**Sean M. Crosson**

Major: *Medical Sciences—Genetics*

Dissertation: Investigating the Role of Adiponectin in Taste Perception

Dissertation Chair: S. Zolotukhin

**Melissa Cruz-Acuña**

Major: *Biomedical Engineering*

Dissertation: Polyethylenimine-Coated Single-Magnetic Gene Carriers and Their Evaluation in Various Transfection Systems

Dissertation Chair: C. Rinaldi

Dissertation Co-chair: J. P. Dobson

### **Sreten Cvetojevic**

Major: *Forest Resources and Conservation*

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

Dissertation Chair: H. H. Hochmair

Dissertation Co-chair: B. A. Dewitt

### **Joao Marcelo Dalmazo Sanchez**

Major: *Agronomy*

Minor: *Animal Sciences*

Dissertation: Evaluation of Management Practices to Improve *Arachis* spp. Productivity and Nutritive Value in South Florida

Dissertation Chair: J. M. Vendramini

Dissertation Co-chair: L. E. Sollenberger

### **Yujun Deng**

Major: *Design, Construction and Planning*

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

Dissertation Chair: Z. Peng

### **Jennifer Christine Dennis Wall**

Major: *Nutritional Sciences*

Dissertation: Probiotics and Quality of Life in Individuals with Seasonal Allergies

Dissertation Chair: R. J. Henken

### **Victor Hazael Dueñas Fontes**

Major: *Mechanical Engineering*

Dissertation: Functional Electrical Stimulation-Induced Cycling using Repetitive Learning and Passivity-Based Control

Dissertation Chair: W. E. Dixon

### **Shaun M. Duke**

Major: *English*

Dissertation: *The Archipelago of Worlds*: Caribbean Literature and the Modalities of Liberative Spatiality

Dissertation Chair: L. R. Rosenberg

Dissertation Co-chair: P. E. Wegner

### **Shannon L. Eggers**

Major: *Nuclear Engineering Sciences*

Dissertation: Adapting Anomaly Detection Techniques for Online Intrusion Detection in Nuclear Facilities

Dissertation Chair: P. Enqvist

### **Daniel R. Evans**

Major: *Wildlife Ecology and Conservation*

Dissertation: The Path Most Traveled: Using Satellite Telemetry to Identify and Characterize Migration Pathways and Foraging Areas of Four Species of Marine Turtle in the North Atlantic and Wider Caribbean

Dissertation Chair: R. R. Carthy

### **Danielle E. Fagnani**

Major: *Chemistry*

Dissertation: Hydrogen Bond Directed Self-Assembly of Arenes

Dissertation Chair: R. K. Castellano

### **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

### **Farimah Farahmandi**

Major: *Computer Engineering*

Dissertation: Formal Verification of Hardware Security and Trust

Dissertation Chair: P. K. Mishra



### **Xiaoying Feng**

Major: *Educational Leadership*

Dissertation: Academic Achievement and Higher Education Enrollment: Effects of Time Spent Studying, Self-Expectation, School Mentoring, and Parental Involvement

Dissertation Chair: L. S. Behar-Horenstein

Dissertation Co-chair: D. Miller

### **Anastasiya Vladimirovna Ferrell**

Major: *Nursing Sciences*

Dissertation: Secondary Analysis of 2014-2015 E-Cigarette Trends among Floridian Minors

Dissertation Chair: J. H. Elder

Dissertation Co-chair: C. L. Cook

### **Charles Adrian Figg**

Major: *Chemistry*

Dissertation: Precise Polymer End Groups, Aqueous Polymerizations, and Macromolecular Nano-Aggregates

Dissertation Chair: B. S. Sumerlin

### **Shireen R. L. Flores**

Major: *Nutritional Sciences*

Minor: *Applied Physiology and Kinesiology*

Dissertation: Lack of Hepcidin in Rats Alters Iron Distribution and Blunts Iron Absorption during DSS-Induced Intestinal Inflammation

Dissertation Chair: J. F. Collins

### **Bruna Balen Forcelini**

Major: *Plant Pathology*

Dissertation: Characterization of Sensitivity to Quinone-outside Inhibitor Fungicides of Isolates of *Colletotrichum acutatum* from Strawberry Nurseries and Production Fields

Dissertation Chair: N. A. Peres Lauretti

### **Michael E. Fortunato**

Major: *Chemistry*

Dissertation: Developing Software to Assess the Viability of Molecular Mechanics Force Fields for the Prediction of Polymer Properties

Dissertation Chair: C. M. Colina

### **Daniel Zeno Frank**

Major: *Mechanical Engineering*

Dissertation: Investigating Culturally-Contextualized Making with the Navajo Nation

Dissertation Chair: C. D. Crane, III

### **Mohamed Ibrahim Aref Ibrahim Gadou**

Major: *Computer Engineering*

Dissertation: Performance Energy Tradeoffs for Iterative and Direct Sparse Matrix Solvers on Hybrid Multicore Architectures

Dissertation Chair: S. Ranka

### **Christopher David Gage**

Major: *English*

Dissertation: Man vs. Filth: Masculinities and Conflicts with the Unclean in Victorian Culture, 1842-1901

Dissertation Chair: P. K. Gilbert

### **Tahir Enes Gedik**

Major: *Sociology*

Dissertation: Political Trust in Turkey

Dissertation Chair: A. Ceobanu

### **Tuhin Ghosh**

Major: *Chemistry*

Dissertation: Syntheses and Properties of Molecular Manganese-oxo Clusters and Supramolecular Aggregates of Single-Molecule Magnets

Dissertation Chair: G. Christou

**Lauren Newton Glenn**

Major: *English*

Dissertation: Band of *Auteurs*: Creative Collaboration and Artistic Style in HBO's *Band of Brothers*

Dissertation Chair: R. B. Ray

**Katie M. Glodzik**

Major: *Interdisciplinary Ecology*

Dissertation: Impacts of Saltwater Intrusion and Hydrologic Change to Salt Marsh and Coastal Forest of Florida's Big Bend

Dissertation Chair: D. A. Kaplan

**Justin Lloyd Goodsell**

Major: *Chemistry*

Dissertation: Computational and Spectroscopic Insights into the Catalytic Mechanism of *Bacillus subtilis* Oxalate Decarboxylase

Dissertation Chair: A. Angerhofer

**Andrew C. Gray**

Major: *Electrical and Computer Engineering*

Dissertation: A Low-Cost Autonomous Submersible and Acoustic Tracking System

Dissertation Chair: A. A. Arroyo

**Jacob W. Greene**

Major: *English*

Dissertation: Mobilizing Digital Rhetorics: Emerging Modalities of Location-Based Writing

Dissertation Chair: S. I. Dobrin

**Ann Lee Grimstad**

Major: *History*

Dissertation: Zanzibar: The Nine-Hour Revolution

Dissertation Chair: L. S. White

**Fernanda Pohl Guimarães**

Major: *Medical Sciences—Immunology and Microbiology*

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

Dissertation Chair: D. Mitchell

**Naga Sandhya Guntaka**

Major: *Chemistry*

Dissertation: Molecular Basis of the Colibactin Biosynthetic Pathway: A Structural Biology Approach

Dissertation Chair: S. D. Bruner

**Zimu Guo**

Major: *Electrical and Computer Engineering*

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

Dissertation Chair: D. J. Forte

**Mandisa Roeleene Haarhoff**

Major: *English*

Dissertation: Black in the Apartheid Afterlife of Apartheid: Death and Blackness in Late- and Post-Apartheid Narratives

