COMMENCEMENT APP
Download the UF Commencement APP for latest information. GATORWAY is the official events mobile app of the University of Florida and is free to download on Android or IOS. Have all your necessary UF graduation weekend information handy on your mobile device. https://guidebook.com/app/gatorway/

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.
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 2019.

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

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

Good luck, best wishes, and Go Gators!

W. Kent Fuchs

University of Florida President

Dr. W. Kent Fuchs

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

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

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

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

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

Dr. Fuchs is married to Linda Moskeland Fuchs, an art historian. The 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

### State Board of Education
- **Richard Corcoran**, Commissioner of Education
- **Marva Johnson**, Chair
- **Andy Tuck**, Vice Chair

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Ben Gibson</td>
<td>Commissioner of Education</td>
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<td>Tom Grady</td>
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<td>Michael Olenick</td>
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<td>Joe York</td>
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### Florida Board of Governors
- **Marshall M. Criser III**, Chancellor
- **Richard Corcoran**, Commissioner of Education
- **Ned C. Lautenbach**, Chair
- **Sydney Kitson**, Vice Chair

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<th>Name</th>
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<tr>
<td>Tim Cerio</td>
<td>Commissioner of Education</td>
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<tr>
<td>Shawn Felton</td>
<td>Chair</td>
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<td>Patricia Frost</td>
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<td>Darlene L. Jordan</td>
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<td>Alan M. Levine</td>
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<td>Edward A. Morton</td>
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<td>Jay S. Patel</td>
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<td>Frederic V. Salerno</td>
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<td>Norman D. Tripp</td>
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<td>Jalisa S. White</td>
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<td>Zach P. Zacharia</td>
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### University of Florida

### Board of Trustees
- **Morteza “Mori” Hosseini**, Chair
- **Thomas G. Kuntz**, Vice Chair

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<th>Name</th>
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<tr>
<td>David L. Brandon</td>
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<td>Ian M. Green</td>
<td>Chair</td>
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<td>James W. “Bill” Heavener</td>
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<td>Leonard H. Johnson</td>
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<td>Daniel T. O’Keefe</td>
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<td>Rahul Patel</td>
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<td>Marsha D. Powers</td>
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<td>Jason J. Rosenberg</td>
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<td>Robert G. Stern</td>
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<td>Katherine Vogel Anderson</td>
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<td>Anita G. Zucker</td>
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### Deans of the University

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<th>Name</th>
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<tr>
<td>R. Elaine Turner, Ph.D.</td>
<td>College of Agricultural and Life Sciences</td>
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<tr>
<td>Onye P. Ozuzu, M.F.A.</td>
<td>College of the Arts</td>
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<tr>
<td>John Kraft, Ph.D.</td>
<td>Warrington College of Business</td>
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<tr>
<td>A. Isabel Garcia, D.D.S., M.P.H.</td>
<td>College of Dentistry</td>
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<tr>
<td>Chimay Anumba, Ph.D.</td>
<td>College of Design, Construction and Planning</td>
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<td>Glenn E. Good, Ph.D.</td>
<td>College of Education</td>
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<td>Cammy R. Abernathy, Ph.D.</td>
<td>Herbert Wertheim College of Engineering</td>
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<td>Henry T. Frierson, Ph.D.</td>
<td>The Graduate School</td>
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<td>Michael Reid, Ph.D.</td>
<td>College of Health and Human Performance</td>
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<td>Nick Place, Ph.D.</td>
<td>IFAS Extension</td>
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<tr>
<td>Robert Gilbert, Ph.D.</td>
<td>IFAS Research</td>
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<tr>
<td>Leonardo Villalón, Ph.D.</td>
<td>International Center</td>
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<tr>
<td>Diane H. McFarlin, B.S.</td>
<td>College of Journalism and Communications</td>
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<tr>
<td>Laura A. Rosenbury, J.D.</td>
<td>Fredric G. Levin College of Law</td>
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<td>David E. Richardson, Ph.D.</td>
<td>College of Liberal Arts and Sciences</td>
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<tr>
<td>Adrian Tyndall, M.D., M.P.H.</td>
<td>Interim, College of Medicine</td>
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<tr>
<td>Anna M. McDaniel, Ph.D., R.N.</td>
<td>College of Nursing</td>
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<tr>
<td>Julie A. Johnson, Pharm.D.</td>
<td>College of Pharmacy</td>
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<tr>
<td>Michael G. Perri, Ph.D.</td>
<td>College of Public Health and Health Professions</td>
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<tr>
<td>James W. Lloyd, D.V.M., Ph.D.</td>
<td>College of Veterinary Medicine</td>
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<td>Judith C. Russell, M.S.</td>
<td>University Libraries</td>
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<tr>
<td>Heather White, Ph.D.</td>
<td>Dean of Students</td>
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COMMENCEMENT AGENDA – FRIDAY, MAY 3, 2:00 p.m.