Dissertation Chair: A. O. Amoko

**Melissa Ann Hale**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Muscleblind-Like 1 Regulation of Alternative Splicing: The Impacts of Protein Domain Architecture and Trans-Acting Elements

Dissertation Chair: J. A. Berglund

**Alexander Arthur Haluska**

Major: *Environmental Engineering Sciences*

Dissertation: Performance Assessments of Bioremediation and Bioaugmentation of Chloroethene DNAPL Source Zones

Dissertation Chair: M. D. Annable

**HyunSuk Han**

Major: *Research and Evaluation Methodology*

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

Dissertation Chair: A. C. Manley

**Matthew T. Harrigan**

Major: *Political Science*

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

Dissertation Chair: L. C. Dodd

**Cedric D. Harville II**

Major: *Health and Human Performance*

Dissertation: Prevalence of Food Insecurity, Grocery Shopping Habits, and Dietary Choice among College Students

Dissertation Chair: D. C. James

**Garrett Austin Hecker**

Major: *Music*

Dissertation: Composer as Appropriator: Semiotic Analysis of Musical Works Based on Appropriated Materials

Dissertation Chair: J. P. Sain

**William C. Hedderson**

Major: *Health and Human Performance*

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

Dissertation Chair: P. A. Borsa

**William Parker Hinson**

Major: *Public Health*

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

Dissertation Chair: M. D. Moorhouse

**Jeremiah A. Hocutt**

Major: *Mathematics*

Dissertation: Twisted Duality in Operator Algebras

Dissertation Chair: P. L. Robinson

Dissertation Co-chair: S. A. McCullough

**David Clifton Holden Jr.**

Major: *Medical Sciences—Immunology and Microbiology*

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

Dissertation Chair: L. L. Moldawer

**Sharon Elizabeth Holte**

Major: *Zoology*

Dissertation: Understanding Carnivoran Ecomorphology through Deep Time, with a Case Study During the Cat-Gap of Florida

Dissertation Chair: D. W. Steadman

**Marcus J. Hooper**

Major: *Medical Sciences—Genetics*

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

Dissertation Chair: J. Ash

**Peter Ross Houlihan**

Major: *Zoology*

Dissertation: On the Natural History of Darwin's Orchids and Pollination Ecology by Long Tongued Hawkmoths

Dissertation Chair: T. C. Emmel

### **Ashley Hudson**

Major: *Political Science*

Dissertation: The Democratizing Role of a Few Defiant Catholic Churches in Mexico's 2000 Political Awakening

Dissertation Chair: L. E. Anderson

Dissertation Co-chair: K. D. Wald

### **JoCynda Louise Hudson**

Major: *Higher Education Administration*

Dissertation: Student Organizations and the First Amendment: Analysis of Nondiscrimination Policies

Dissertation Chair: R. C. Wood

### **Jack A. Hutchings**

Major: *Geology*

Dissertation: Molecular Biomarker Approaches to Determining Organic Matter Sources and Degradation States in High Latitude Permafrost-Affected Soils

Dissertation Chair: T. S. Bianchi

### **Chueh-Lung Hwang**

Major: *Health and Human Performance*

Dissertation: Vascular Effects of All-Extremity High-Intensity Interval Training versus Moderate-Intensity Continuous Training in Adults with Type 2 Diabetes

Dissertation Chair: D. D. Christou

### **Sungmin Hwang**

Major: *Microbiology and Cell Science*

Dissertation: Thiamine Biosynthesis and Regulation in Archaea

Dissertation Chair: J. A. Maupin

### **Lindsay Erin Iglesias**

Major: *Entomology and Nematology*

Dissertation: Development of Behavior-Based IPM Strategies for Management of *Drosophila suzukii* (Diptera: Drosophilidae) in Berry Crops in the Southeastern U.S.

Dissertation Chair: O. E. Liburd

### **France LaShay Jackson**

Major: *Human-Centered Computing*

Dissertation: Fashionable BCI: Applying a User-Centered Design Approach to Developing a Socially Acceptable Brain-Computer Interface Device for Women

Dissertation Chair: J. E. Gilbert

### **Stephani Ann Babcock Jahn**

Major: *Counseling and Counselor Education*

Dissertation: Doctoral Students' Advising Experiences and Mental Health

Dissertation Chair: M. K. DePue

Dissertation Co-chair: S. L. Smith

### **Kookhyun Jeong**

Major: *Materials Science and Engineering*

Dissertation: Innovative Coating of Vanadium Carbide on the F/M Cladding Tube Inner Surface for Mitigating the Fuel Cladding Chemical Interactions

Dissertation Chair: Y. Yang

### **Huanhuan Jiang**

Major: *Environmental Engineering Sciences*

Dissertation: Determination of Molecular Mechanisms of Organic Aerosols on PM Toxicity using Cell-Free Assays

Dissertation Chair: M. Jang

### **Yuan Jiang**

Major: *Food and Resource Economics*

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

Dissertation Chair: L. A. House

**Yifei Jin**

Major: *Mechanical Engineering*

Dissertation: Study of Nanoclay-Assisted Extrusion Fabrication System for 3D Printing

Dissertation Chair: Y. Huang

**Soowon Jo**

Major: *Curriculum and Instruction*

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

Dissertation Chair: D. Fu

**Keri Lynn Johnson**

Major: *Counseling and Counselor Education*

Dissertation: Exploring Vicarious Trauma and Vicarious Resilience in Counselors-In-Training.

Dissertation Chair: M. K. DePue

**Jessica Nicole Jones**

Major: *Human-Centered Computing*

Dissertation: SightWord Pal: An Intelligent Sight Word Tutor for African-American Second Grade Students

Dissertation Chair: J. E. Gilbert

**Lennie M. Jones**

Major: *Linguistics*

Dissertation: Discourse and Diversity in University Classrooms

Dissertation Chair: D. Boxer

**Paul Julian II**

Major: *Soil and Water Sciences*

Dissertation: Biogeochemical Controls of Water Column Productivity and Nutrient Cycling in Semitropical Wetlands: A Case Study from the Everglades Stormwater Treatment Areas

Dissertation Chair: A. L. Wright

**Joanna Karavolias**

Major: *Food and Resource Economics*

Dissertation: A Full Market Analysis of the Implications of Raising Broilers Antibiotics

Dissertation Chair: L. A. House

**Fergus Joseph Desmond Keatinge**

Major: *Geography*

Minor: *Agricultural and Biological Engineering*

Dissertation: Weather, Climate, and Crops; Forecasting and Commodity Simulation in the Southeast United States

Dissertation Chair: P. R. Waylen

**Swati Khare**

Major: *Biomedical Engineering*

Dissertation: Characterization of Three Biological Models for Spinocerebellar ataxia 13

Dissertation Chair: K. Allen

Dissertation Co-chair: M. F. Waters

**Matin Kheirkhahan**

Major: *Computer Science*

Dissertation: Real-Time Data Monitoring and Machine Learning Methods for Activity Recognition using Wearable Devices

Dissertation Chair: S. Ranka

Dissertation Co-chair: T. M. Manini

**Jihoon Kim**

Major: *Criminology, Law and Society*

Dissertation: Rethinking Delinquent Friendships within a Life-Course Perspective: Developmental Pathways, Predictors, School Effects, and Overlap with Delinquency