Presiding
W. Kent Fuchs
President

Processional
Gainesville Brass Quintet

National Anthem
Anthony Offerle
Gainesville Brass Quintet

Welcome
W. Kent Fuchs

Introductions
Joseph Glover
Provost and Senior Vice President for Academic Affairs

Awarding of Honorary Degrees
Presented by

Doctor of Science presented to
William H. Foege
Seattle, WA

Doctor of Education presented to
James Patterson
Palm Beach, FL

Doctor of Laws presented to
George H. Starke, Jr.
Clermont, FL

Commencement Address
Scott Powers
University Athletic Association
Endowed Professor, Applied Physiology and Kinesiology

Presenting Candidates for Degrees
Joseph Glover

Conferring of Degrees
Anita Zucker
Member, UF Board of Trustees

Closing Remarks
W. Kent Fuchs

Alma Mater
Anthony Offerle
Gainesville Brass Quintet

Recessional and Postlude
Gainesville Brass Quintet
Commencement Speaker

Scott Powers

Scott K. Powers is the University Athletic Association (UAA) Endowed Professor and a Distinguished Professor in the Department of Applied Physiology and Kinesiology at the University of Florida. Dr. Powers is a physiologist who investigates the effects of both muscular exercise and prolonged inactivity on the health of skeletal muscles and the heart.

During his 30-year research career at UF, Dr. Powers and his research team have published more than 250 peer-reviewed publications, of which many are widely cited. These three decades of research have been supported by continuous extramural funding provided by numerous granting agencies including the National Institutes of Health, the American Heart Association, and the American Lung Association.

Dr. Powers is also an accomplished teacher who has won numerous teaching awards and has been selected for membership into the Academy of Distinguished Teaching Scholars at the University of Florida. His interest in pedagogy is also illustrated by his authorship of two college textbooks on exercise physiology. Notably, Dr. Powers has also been recognized by the University of Florida as the Teacher/Scholar of the Year in 2017.
Honorary Degree - Doctor of Science

William H. Foege

William Herbert Foege, M.D., M.P.H. is a physician and epidemiologist credited with designing the strategy that led to the eradication of smallpox. He trained as a medical doctor at the University of Washington (1961) and served as an Epidemic Intelligence Service officer at the Centers for Disease Control and Prevention (CDC, 1962-1964). He completed his Master of Public Health at Harvard School of Public Health in 1965, after having become interested in global public health.

Bill Foege was serving as a missionary in the Lutheran Church in northern Nigeria when he was recruited to the CDC to share an effective containment strategy he had developed for smallpox. He ultimately became chief of the CDC Smallpox Eradication Program and oversaw the global eradication of smallpox. Dr. Foege later served as director of the CDC and co-founded the Task Force for Child Survival and Development, a working group for the World Health Organization, UNICEF, the World Bank, the United Nations Development Program, and the Rockefeller Foundation, now renamed the Task Force for Global Health. He also served as executive director and Health Policy Fellow for the Carter Center, professor at Emory University’s Rollins School of Public Health, and senior fellow for the Bill and Melinda Gates Foundation.

Dr. Foege’s efforts at the CDC and the Task Force were central to increasing global rates of immunization among children in developing countries to historic highs in the 1980s. Through teaching, lecturing, and advising on prioritization and leadership in Global Health, his engagement at the Gates Foundation and Emory University has been critical to reshaping the future landscape of global health in the 21st century.

Dr. Foege is the recipient of numerous awards, including the 2012 Presidential Medal of Freedom, the nation’s highest civilian honor. He is the author of more than 160 professional publications, including his most recent book, House on Fire (2012), the story of global smallpox eradication. Today he serves as Emeritus Presidential Distinguished Professor of International Health at Emory University’s Rollins School of Public Health.
Honorary Degree – Doctor of Education

James Patterson

James Patterson is the world’s bestselling author and most trusted storyteller. He has created many enduring fictional characters and series, including Alex Cross, the Women’s Murder Club, Michael Bennett, Maximum Ride, Middle School, and I Funny. Among his notable literary collaborations are The President Is Missing, with former President Bill Clinton, and the Max Einstein series, produced in partnership with the Albert Einstein Estate.