Dissertation Chair: M. D. Krohn

Dissertation Co-chair: C. L. Gibson

**Mi-Jung Kim**

Major: *Medical Sciences—Molecular Cell Biology*

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

Dissertation Chair: S. Someya

**Derrick D. King**

Major: *English*

Dissertation: Forms of Crisis: Realism and Science Fiction in the Twenty-First Century

Dissertation Chair: P. E. Wegner

**Tomohiro Kubo**

Major: *Chemistry*

Dissertation: Polymers with Well-Defined Functionalities and Architectures

Dissertation Chair: B. S. Sumerlin

**Alan Kuhnle**

Major: *Computer Science*

Dissertation: Scalable Algorithms for Vulnerability Assessment of Large-Scale Networked Systems

Dissertation Chair: M. T. Thai

**Tiffany Chenese Lorraine Lang**

Major: *Design, Construction and Planning*

Dissertation: Chrome Model for Historic Color Preservation: Authentic Layers of Culture, Color, Heritage

Dissertation Chair: M. B. Portillo

**Amy Kathleen Langston**

Major: *Environmental Engineering Sciences*

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

Dissertation Chair: D. A. Kaplan

**Lindsay E. Leban**

Major: *Criminology, Law and Society*

Dissertation: An Investigation of Gender Differences in the Impact of Adverse Childhood Events on Delinquency and Substance Use in Adolescence

Dissertation Chair: C. L. Gibson

**Changyeon Lee**

Major: *Design, Construction and Planning*

Dissertation: Urban Compact Levels, Travel Behaviors, and Outdoor Air Quality in Three Perspectives: Emissions, Concentrations, and Exposures

Dissertation Chair: R. L. Steiner

**Emi Ayn Lenes Cortez**

Major: *Counseling and Counselor Education*

Dissertation: Color-Conscious Multicultural Mindfulness (CCMM): An Investigation of Counseling Students and Pre-Licensed Counselors

Dissertation Chair: J. M. Swank

**Sin-Yen Leo**

Major: *Chemical Engineering*

Dissertation: Programmable Photonic Crystals Enabled by Smart Shape Memory Polymers

Dissertation Chair: P. Jiang

**Min Li**

Major: *Sociology*

Minor: *Statistics*

Dissertation: Determinants of Cognitive Health among the Middle-Aged and Older Chinese

Dissertation Chair: B. A. Zsembik

**Tao Li**

Major: *Chemical Engineering*

Dissertation: Adsorption and Reaction Characteristics of Ruthenium Dioxide (110) and Iridium Dioxide (110)

Dissertation Chair: J. F. Weaver

**Weixuan Li**

Major: *Mechanical Engineering*

Dissertation: A Concurrent Atomistic-Continuum Study of Phonon Transport and Dislocation Dynamics on Mesoscale Materials

Dissertation Chair: Y. Chen

**Xiang Li**

Major: *Computer Engineering*

Dissertation: Mining in Online Social Networks: Optimization Models and Adaptive Solutions

Dissertation Chair: M. T. Thai

**Xianqi Li**

Major: *Mathematics*

Dissertation: Fast First-Order Optimization Methods with Applications to Inverse Problems

Dissertation Chair: Y. Chen

**Xiaolong Li**

Major: *Computer Science*

Dissertation: Investigating Real-time Reference Resolution in Situated Dialogue for Complex Problem Solving

Dissertation Chair: K. Boyer

**Yixuan Li**

Major: *Business Administration—Management*

Dissertation: Leveraging Human Capital Flow for Organizational Innovation

Dissertation Chair: M. Wang

**You Li**

Major: *Forest Resources and Conservation*

Dissertation: Relationships and Biology of Ambrosia Beetles and Fungi and the Development of Pre-Invasion Assessment of Potential Pests

Dissertation Chair: J. Hulcr

**Zhiliang Li**

Major: *Chemistry*

Dissertation: Photophysics, Phosphate Sensing and Self-Assembling of Cationic Poly(phenylene ethynylene) Conjugated Polyelectrolytes and Porphyrin with Branched Ammonium Side Groups

Dissertation Chair: K. S. Schanze

**Hua Liu**

Major: *Environmental Engineering Sciences*

Dissertation: PM Separation and Re-Suspension Test of Hydrodynamic Unit Operations Modeling, Scaling and Regulations in Urban Drainage System

Dissertation Chair: J. J. Sansalone

**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

**Jurate Lukosaityte**

Major: *Nutritional Sciences*

Dissertation: Nutritional Status of Pediatric Patients with Chronic Disease: Relationship of Nutrients and Developing Phenotype

Dissertation Chair: P. L. Borum

### **Sunni S. Lutton**

Major: *Counseling and Counselor Education*

Dissertation: The Intersection of Trauma, Counseling Relationship, and the Medical Model: Lived Experiences of Counselors

Dissertation Chair: J. M. Swank

### **Bo Ma**

Major: *Computer Engineering*

Dissertation: Feature-Based Methods for Visualizations of Volumetric Data and Ensemble Simulations

Dissertation Chair: A. Entezari

### **Peisen Ma**

Major: *Physics*

Dissertation: Search for the Electroweak Production of Supersymmetric Particles in Proton-Proton Collisions with Tri-Lepton Final States using the Full Set of 2016 Data from the CMS Detector at the Large Hadron Collider

Dissertation Chair: J. M. Yelton

Dissertation Co-chair: D. E. Acosta

### **Zhengxin Ma**

Major: *Animal Sciences*

Dissertation: Mode of Action and Application of Chitosan-Based Nano/Microscale Alternative Antimicrobial Agent

Dissertation Chair: K. C. Jeong

### **Oyunbileg Magvanjav**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Genetic and Non-Genetic Determinants of Uncontrolled Blood Pressure on Combination Antihypertensive Therapy

Dissertation Chair: J. A. Johnson

### **Daniel A. Mancero Castillo**

Major: *Horticultural Sciences*

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

Dissertation Chair: J. X. Chaparro

### **Goran Marjanovic**

Major: *Mechanical Engineering*

Dissertation: Direct Numerical Simulations of Single and Multiphase Turbulent Plumes in the Forced, Pure, and Lazy Regimes at Intermediate Grashof Numbers

Dissertation Chair: S. Balachandar

### **Samantha Lauren Marshall**

Major: *Mechanical Engineering*

Dissertation: Microgels for *in vitro* Three-Dimensional Cancer Models

Dissertation Chair: W. G. Sawyer

### **Chesney Ann McOmber**

Major: *Political Science*

Dissertation: The Feminization of Rural Space: Exploring Gender, Power, and Demographic Change in Africa

Dissertation Chair: L. E. Anderson

Dissertation Co-chair: M. H. Bernhard

### **Hualin Mei**

Major: *Physics*

Dissertation: Higgs Boson Mass Measurement using  $H$  to  $ZZ$  to  $4l$  Decay Mode with the CMS Detector at the LHC

Dissertation Chair: A. Korytov

Dissertation Co-chair: G. Mitselmakher

### **Hunter Reid Merrill**

Major: *Agricultural and Biological Engineering*

Dissertation: Spatio-Temporal Statistical Methods for Biological and Environmental Modeling with High Dimensional Data Integration

Dissertation Chair: N. A. Bliznyuk



**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

**Ariana Negar Mohammadi**

Major: *Linguistics*

Dissertation: Discourse Markers in Colloquial and Formal Persian

Dissertation Chair: D. Boxer

Dissertation Co-chair: G. A. Broadwell

**Iwan Eduard Molgo**

Major: *Botany*

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

Dissertation Chair: P. S. Soltis

**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.

**Mahdi Moqri**

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

Dissertation: Three Essays on Social Networks and Information Systems

Dissertation Chair: S. Bandyopadhyay

**Francesc Morales**

Major: *Romance Languages—Spanish*

Dissertation: *Translatio imperii*: Arqueología y nacionalismo en España (1860-1940)