Mr. Patterson’s writing career is characterized by a single mission: to prove that there is no such thing as a person who “doesn’t like to read,” only people who haven’t found the right book. He’s given over three million books to schoolkids and the military, donated more than seventy million dollars to support education, and endowed over five thousand college scholarships for teachers. The National Book Foundation recently presented Mr. Patterson with the Literarian Award for Outstanding Service to the American Literary Community, and he is also the recipient of an Edgar Award and six Emmy Awards.

At the University of Florida College of Education, Mr. Patterson has invested in the success of students pursuing careers as elementary or secondary school teachers by creating 16 scholarships in 2015, which have supported 28 students to date. Further, he has launched the James Patterson Literacy Challenge, an ambitious mission created in partnership with the UF Literacy Initiative to tackle the literacy crisis affecting Florida and double the number of schoolchildren proficient in reading. The James Patterson Literacy Challenge is currently serving five under-performing schools in two Florida school districts, Alachua County and Broward County, providing school leaders and educators empowering professional development opportunities and tools to build their capacity to support the diverse and dynamic literacy needs of their students.
Honorary Degree - Doctor of Laws

George H. Starke, Jr.

Four years after segregation was declared unconstitutional in Brown vs. Board of Education, George H. Starke, Jr. enrolled in the University of Florida in September 1958 as the first African-American student admitted to the 105-year-old institution. Mr. Starke was 27 years old at the time and pursuing his dream of a law degree. After three semesters, the physical and emotional pressures of being the only African-American student at UF took their toll, and Mr. Starke withdrew to take a job on Wall Street.

Before making history at UF Law, Mr. Starke earned a B.A. degree in Business Administration from Morehouse College in Atlanta, Ga. For the next five decades, he worked as a mortgage broker, investment banker, and energy consultant in New York and Washington, DC.

In 1962, Mr. Starke was the first African-American employed as an investment advisory aide with Moody’s Investment Advisory Services in New York City. His business acumen facilitated a successful career in venture capital, corporate and municipal finance, including serving as president of both Investment Services Corp. and General Power Co. His résumé also includes roles at Oppenheimer & Co., The Greyhound Corp., Wall Street Investment Corp., and General Trading Corp.

Mr. Starke was born into a family of pioneers. His father, Dr. George Starke, was the first African-American to gain membership in the Florida Medical Association and to open his own practice in Sanford, Fla. His mother, Mattie Starke, was a beloved high school teacher and librarian. Mr. Starke’s cousin, Daphne Duval Williams, also made history as UF’s first female African-American student when she enrolled in the College of Education in January 1959.

In 2009, Mr. Starke received UF’s Distinguished Alumnus Award. In 1998 and again in 2018, he was honored by the Center for the Study of Race and Race Relations at UF’s Levin College of Law in recognition of the important role he played in the history of Florida higher education.

Mr. Starke has served on the UF Alumni Association Board of Directors and the University of Florida Foundation’s DC Council. He is a lifetime member of the UF Alumni Association, a member of Kappa Alpha Psi Fraternity, and an honorary member of Florida Blue Key.
GRADUATE SCHOOL

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

DOCTOR OF PHILOSOPHY

Firas Mohammed Abed
  Major: Veterinary Medical Sciences
  Dissertation: Genetics of Canine Pheochromocytoma
  Dissertation Chair: M. J. Dark

Siddhartha Abhinav
  Major: Physics
  Dissertation: Non-Linear Effects of Phonon-Phonon Interaction on Thermal Transport through a Nanowire
  Dissertation Chair: K. A. Muttalib

Alejandra Abril Guevara
  Major: Plant Molecular and Cellular Biology
  Dissertation: Genetic Improvement of Cell Wall Composition and Waterlogging Tolerance of Sorghum bicolor
  Dissertation Chair: W. Vermerris

Brittany M. Adams
  Major: Curriculum and Instruction
  Dissertation: Cultivating Critical Literacy with Young Adult Literature in the College Classroom
  Dissertation Chair: Z. Fang

Christiana Aikenosi Akande
  Major: Research and Evaluation Methodology
  Dissertation: Performance of the Mantel-Haenszel and CATSIB DIF Procedures in a Computerized Multistage Testing Environment
  Dissertation Chair: D. Miller
  Dissertation Co-chair: A. C. Manley

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

Md Mahbub Alam
  Major: Electrical and Computer Engineering
  Dissertation: A Framework for Establishing Trust and Integrity in Modern IC Supply Chain
  Dissertation Chair: D. J. Forte

Meshari S. Alenezi Sr.
  Major: Geography
  Dissertation: Temporal-Spatial Analysis of Vegetation Cover Change and Protected Area Management
  Dissertation Chair: J. Southworth

Wael Abdullah Alghamdi
  Major: Pharmaceutical Sciences—Clinical Pharmaceutical Sciences
  Dissertation: Dose Optimization for Drugs Used in Tuberculosis and Human Immunodeficiency Virus Infection
  Dissertation Chair: C. A. Peloquin

Amanda Davina Ali
  Major: Agricultural Education and Communication
  Dissertation: Personal Resilience of Extension Agents and Communication Behaviors of County Extension Directors Post-Disaster
  Dissertation Chair: T. G. Roberts II
  Dissertation Co-chair: A. M. Harder
Babak Alipour
Major: Computer Engineering
Dissertation: Integrated Network Traffic-Mobility Analysis and Modeling Using Big Data
Dissertation Chair: A. A. Helmy

Latoya L. Allen
Major: Medical Sciences—Neuroscience
Dissertation: Neurochemical and Neuroanatomical Plasticity in Spinal Respiratory Motor Neurons following Cervical Spinal Cord Injury and Intermittent Hypoxia
Dissertation Chair: G. S. Mitchell

Philip C. Allen
Major: Romance Languages—Spanish
Dissertation Chair: L. Álvarez-Castro

Mohammed Almarshoud
Major: Civil Engineering
Dissertation: Enhanced Analysis Tools and Measurement Methods to Evaluate Concrete Transport Properties
Dissertation Chair: K. A. Riding
Dissertation Co-chair: M. Tia

Phillip Christopher Arceneaux
Major: Mass Communication
Dissertation Chair: D. H. Ostroff

Brandon Dwayne Armstrong
Major: Political Science
Dissertation: An Exploration of Crime and Politics
Dissertation Chair: L. C. Dodd
Dissertation Co-chair: B. A. Rosenson

Lesley-Gail Megan Atkinson
Major: Anthropology
Dissertation: Buréns, Cooking Pots and Water Jars: A Comparative Analysis of Jamaican Prehistory
Dissertation Chair: W. F. Keegan

Alisheikh Adem Atta
Major: Soil and Water Sciences
Minor: Horticultural Sciences
Dissertation: Citrus Nutrient Management on Huanglongbing (HLB, or Citrus Greening) Affected Citrus Groves on Florida Sandy Soils
Dissertation Chair: K. T. Morgan

Méric Langston Augat
Major: Mathematics
Dissertation: The Free Grothendieck Theorem
Dissertation Chair: S. A. McCullough
Dissertation Co-chair: J. E. Pascoe

Hassan Azad
Major: Design, Construction and Planning
Dissertation: Spectral and Spatial Assessments of Diffuse and Scattered Reflections in Rooms and Their Effects on Reverberation Time, Clarity, and Sound Pressure Level
Dissertation Chair: G. W. Siebein

Joany Babilonia
Major: Microbiology and Cell Science
Dissertation: Comparative Metagenomics and Metabolomics for Characterizing Stromatolite Ecological Community Function
Dissertation Chair: J. S. Foster
Sangjune Bae
Major: Mechanical Engineering
Dissertation: Uncertainty Quantification of System Reliability and Its Reduction, Application to Optimization
Dissertation Chair: N. H. Kim

Laura S. Bailey
Major: Chemistry
Dissertation: Characterization of Phosphopeptides by Mass Spectrometry and Infrared Photodissociation
Dissertation Chair: N. C. Polfer
Dissertation Co-chair: K. B. Basso

Nikolas Shane Bajorek
Major: English
Dissertation: Two Turntables and a Microphone: (Re)Mixing the Post-Soul Literary Aesthetic on the Ones and Twos
Dissertation Chair: M. A. Reid