Dissertation Chair: L. Álvarez-Castro

**Aaron B. Morton**

Major: *Health and Human Performance*

Dissertation: The Exercise-Induced Increase in SOD2 is Required for the Exercise-Induced Protection against VIDD

Dissertation Chair: S. K. Powers

**Lindsay J. Mullenix**

Major: *Materials Science and Engineering*

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

Dissertation Chair: G. E. Fuchs

**Anna Kapambwe Mwaba**

Major: *Political Science*

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

Dissertation Chair: B. J. Moraski

**Vignesh Nandakumar**

Major: *Materials Science and Engineering*

Dissertation: Physicochemical Aspects of Bacterial Adhesion on Surfaces and Strategies to Remove Adhered Bacteria from Surfaces

Dissertation Chair: B. M. Moudgil

**Joanna Winn Neville**

Major: *Sociology*

Dissertation: Women, Motherhood, and Reproduction: Developing a Procreative Framework

Dissertation Chair: W. Marsiglio

**Yongliang Ni**

Major: *Mechanical Engineering*

Dissertation: Investigation of the Shape Memory Mechanisms of a Series of Polymer Macroporous Photonic Crystals

Dissertation Chair: C. Taylor

**Adam Steven Nickels**

Major: *Aerospace Engineering*

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

Dissertation Chair: L. S. Ukeiley

**Supriya Nirkhiwale**

Major: *Computer Engineering*

Dissertation: A Sampling Algebra for Scalable Approximate Query Processing

Dissertation Chair: A. V. Dobra

**Michelle Marie Nolan**

Major: *Chemistry*

Dissertation: Design, Synthesis, and *in situ* Characterization of Precursors for the Chemical Vapor Deposition of Tungsten Carbonitride

Dissertation Chair: L. A. McElwee-White

**Steven Tyler Oberheim**

Major: *Counseling and Counselor Education*

Dissertation: Content Development and Initial Psychometric Analysis of the Problematic Hypersexuality Scale (PHS)

Dissertation Chair: M. K. DePue

Dissertation Co-chair: A. C. Manley

**David Nonso Ojika**

Major: *Electrical and Computer Engineering*

Dissertation: Flexible Architecture for Programmable Accelerators at Datacenter-Scale

Dissertation Chair: A. M. Gordon-Ross

Dissertation Co-chair: D. E. Acosta

**Ruan Oliveira**

Major: *Medical Sciences—Genetics*

Dissertation: Novel Genome Engineering Strategies to Model Repeat Expansion Diseases

Dissertation Chair: M. S. Swanson

**Vicki Leanne Osborne**

Major: *Epidemiology*

Dissertation: Sex Differences in Risk Factors for Prescription Opioid Non-Medical Use among Youth

Dissertation Chair: L. B. Cottler

**Jennifer Adler Owen**

Major: *Interdisciplinary Ecology*

Dissertation: Visual Ecology: Communicating Springs Science through Photography and Environmental Education

Dissertation Chair: T. K. Frazer

**Nicholas Glenn Paciaroni**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Ring Distortion of Yohimbine Leads to Diverse Biological Discoveries

Dissertation Chair: R. W. Huigens, III

**Andrew S. Padgett**

Major: *Physics*

Dissertation: Low Temperature Properties of Three Novel Quantum Solids

Dissertation Chair: Y. Takano

**Sarah E. Page**

Major: *Anthropology*

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

Dissertation Chair: F. V. Harrison

Dissertation Co-chair: M. M. Stoilkova

**Maohua Pan**

Major: *Environmental Engineering Sciences*

Dissertation: Highly Efficient Virus Aerosol Collection System and Its Application in Investigating Distribution of Infectious Viruses

Dissertation Chair: C. Wu

**Juan Felipe Paniagua-Arroyave**

Major: *Geology*

Minor: *Coastal and Oceanographic Engineering*

Dissertation: *Physical Processes Associated to the Evolution of Cape-Related Shoals*

Dissertation Chair: P. N. Adams

**Jane Jeongin Park**

Major: *Business Administration—Marketing*

Dissertation: *Not My Type: Why Affective Decision Makers Are Reluctant to Make Financial Decisions*

Dissertation Chair: A. Sela

**Sungsik Park**

Major: *Business Administration—Marketing*

Dissertation: *The Dark Side of User-Generated Information*

Dissertation Chair: J. Xie

**Amrutha Pattamatta**

Major: *Medical Sciences—Neuroscience*

Dissertation: *Molecular Mechanisms of Disease in C9orf72 Amyotrophic Lateral Sclerosis/Frontotemporal Dementia (ALS/FTD)*

Dissertation Chair: L. P. Ranum

**Brian C. Peach**

Major: *Nursing Sciences*

Dissertation: *Urosepsis in Older Adults: Incidence and Risk Factors Associated with Mortality*

Dissertation Chair: J. Cimiotti

**Chang Peng**

Major: *Mechanical Engineering*

Dissertation: *Physical Mechanisms of Direct-Contact Ultrasonic Cloth Drying Process*

Dissertation Chair: S. Moghaddam

**Nathan Martin Petro**

Major: *Psychology*

Dissertation: *Neurophysiological Correlates of Motivated Selection: Evidence From Concurrent EEG-fMRI Recordings*

Dissertation Chair: A. Keil

**Lauren Pilcher**

Major: *English*

Dissertation: *The Useful South: Nontheatrical Visions of Gender, Space, and Place in the Postwar Era*

Dissertation Chair: B. C. Mennel

**Paula Soares Pinheiro**

Major: *Interdisciplinary Ecology*

Dissertation: *Co-Management of Natural Resources in the Lower Juruá Extractive Reserve, Central-West Brazilian Amazon*

Dissertation Chair: S. G. Perz

**Catia Sofia Pinho Da Silva**

Major: *Electrical and Computer Engineering*

Dissertation: *A Framework for Spatiotemporal Quantification of Neural Functional Connectivity*

Dissertation Chair: J. C. Principe

**Cristina Popescu**

Major: *Health Services Research*

Dissertation: *Factors Associated with Child and Maternal Mortality in the Middle East and North Africa (MENA) Region: A Panel Study*

Dissertation Chair: R. P. Duncan

**Sherlie Eileen Portugal Atencio**

Major: *Electrical and Computer Engineering*

Dissertation: *Design and Improvement of Dielectric Barrier Discharge (DBD) Reactors for Ozone Generation in Atmospheric Air*

Dissertation Chair: J. Lin

Dissertation Co-chair: S. Roy

**Alena Prikhidko**

Major: *Counseling and Counselor Education*

Dissertation: Emotion Regulation among Mothers of Toddlers in the Context of Intensive Mothering

Dissertation Chair: J. M. Swank

**Abhijit Rajan**

Major: *Biomedical Engineering*

Dissertation: Neural Mechanisms of Attentional Control Revealed through Multivariate Pattern Analysis and Functional Connectivity Techniques

Dissertation Chair: M. Ding

**Barath Ramesh**

Major: *Electrical and Computer Engineering*

Dissertation: Frame- and Line-Oriented Optimizations in Image Processing On Multicore Embedded Processors