Myrian Sá Leitão Barboza
Major: Anthropology
Dissertation: "Tükuna Cosmological Cartography": The Gendered Meaning and Use of Territories by Katukina Indigenous People from Biá River in Brazilian Amazonia
Dissertation Chair: A. Oyuela-Caycedo
Dissertation Co-chair: M. C. Schmink

Matthew Jeffrey Bauer
Major: Materials Science and Engineering
Dissertation Chair: J. Andrew

Salil Ashish Bavdekar
Major: Mechanical Engineering
Dissertation: A Unified Analytical Model for the Dynamic Response of Structural Ceramics to Impact and Penetration
Dissertation Chair: G. Subhash

Kelly A. Beck
Major: English
Dissertation: Dangerous Spaces: Investigating Multimodal Performances in British Detective Fiction
Dissertation Chair: P. E. Wegner

Rachel E. Black
Major: Anthropology
Dissertation: The Price of Freedom: Negotiating Social Status through Death in Jim Crow-Era Savannah, Georgia
Dissertation Chair: J. M. Davidson
Dissertation Co-chair: J. Krigbaum

Margarita Blanco
Major: Design, Construction and Planning
Dissertation: Suarez and Vizcaya: An Italian Garden in a Sub-Tropical Paradise
Dissertation Chair: K. R. Thompson

Kerri Lisa Blumenthal
Major: Religion
Dissertation: Rejecting the Eagle, Embracing the Condor: Spirituality and Lifestyle Migration among North Americans in Cuzco, Peru
Dissertation Chair: A. Peterson

Hypatia Amanda Bolívar
Major: Psychology
Dissertation: Human Operant Studies of Resurgence: Effects of Context and Response Cost
Dissertation Chair: J. Dallery
Caleb J. Bostwick  
Major: Medical Sciences—Neuroscience  
Dissertation: Molecular Profiling of Cellular Identity and Plasticity in the Nervous System of Aplysia californica  
Dissertation Chair: L. L. Moroz

Jelena Brezjanovic-Shogren  
Major: Anthropology  
Dissertation: Return Migration: The Intra-Cultural Variation of Attitudes of Return Migrants and the Process of Reintegration to Serbia  
Dissertation Chair: J. R. Stepp

Terri M. Brinegar  
Major: Music  
Dissertation: The Recorded Sermons of Reverend Andrew William (A. W.) Nix: Black Voices and the Creation of Modernized Tradition  
Dissertation Chair: L. N. Crook

Emily E. Brown  
Major: Medical Sciences—Genetics  
Dissertation: Mitochondrial Dysfunction in the Retina: Implications for Age-Related Macular Degeneration  
Dissertation Chair: J. Ash  
Dissertation Co-chair: A. S. Lewin

Benjamin Ryan Burgen  
Major: Anthropology  
Dissertation: Old Dreams, New Money, and Unfinished Houses: Economic Life in the Senegal River Valley Today  
Dissertation Chair: A. Kane

Earlesha T. Butler  
Major: Mass Communication  
Dissertation Chair: B. E. Tripp

Jinzheng Cai  
Major: Biomedical Engineering  
Dissertation: Radiology Medical Image Analysis with Deep Convolutional Neural Networks  
Dissertation Chair: L. Yang

Huzeyfe Cakmakci  
Major: Counseling and Counselor Education  
Dissertation: Bullying Victimization as Mediator of the Relationship between Teachers' Unfair Treatment, Parents' Support and Sense of Belonging at School Using Structural Equation Modeling  
Dissertation Chair: S. L. Smith

Anquinetta Vonceil Calhoun  
Major: Counseling and Counselor Education  
Dissertation: Exploring (Mis)Recognition in the Lived Experiences of Black Girls at School: A Reflective Lifeworlds Research Study  
Dissertation Chair: S. L. Smith

Manu Chandran  
Major: Electrical and Computer Engineering  
Dissertation: Application of Machine Learning Techniques in Point Cloud Generation and Point Cloud Object Classification  
Dissertation Chair: D. Wu

Kelly Suzanne Chapman  
Major: Anthropology  
Dissertation: Women and Water: Household Water Beliefs and Behaviors among Women in Gressier and Léogâne, Haiti  
Dissertation Chair: P. F. Collings
Bhim Chaulagain  
**Major:** Plant Pathology  
Dissertation: Investigations into Sugarcane Rusts: Disease Prediction Modeling and Management  
Dissertation Chair: P. C. Rott  
Dissertation Co-chair: R. N. Raid