Dissertation Chair: A. D. George

**Cristina Ramos Solis**

Major: *Sociology*

Dissertation: Migrant Responses to the 2008 Economic Crisis: A Qualitative Study of Colombians and Ecuadorians in Madrid and London

Dissertation Chair: B. A. Zsembik

**Maria Fernanda Ratti Torres**

Major: *Plant Pathology*

Dissertation: Innovative Tools for Studying Plant-Related Oomycete Populations of Potential and Current Threat in Agriculture in Ecuador

Dissertation Chair: E. M. Goss

**Abhigyan Ravula**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Pharmacokinetics and Pharmacodynamics of Tetrahydrocannabinol in Rats

Dissertation Chair: H. C. Derendorf

Dissertation Co-chair: A. W. Bruijnzeel

**Haleigh A. Ray**

Major: *Entomology and Nematology*

Dissertation: Floral Fragrance, Pollination, and Seedling Germination of Two Native, Epiphytic Orchids in South Florida

Dissertation Chair: J. L. Gillett-Kaufman

**Sruti Rayaprolu**

Major: *Medical Sciences—Neuroscience*

Dissertation: Using Mouse Models to Understand Pleiotropic Neurodegenerative Disorders

Dissertation Chair: J. M. Lewis

**Antonietta Restuccia**

Major: *Biomedical Engineering*

Dissertation: Glycosylated Peptide Nanofibers as Tools to Elucidate Multivalent Carbohydrate Structure-Function Relationships

Dissertation Chair: G. Hudalla

**Nathaniel E. Richey**

Major: *Chemistry*

Dissertation: Design, Synthesis, and Deposition from Single-Source Precursors

Dissertation Chair: L. A. McElwee-White

**Anna Katherine Rodgers**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Investigating Macrophage Contribution to Axolotl Skin Regeneration

Dissertation Chair: E. W. Scott

**Regina Rodriguez**

Major: *Environmental Engineering Sciences*

Dissertation: Activated Carbon Surface Chemistry Impact on Mercury Adsorption

Dissertation Chair: D. W. Mazyck

**Jhonathan Rosales Franco**

Major: *Nuclear Engineering Sciences*

Dissertation: Characterization of Direct Additive Manufactured  $U_3Si_2$  Surrogates to Predict  $U_3Si_2$  Microstructures

Dissertation Chair: J. S. Tulenko

**Andres Rubiano-Acosta**

Major: *Mechanical Engineering*

Minor: *Biomedical Engineering*

Dissertation: Experimental Methods for Mechanical Characterization of Soft Matter and Applications in Pancreatic Cancer

Dissertation Chair: C. S. Simmons

**Elena C. Rubino**

Major: *Interdisciplinary Ecology*

Dissertation: Incentivizing Rhinoceros Conservation among Private Landowners in South Africa

Dissertation Chair: E. F. Pienaar

**Clayton Pio Santiago**

Major: *Medical Sciences—Genetics*

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

Dissertation Chair: J. Ash

**Chase C. Saucier**

Major: *Mathematics*

Dissertation: Strict Contactomorphisms of Hyperquadrics

Dissertation Chair: P. L. Robinson

**Nathan R. Sauder**

Major: *Mechanical Engineering*

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

Dissertation Chair: B. J. Fregly

**Timothy P. Schlittenhardt**

Major: *Physics*

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

Dissertation Chair: S. P. Hershfield

**Sarah Kiley Schoff**

Major: *Anthropology*

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

Dissertation Chair: M. W. Warren

**Stephanie E. Schroeder**

Major: *Curriculum and Instruction*

Dissertation: "Democracy is Well Here": Transforming Teacher Education for Democracy

Dissertation Chair: E. Bondy

**Jose Sebastian Sclofsky**

Major: *Political Science*

Dissertation: Experiencing Policing in São Paulo and Los Angeles: Constructing Racial Identities, Space, and Second-Class Citizenship

Dissertation Chair: P. J. Williams

**Robert W. Seaback**

Major: *Music*

Dissertation: Anacoustic Modes of Sound Construction: Encoded (IM)Materiality in Synthesis

Dissertation Chair: P. C. Koonce

**Paul Charly Serra**

Major: *Aerospace Engineering*

Dissertation: Integrated, Low-Power Sub-Nanosecond Timing Systems For Space Navigation And Communication

Dissertation Chair: J. Conklin

**Michael J. Sexton**

Major: *Materials Science and Engineering*

Dissertation: Organometallic Halide Perovskite Solar Cells and a Search for New Perovskites

Dissertation Chair: J. Xue

**Sean J. Sharp**

Major: *Environmental Engineering Sciences*

Dissertation: Disturbance and Recovery of Southeastern Salt Marshes: Drivers of Change and Ecosystem Service Dynamics

Dissertation Chair: C. Angelini

**Yong Shen**

Major: *Genetics and Genomics*

Dissertation: Reactivation of Fetal Hemoglobin by Artificial Transcription Factors: Exploring a Novel Therapy for Hemoglobinopathies

Dissertation Chair: J. Bungert

**Wanlu Shi**

Major: *Sociology*

Minor: *Statistics*

Dissertation: Wisdom and Creativity: Two Routes to Subjective Well-Being in Later Life

Dissertation Chair: M. Ardel

**Richard Louis Shumate**

Major: *Mass Communication*

Dissertation: Elite Voices and Irritated Conservatives: Pathways Leading to the Perception of Liberal Media Bias Arising from Elite Media Coverage of the Emergence of Movement Conservatism (1960 to 1964)

Dissertation Chair: H. Chen

Dissertation Co-chair: D. M. Treise

**Harmanpreet S. Sidhu**

Major: *Soil and Water Sciences*

Dissertation: Fate and Risk Assessment of Biosolids-Borne Ciprofloxacin (CIP) and Azithromycin (AZ)

Dissertation Chair: G. A. O'Connor

**Zaynab Sidi Mohamed**

Major: *Microbiology and Cell Science*

Dissertation: Gut Bacteria Modulate Dendritic Cell Priming of Diabetogenic T Cell Effector Functions in a Mouse Model of Autoimmune Diabetes

Dissertation Chair: J. Larkin, III

**Vanessa Simões Dias de Castro**

Major: *Entomology and Nematology*

Dissertation: Condition-Dependent Expression of Sexual Traits Based on Enzymatic Antioxidants in the Caribbean Fruit Fly, *Anastrepha suspensa*

Dissertation Chair: D. A. Hahn

**Isaac J. Sledge**

Major: *Electrical and Computer Engineering*

Dissertation: The Exploration and Exploitation of Reinforcement-Learned Behaviors using Information-Theoretic Criteria

Dissertation Chair: J. C. Principe

**Scott R. Smolenski**

Major: *Music*

Dissertation: Marian Devotional Music and the Southern Mineiran Catholic Identity

Dissertation Chair: W. A. Tremura

Dissertation Co-chair: L. N. Crook

**Luciano S. Soares**

Major: *Zoology*

Dissertation: Sea Turtle Hybridization: A Genetic, Ecological, and Behavioral Analysis

Dissertation Chair: K. A. Bjorndal

Dissertation Co-chair: M. L. Wayne

**Avni Solanki**

Major: *Environmental Engineering Sciences*

Dissertation: Investigation of Pharmaceutical Removal in Source Separated Urine using Biochar

Dissertation Chair: T. H. Boyer

**Zhuoyuan Song**

Major: *Mechanical Engineering*

Dissertation: Cooperative Control and Navigation of Autonomous Vehicles in Harsh Environments