Chenxi Chen  
**Major:** Mathematics  
Dissertation: Stochastic Alternating Direction Method of Multipliers and Stochastic Primal-Dual Methods for Smooth Convex Optimization  
Dissertation Chair: Y. Chen

Tuo Chen  
**Major:** Statistics  
Dissertation: Efficient Estimation in Expectile Regression Using Envelope Models  
Dissertation Chair: Z. Su

Xigao Chen  
**Major:** Chemistry  
Dissertation: The Application of Functional DNA in Drug Delivery and Cell Membrane Protein Modification  
Dissertation Chair: W. Tan

Xuqi Chen  
**Major:** Food and Resource Economics  
Dissertation: Three Essays on Information Seeking and Consumer Decision Making Regarding Food Labels  
Dissertation Chair: Z. Gao  
Dissertation Co-chair: L. A. House

Zhaoyi Chen  
**Major:** Epidemiology  
Dissertation: Level Analysis of Rheumatoid Arthritis via Multi-Domain Machine Learning  
Dissertation Chair: M. Prosperi

Li Cheng  
**Major:** Curriculum and Instruction  
**Minor:** Research and Evaluation Methodology  
Dissertation: 3D Printing Technology Integration in K-12 Science Classrooms: Teacher Beliefs and the Influence on Students' STEM Motivation, Interests in STEM Careers, and 21st Century Skills  
Dissertation Chair: A. D. Ritzhaupt  
Dissertation Co-chair: P. Antonenko

Andrew D. Chilton  
**Major:** Physics  
Dissertation: Technology Development for the LISA Mission  
Dissertation Chair: G. Mueller

Kenneth W. Chitwood  
**Major:** Religion  
Dissertation: Between Umma and asaBoricua: Puerto Rican Muslims and the Idea of Cosmopolitanism  
Dissertation Chair: T. Østebø

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

Jungah Choi  
**Major:** Curriculum and Instruction  
Dissertation: The Moderation Effect of Immigrant Generational Status on the Relationship between Teacher-Student Relationship and Mathematics Performance  
Dissertation Chair: T. Murata
Ashley Marie Compaan  
Major: Materials Science and Engineering  
Dissertation: Design of Inks and Printing Media for Advanced 3D Printing Applications  
Dissertation Chair: Y. Huang

Keith J. Copenhaver  
Major: Mathematics  
Dissertation: Statistics in Rooted Trees  
Dissertation Chair: M. Bona

Ross D. Cotton  
Major: Political Science  
Dissertation: The Challengers of Regional Authority Explaining Regionalist Party Success and Failure in Scotland and Quebec  
Dissertation Chair: C. O’Dwyer

Austin D. Council  
Major: Agricultural Education and Communication  
Dissertation: Exploring the Perceptions, Development and Expression of Leadership among Identified Humble Leaders in the Florida Agriculture and Natural Resources Industry  
Dissertation Chair: M. J. Sowcik

Christian Abraham Cousin  
Major: Mechanical Engineering  
Dissertation: Hybrid Exoskeletons for Rehabilitation: A Nonlinear Control Approach  
Dissertation Chair: W. E. Dixon

Thomas Coe Cross  
Major: Business Administration—Management  
Dissertation: Effect of Service Orientation on Helping Behavior in Teams and Team Performance  
Dissertation Chair: A. Erez

Amanda C. Croteau  
Major: Fisheries and Aquatic Sciences  
Dissertation: Evaluation of Coastal Marsh Restoration Efforts in Robinson Preserve, Tampa Bay, Florida  
Dissertation Chair: C. Cichra

Katrina Kayla Cuddy  
Major: Botany  
Dissertation: Previously Unknown, Now Separated from the Family: Why a Protein Closely Related to Novel Actin Depolymerizing Factor Regulators Could Be Sent to the ER  
Dissertation Chair: D. G. Oppenheimer

Emily C. Dabe  
Major: Medical Sciences—Neuroscience  
Dissertation: The Epigenomic Bases of Neuronal Identity  
Dissertation Chair: L. L. Moroz