Dissertation Chair: K. Mohseni

**Pallavi Sood**

Major: *Rehabilitation Science*

Dissertation: Developing Tailored Functional Status Measures across Continuum of Care

Dissertation Chair: S. Romero

**Lauren Alexandra Sosa**

Major: *Design, Construction and Planning*

Dissertation: Landscape Architecture, International Development, and Environmental Ethics

Dissertation Chair: K. E. Larsen

**Saman Souri**

Major: *Agricultural and Biological Engineering*

Dissertation: Possibility of Root Heat Treatment, Modification and Performance of a Hot Water Injection System to Treat HLB in Citrus

Dissertation Chair: J. K. Schueller

**Chase M. Stamey**

Major: *Chemical Engineering*

Dissertation: Development of Dynamic Smart Windows via Micro and Nano Materials

Dissertation Chair: P. Jiang

**Bethany A. Stennett**

Major: *Psychology*

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

Dissertation Chair: L. Knackstedt

**Cameron S. Stewart**

Major: *Mechanical Engineering*

Dissertation: Soft Sphere Simulations of a Planar Multiphase Shockwave Passing through a Bed of Particles

Dissertation Chair: S. Balachandar

**Michala Kirsten Stock**

Major: *Anthropology*

Dissertation: Growth and Development of Sexual Dimorphism in the Primate Skull

Dissertation Chair: V. B. DeLeon

**Yu Su**

Major: *Research and Evaluation Methodology*

Dissertation: The Performance of Multilevel Growth Mixture Models with Between-group Mixture (MGMM-B) for Enumerating Between-group Latent Classes

Dissertation Chair: W. L. Leite

**Chutipong Suwannajak**

Major: *Astronomy*

Dissertation: Stellar Populations in the Dynamically-Active M81 Group of Galaxies

Dissertation Chair: A. Sarajedini

**Lauren C. Tabor**

Major: *Rehabilitation Science*

Dissertation: Airway Sensorimotor Function in Individuals with Amyotrophic Lateral Sclerosis

Dissertation Chair: E. K. Plowman

**Denise Tan**

Major: *Entomology and Nematology*

Dissertation: The Use of Multiple Data Types for Elucidating Drivers of Speciation in the Butterfly Genus *Hermeuptychia* (Nymphalidae: Satyrinae: Euptychiina)

Dissertation Chair: K. R. Willmott

**Matthew J. Terza**

Major: *Health and Human Performance*

Dissertation: Changing the Way We Change the Way We Walk: Adaptation and Transfer of Complex Locomotor Tasks

Dissertation Chair: C. J. Hass

**Tolga Tezcan**

Major: *Sociology*

Dissertation: Who Returns, Who Stays, Who Are In-Between? Determinants of Return Migration Intention and Circular Migration: The Case of Turkish Immigrants in Germany

Dissertation Chair: A. Ceobanu

**John Erik Timmons**

Major: *Anthropology*

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

Dissertation Chair: R. B. Kernaghan

**Vincent J. Tocco Jr.**

Major: *Chemical Engineering*

Dissertation: The Mechanism of Nuclear Shaping

Dissertation Chair: T. Lele

Dissertation Co-chair: R. B. Dickinson

**Manh Duc Tran**

Major: *Electrical and Computer Engineering*

Dissertation: A Study of Lightning Properties using High-Speed Video and Energetic Radiation Observations Synchronized with Electric and Magnetic Field Measurements

Dissertation Chair: V. A. Rakov

Dissertation Co-chair: M. A. Uman

**Mary Scarlett Tudor**

Major: *Zoology*

Dissertation: Impacts of Social Environment and Contaminant Exposure on Sexually Selected Traits in Two Fish Species

Dissertation Chair: C. M. St Mary

Dissertation Co-chair: C. W. Miller

**Juan Manuel Uruña Vargas**

Major: *Mechanical Engineering*

Dissertation: The Effects of Temperature & Pressure on Hydrogel Tribology

Dissertation Chair: W. G. Sawyer

**Celeste R. Vallejo**

Major: *Mathematics*

Dissertation: A Novel Analytic Technique for Stochastic Models with Application to Epidemiology

Dissertation Chair: J. E. Keesling

**Ivana Amaris Vaughn**

Major: *Health Services Research*

Dissertation: Examining Longitudinal Healthcare Utilization and Outcomes in Pre-Frail Older Adults

Dissertation Chair: N. M. Marlow

**Antia Evette Veal**

Major: *Microbiology and Cell Science*

Dissertation: Suppressor of Cytokine Signaling-1 Ability to Modulate Macrophage-Activated Inflammatory Responses in an Induced Model of Psoriasis

Dissertation Chair: J. Larkin, III



**Maria Vrachioli**

Major: *Food and Resource Economics*

Dissertation: Agricultural Water Use Efficiency and Its Contribution to Total Factor Productivity

Dissertation Chair: S. E. Stefanou

**Jiahui Wang**

Major: *Curriculum and Instruction*

Dissertation: Examining Influence of Instructor Presence in Instructional Videos: An Individual Differences Perspective

Dissertation Chair: P. Antonenko

**Pei-Li Wang**

Major: *Statistics*

Dissertation: Analysis of High Dimensional Data with Network Structure

Dissertation Chair: G. Michailidis

**Xiaoyu Wang**

Major: *Nutritional Sciences*

Dissertation: Functional Studies of Intestinal Dmt1 during Iron Overload and Iron Deficiency

Dissertation Chair: J. F. Collins

**Xirui Wang**

Major: *Chemistry*

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

Dissertation Chair: Y. C. Cao

**Kevin Lawrence Ward**

Major: *Chemical Engineering*

Dissertation: Faraday Instability in Mechanically and Electrostatically Forced Systems

Dissertation Chair: R. Narayanan

**Anna Jean Warner**

Major: *Agricultural Education and Communication*

Dissertation: The Influence of Natural Agricultural Laboratory Settings on Stress and Attention Levels of High School Students

Dissertation Chair: B. E. Myers

**Donald Charles Watson Jr.**

Major: *Civil Engineering*

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

Dissertation Chair: S. S. Washburn

**Benjamin E. Watts**

Major: *Civil Engineering*

Dissertation: Applications of High Performance Computing and Machine Learning to Predict Behavior of Portland Cement-Based Materials

Dissertation Chair: C. C. Ferraro

Dissertation Co-chair: F. J. Masters

**Sheldon George Bruno Waugh**

Major: *Epidemiology*

Dissertation: Investigating Spatial Dynamics of Zoonoses between Animal and Human Populations: A One-Health Perspective

Dissertation Chair: R. L. Cook

**Andrew J. Welton**

Major: *History*

Dissertation: The Spear in Early Anglo-Saxon England: A Social-Technological History

Dissertation Chair: B. Effros

**Jason Brandon Wenzel**

Major: *Anthropology*

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

Dissertation Chair: J. M. Davidson

**Erin B. White**

Major: *Environmental Engineering Sciences*

Dissertation: Contaminant Fluxes through Heterogeneous Transport Pathways in Fractured Rock and Karst

Dissertation Chair: M. D. Annable

**Kate A. White**

Major: *Medical Sciences*

Dissertation: Olfactory Cortical Control Defines Striatal Sensory Representations