Kristen A. Dahl  
Major: Interdisciplinary Ecology  
Dissertation: Life History and Ecology of Rapidly Expanding Invasive Lionfish Populations in the Northern Gulf of Mexico: Impacts to Native Reef Fish Communities and Their Potential Mitigation  
Dissertation Chair: W. F. Patterson III

Philip Franklin Daniels  
Major: Counseling and Counselor Education  
Dissertation: Connecting through Play: The Lived Experience of Formal Caregivers for Individuals with Progressive Dementia in a Memory Care Community  
Dissertation Chair: S. L. Smith

Patryk Deptula  
Major: Mechanical Engineering  
Dissertation: Data-Based Reinforcement Learning: Approximate Optimal Control for Uncertain Nonlinear Systems  
Dissertation Chair: W. E. Dixon
Jess-Karan Singh Dhillon  
**Major:** Medical Sciences—Neuroscience  
**Dissertation:** Investigating the Strain Properties of Alpha-Synuclein: Implications for Pathogenesis  
**Dissertation Chair:** B. I. Giasson

Milton Hugo Diaz Toribio  
**Major:** Interdisciplinary Ecology  
**Dissertation:** Community Dynamics and Under-Ground Functional Trait Responses of Plants in Pine Savannas after Fire Suppression  
**Dissertation Chair:** F. E. Putz

Emily Thuong Nguyen Dinh  
**Major:** Geography  
**Minor:** Geoanalytical Ecology  
**Dissertation:** Epizootic Hemorrhagic Disease Virus Transmission Risk in North Florida Ranched and Wild White-Tailed Deer  
**Dissertation Chair:** J. K. Blackburn

Daniel John Dobbins  
**Major:** Chemistry  
**Dissertation:** Bulk Thermoresponsive Polymeric Materials for Insensitive Munitions Applications: Diels-Alder Crosslinked Networks and Energetic Polymers  
**Dissertation Chair:** B. S. Sumerlin

Michael T. Dobbins  
**Major:** Interdisciplinary Ecology  
**Dissertation:** Anthropogenic Impacts on Tropical Mammals  
**Dissertation Chair:** E. N. Broadbent

Anthony M. Donaldson Jr.  
**Major:** History  
**Dissertation Chair:** W. Link

Jun Dong  
**Major:** Mechanical Engineering  
**Dissertation:** An Experimental and Modeling Study of Fundamental Spray Cooling Heat Transfer for Terrestrial and In-Space Cryogenic Storage Tank Chilldown  
**Dissertation Chair:** J. N. Chung

Krista Marie Dulany  
**Major:** Materials Science and Engineering  
**Dissertation:** Investigation of Free Radical Scavenging Composite Scaffolds for Bone Tissue Engineering  
**Dissertation Chair:** J. Allen

Alexandrea A. Duscher  
**Major:** Microbiology and Cell Science  
**Dissertation:** Impact of Modeled Microgravity on the Beneficial Symbiosis between the Hawaiian Bobtail Squid, *Euprymna scolopes*, and Its Bioluminescent Partner, *Vibrio fischeri*, with a Focus on Innate Immune Response  
**Dissertation Chair:** J. S. Foster

Amanda B. Edgell  
**Major:** Political Science  
**Dissertation:** The Strategic Origins of Electoral Gender Quotas in Authoritarian Regimes  
**Dissertation Chair:** M. H. Bernhard

Juliette Experton  
**Major:** Chemistry  
**Dissertation:** Electrochemical Investigations of Gold-Microtube Membranes with Applications in Biology and Energy  
**Dissertation Chair:** C. R. Martin
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

Rashidah Halimah Farid  
**Major:** Wildlife Ecology and Conservation  
Dissertation: Demography and Population Dynamics of the Gunnison (Cynomys gunnisoni) Prairie Dog in the Southwest United States  
Dissertation Chair: V. K. Hull  
Dissertation Co-chair: R. R. Carthy

Soheil Fathi  
**Major:** Design, Construction and Planning  
Dissertation: Campus Energy Usage Prediction (CEUP) Using Artificial Intelligence for Climate Change Adaptation  
Dissertation Chair: R. S. Srinivasan  
Dissertation Co-chair: C. J. Kibert

Maureen Patricia Fennessy  
**Major:** Curriculum and Instruction  
Dissertation: Reading and Writing in Sixth-Grade Science Classrooms  
Dissertation Chair: Z. Fang