Dissertation Chair: D. W. Wesson

**Udeni Dharshika Wijesooriya**

Major: *Mathematics*

Dissertation: Finite Rank Isopairs

Dissertation Chair: S. A. McCullough

**Bradley J. Wilkes**

Major: *Psychology*

Dissertation: The Neural Circuitry of Restricted Repetitive Behavior

Dissertation Chair: M. H. Lewis

**Christopher Mark Wilson**

Major: *Electrical and Computer Engineering*

Dissertation: Modeling and Mitigation for Hybrid Space Computers

Dissertation Chair: A. D. George

**Matthew L. Wilson**

Major: *Curriculum and Instruction*

Minor: *Research and Evaluation Methodology*

Dissertation: The Relationship between Teacher Education Courses and the Technology Integration Attitudes, Beliefs, and Knowledge of Preservice Teachers: A Systematic Review and Meta-Analysis Series

Dissertation Chair: A. D. Ritzhaupt

**Keasha Renee Worthen**

Major: *English*

Dissertation: A Storm Called America: Hurricane Katrina as a Discursive Figure and the Rhetoric of Trauma

Dissertation Chair: S. E. Hegeman

**Na Wu**

Major: *Agricultural and Biological Engineering*

Dissertation: Techno-Economic Analysis of Biofuels Production

Dissertation Chair: P. C. Pullammanappallil

Dissertation Co-chair: S. A. Svoronos

**Chi Xu**

Major: *Materials Science and Engineering*

Dissertation: Developing Microstructure-Property Correlations in The Advanced Austenitic Stainless Steels as Candidate Materials for the Next-Gen Nuclear Reactors by using High-Energy X-ray and TEM/APT Techniques

Dissertation Chair: Y. Yang

Dissertation Co-chair: M. Li

**Lei Xu**

Major: *Medical Sciences—Genetics*

Dissertation: The Role of AMPK Signaling in the Retina

Dissertation Chair: J. Ash

**Chengliang Yang**

Major: *Computer Science*

Dissertation: Interpretable Machine Learning with Applications in Health Care

Dissertation Chair: S. Ranka

**Jongmin Yang**

Major: *Political Science*

Dissertation: Governing the South Korean Video Game Industry

Dissertation Chair: A. A. Hozic

**Kai Yang**

Major: *Electrical and Computer Engineering*

Dissertation: Memory-Centric Reconfigurable Accelerators for Energy-Efficiency and Security

Dissertation Chair: S. Bhunia

**Kun Yang**

Major: *Electrical and Computer Engineering*

Dissertation: RFID-Based Solutions for Protecting Supply Chain

Dissertation Chair: M. M. Tehranipoor

**Shunchang Yang**

Major: *Agricultural and Biological Engineering*

Minor: *Environmental Engineering Sciences*

Dissertation: Treatment of Dairy Manure for Energy Production and Nutrient Recovery

Dissertation Chair: P. C. Pullammanappallil

**Marcos Gonzalo Zenobi**

Major: *Animal Sciences*

Dissertation: Dietary Choline: A Story beyond Fatty Liver

Dissertation Chair: C. R. Staples

**Difan Zhang**

Major: *Materials Science and Engineering*

Dissertation: Application of Atomistic Scale Simulations to Porous Nanostructures, Surfaces, and Interfaces

Dissertation Chair: S. B. Sinnott

**Fengchao Zhang**

Major: *Electrical and Computer Engineering*

Dissertation: Low-Overhead Integrity Verification for Electronics and Beyond

Dissertation Chair: S. Bhunia

**Jun Zhang**

Major: *Design, Construction and Planning*

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

Dissertation Chair: R. R. Issa

**Yiming Zhang**

Major: *Mechanical Engineering*

Dissertation: Using Multiple Predictions and Multiple Sources of Data for Design Space Exploration

Dissertation Chair: R. T. Haftka

Dissertation Co-chair: N. H. Kim

**Yingxiu Zhang**

Major: *Agricultural and Biological Engineering*

Dissertation: Cultivation, Growth Optimization and Modeling of a Saline *Cyanothece* Species BG0011 for Production of Biofuels and Bioproducts

Dissertation Chair: P. C. Pullammanappallil

Dissertation Co-chair: S. A. Svoronos

**Quan Zheng**

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

Dissertation: Strategic Interaction in Retailing Driven by Consumer Behavior and Valuation Uncertainty

Dissertation Chair: X. Pan

**Yuan Zhou**

Major: *Computer Science*

Dissertation: Hyperspectral Unmixing with Endmember Uncertainty, Variability and Multiresolution Fusion

Dissertation Chair: A. Rangarajan

Dissertation Co-chair: P. D. Gader

**Yanmin Zhu**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: *Metabolic Effects of Atypical Antipsychotic Use during Pregnancy*

Dissertation Chair: A. G. Winterstein

**Yiqing Zhu**

Major: *Linguistics*

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

Dissertation Chair: R. Wayland

Dissertation Co-chair: J. R. Valdes Kroff

**Ruizhi Zou**

Major: *Coastal and Oceanographic Engineering*

Dissertation: *Modeling the Attenuation of Surge, Current, and Wave by Vegetation in Coastal Waters*

Dissertation Chair: Y. P. Sheng

**Ran Zuo**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: *Developing Biocatalytic Processes for the Synthesis of Nitro Compounds*

Dissertation Chair: Y. Ding



# DOCTOR OF EDUCATION

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## **Oluwunmi Adekola Ariyo**

Major: *Higher Education Administration*

Dissertation: Healing the Academic Spirit: Understanding the Grief Process of African American Male Students in Rural Community Colleges

Dissertation Chair: J. D. Porter-Roberts

## **Michael Scot Baird**

Major: *Curriculum and Instruction*

Dissertation: Improving the Outcome of Minority Students from a High Needs Background in an Online Secondary Chemistry Class

Dissertation Chair: N. L. Dana

Dissertation Co-chair: A. Murata

## **Shari Amira Baker**

Major: *Curriculum and Instruction*

Dissertation: Turning Access into Achievement: A Case Study of Highly Successful Advanced Placement Teachers in an Urban High School

Dissertation Chair: V. A. Vescio

Dissertation Co-chair: E. Bondy

## **Patrick E. Brennan**

Major: *Higher Education Administration*

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

Dissertation Chair: D. F. Campbell

## **Suzanne Cruz**

Major: *Curriculum and Instruction*

Dissertation: "But Aren't They Too Young to Talk about 'These' Things?": Understanding Pre-service Teachers' Conceptions of Equity-Based Pedagogies for the Early Childhood Classroom

Dissertation Chair: A. Murata

Dissertation Co-chair: N. L. Dana

## **Corinne M. Duffy**

Major: *Curriculum and Instruction*

Dissertation: Implementing a Peer Coaching Model to Facilitate Student-Centered Learning

Dissertation Chair: V. A. Vescio

Dissertation Co-chair: E. Bondy

## **David W. Erickson**

Major: *Educational Leadership*

Dissertation: A Financial and Academic Investigation of the Virtual Learning Environment versus the Traditional Learning Environment for Students in Poverty

Dissertation Chair: R. C. Wood

## **Jason A. Frank**

Major: *Curriculum and Instruction*

Dissertation: Recruiting and Supporting Online Adjunct Faculty at Community Colleges

Dissertation Chair: S. Kumar

## **Kirk Jason Hutchinson**

Major: *Educational Leadership*

Dissertation: A Two-Way Multivariate Analysis of Variance Examination of Summer Learning Academies and Their Effect on Student Academic Proficiency and Growth

Dissertation Chair: L. B. Eldridge

## **David A. Murphy**

Major: *Educational Leadership*

Dissertation: Teacher Evaluation Methodology, Measurements of Student Performance, and Use in Teacher Compensation: An Examination of System Alignment

Dissertation Chair: R. C. Wood

**April Marie Ring**

Major: *Higher Education Administration*

Dissertation: *Expanding the Sails: Case Study of the Statewide Development and Expansion of a Math Course Redesign*

Dissertation Chair: D. F. Campbell

Dissertation Co-chair: C. Haynes

**Virginia L. Stewart Miller**

Major: *Higher Education Administration*

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

Dissertation Chair: D. F. Campbell



## DOCTOR OF AUDIOLOGY

Connor Lynn Brown  
Allison Marie Costello  
Sara K. Gaffney  
Allison L. Hatcher  
Letitia M. Krieg

Camille Charlie Lacasse  
Gary Jek Chong Lee  
Virginia Kitch Lupo  
Matthew H. Lyon  
Tami Mehl

Courtney L. Ridley  
Sara Beth Stepper  
Thais Toledo

## DOCTOR OF BUSINESS ADMINISTRATION

Jared James Pressell

## DOCTOR OF NURSING PRACTICE

Jessica M. Albaugh  
Staccie Anne Allen  
Sydney Lauren Banack  
Crystal Elaine Blair  
Heidi Diane Brown  
Marianna Broz  
Jordan M. Budwick  
Kathryn Ann Campbell  
Christina I. Collins  
Cori Marie Cook  
Mark Anthony Costanzo  
Cassandra Marie Craft  
Megan Clare Culligan  
Nicolina Victoria Demuyneck  
Christina Maria Eagan  
Lauren Hood Emrick  
Angelica C. Estrella  
Tifani D. Fivecoat  
Gina Marie Gallo  
Nicole K. Geier  
Kristen Beth Gibbs  
Lauren Jill Gorter  
Christopher M. Green  
Rachel Jane Heidgerd

Matthew Ryan Higgins  
Taylor Rebekah Hires  
Julie Corinne Howlin  
Whitney Lauren Jacob  
Courtney Elizabeth Jones  
Sara Ann Lewis  
Marie Mathurin  
Malorie Kristen McKinnon  
Kelley Marie Meadows  
Chelsea E. Melville  
Jordan Rhea Meurer  
Amelie E. Middlemas  
Sean Patrick Vincent Molloy  
Jacqueline Morgan  
Katelynd Marie Morgan  
AnnMarie Morrisseau  
Trenton Allen Nickerson  
Kathy A. Noffsinger  
Merredith McArthur Oakes  
Teresa Padro  
Elizabeth Rose Paré  
Deborah Lotte Piccaluga  
Lyndsay Marie Piccininni  
Caitlin J. Powers

Mary Jo Quinn  
Carolyn Elizabeth Ragland  
Ashley Ann Ramsay  
Ashley Baldwin Sauls  
Tiffany Lauren Scalf  
Lisa J. Schilling  
Jessica Dixon Shrum  
Jennifer A. Sibley  
Stephanie Christine Sky  
Keore F. Smith  
Leslee Irene Stafford  
Christina Maria Todd  
Teresa T. Truong  
Kimberly A. Turner  
Veronica Fernicola Tyle  
Rachelle-Mae Villanueva  
Cristina L. Vuong  
Leah Teresa Weeks  
Janna White  
Lisa A. Wisemen  
Yu Wu

## DOCTOR OF PLANT MEDICINE

Blaire Cathleen Colvin

Wael Mohamed Elwakil

Daniel A. Mancero Castillo

## DOCTOR OF PHYSICAL THERAPY

Lance A. Bayer  
Mallory E. Bell  
Matthew James Biegler Jr.  
Alaine G. Blessman  
Janeen McCormick Blythe  
Kathlene A. Bobbitt  
Lacey A. Booth  
Thad Boucher  
Lauren Marie Brinskelle  
Brittany N. Britt  
McKenzie E. Carter  
Andrea Coralie Cedeno-Tobon  
Christina Michelle Chan-Pong  
Sung Jae Cho  
Robert Dare Christy  
Melissa S. Clarke  
Joshua J. Cooper  
Marnie Rose Cranmer  
Rafael D. Cui  
Christopher Ariel Mabella Dela Cruz  
Derek Kenneth Drake  
Joshua James Elam  
Jessica E. Ford  
Carla Gabaldon Torrents  
Kirsten Paige Garemore

Michaelene Elizabeth Genter  
Macy Christina Gill  
Paula Gomes  
Carlos J. Gonzalez  
Rebecca Anne Gordon  
Katherine E. Guillory  
Mark A. Halvorsen  
Kelly Welsh Hardesty  
Anna E. Heinzman  
Jessica A. Herring  
Melaney Nicole Holtham  
Jaclyn Alyssa Jefferson  
Elsa L. Johnson  
Anthony Vada Jones  
John D. Jones  
Heather Kalafarski  
Kristi Irene Kirby  
Ashley Nicole Klemka  
Jennifer Michelle Kondrach  
Laura M. Kummerle  
Rebecca A. Lawrence  
Winston James Liu  
Nicole Marie Marsalisi  
Katherine R. McConnell  
Abby G. Mears

Dino Medic  
Jonathan D. Norton  
Samantha D. Paedae  
Jeffrey T. Peckins  
Taylor Mary Permenter  
Natasha M. Petrovich  
Andres Sanchez  
Jenna Ann Schuetzle  
Laura Christine Schwanebeck  
Adam E. Scofield  
Brittany Eryn Silke  
Micaela Naomi Silverman  
Minsuk Song  
Mark A. Stevens  
Jesse D. Tolley  
Stefano Terence Trompeo  
Jeffrey B. Whitaker  
Steven Alexander Wietrzykowski



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

*Some interesting facts about the University of Florida*

### **Educational Excellence**

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

### **Faculty**

- UF has nearly 5,000 faculty members with distinguished records in teaching, research and service, including 36 Eminent Scholar chairs and 45 faculty elections to the National Academy of Sciences, Engineering, the National Academy 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 2018 freshman class had an average 4.45 GPA and an average SAT score of 1370.
- The freshman retention rate of 96 percent is among the highest in the country.
- UF awards more professional degrees to African American, Hispanic and other minority students than any other public university in the Association of American Universities (2014-15).
- Sixty-seven percent of UF full-time freshmen graduate in four years (2011-12 cohort), and 87 percent of UF freshmen graduate within six years (2009-10 cohort).
- Fifty-seven percent of UF graduates leave the university with no student-loan debt. For the remaining students, their average indebtedness is about \$21,603, as compared with the national average of more than \$30,000 (2015-16).

# **UF**

**2018 SPRING**

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 July 2018.

## Caps and Gowns, An Explanation

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



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

The velvet edging on the academic hood is the color that represents the particular degree held by the wearer. Agricultural and Life Sciences and Forest Resources and Conservation share maize edging; Design, Construction and Planning and Building Construction are blue violet; Audiology degrees have colonial blue edging; Business Administration and Accounting are drab; Dentistry is lilac; Education is light blue; Engineering degrees are represented by orange edging; Fine Arts degrees have brown edging; Health and Human Performance is sage green; Journalism and Communications is garnet; Law is purple; Liberal Arts is white and Liberal Sciences is gold yellow; Medicine is green; Music is pink; Natural Resources and Environment is antique gold; Nursing is apricot; Doctor of Pharmacy is olive; Philosophy is royal blue; Public Health degrees have salmon pink edging; Rehabilitation Counseling degrees have Nile green edging; and Veterinary Medicine is gray.

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

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



## **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.



## **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**