Margaret Mary Fettis  
**Major:** Biomedical Engineering  
Dissertation: Advancing Galectin-1 as an Immunomodulatory Therapeutic  
Dissertation Chair: G. Hudalla

Nicholas T. Foreman  
**Major:** History  
Dissertation: The Calorie of Progress: Food and Culture in the Lower Mississippi Valley, 1760-1860  
Dissertation Chair: J. Barr  
Dissertation Co-chair: I. L. Altman

Andressa Morato Freitas  
**Major:** Soil and Water Sciences  
Dissertation: Phosphorus Release from Biochar of Various Feedstocks Implications for Land Management  
Dissertation Chair: V. D. Nair

Claire Nicoli Friedrichsen  
**Major:** Soil and Water Sciences  
Dissertation: Identifying Communication Barriers to Successful Implementation of Soil and Water Technology for Improving Food Security  
Dissertation Chair: S. H. Daroub

Kia C. Fuller  
**Major:** Genetics and Genomics  
Dissertation: Examining the Roles of Genetics and Sociocultural Environment in Health: Investigating Complex Disease through a Biocultural Lens  
Dissertation Chair: C. J. Mulligan

Rodrigo Furtado dos Santos  
**Major:** Plant Molecular and Cellular Biology  
Dissertation: Optimizing Genome-Wide Selection for Forest Tree Breeding  
Dissertation Chair: M. Kirst

Hunter S. Futch  
**Major:** Medical Sciences—Neuroscience  
Dissertation: Immunotherapeutic Targeting of Corticotropin-Releasing Factor in Alzheimer’s Disease  
Dissertation Chair: T. E. Golde
Joshua Jodhimani Gabriel  
**Major:** Materials Science and Engineering  
**Dissertation:** Uncertainty Quantification of Material Properties Calculated with Density Functional Theory  
**Dissertation Chair:** R. Hennig

Daniel Marcus Garcia  
**Major:** Mechanical Engineering  
**Dissertation:** Advances in Soft Matter Contact Mechanics  
**Dissertation Chair:** T. E. Angelini

Jorge Luis Garcia  
**Major:** Anthropology  
**Dissertation:** Dietary Social Equality or Inequality at La Tolita a Complex Intercostal Society in Ecuador  
**Dissertation Chair:** A. Oyuela-Caycedo

Kristin Johnson Gardner  
**Major:** Criminology, Law and Society  
**Dissertation:** Examining the Impact of Transfer on Adult Recidivism over the Long Term: A Propensity Score Matching Approach  
**Dissertation Chair:** L. M. Lanza-Kaduce

Debolina Ghosh  
**Major:** Counseling and Counselor Education  
**Dissertation:** Creativity in Cross-Cultural Supervision: A Grounded Theory Approach  
**Dissertation Chair:** S. L. Smith

Elisabeth K. Gilbert  
**Major:** Business Administration—Management  
**Dissertation:** The Trickle-Down Effects of Constructive Deviance  
**Dissertation Chair:** J. Bono

Sabrina Marie Gilchrist  
**Major:** English  
**Dissertation:** Spinning Out of Control: Intersections of the Waltz and Literature in Nineteenth-Century England  
**Dissertation Chair:** P. K. Gilbert

Christina Marie Gobin  
**Major:** Psychology  
**Dissertation:** Neurobiological Substrates of Post-Cocaine Cognitive Function and Drug Seeking: Role of Metabotropic Glutamate Receptor 5  
**Dissertation Chair:** M. Schwendt

Sean Louis Goldberg  
**Major:** Computer Engineering  
**Dissertation:** Active Graph Inference in Knowledge Bases  
**Dissertation Chair:** Z. Wang  
**Dissertation Co-chair:** J. N. Wilson

Tamara Gonçalves Rezende Macieira  
**Major:** Nursing Sciences  
**Dissertation:** Novel Use of Standardized Nursing Care Plan Data to Examine Nursing Care for Hospitalized Older Adults with Cognitive Impairment  
**Dissertation Chair:** G. M. Keenan

Ankush Goswami  
**Major:** Mathematics  
**Dissertation:** Some Problems in Analytic Number Theory  
**Dissertation Chair:** K. Alladi
David McCaskill Gray
Major: Electrical and Computer Engineering
Dissertation: Classifier Training Set Augmentation by Warping Synthetic Data in a Subspace Manifold
Dissertation Chair: J. C. Principe
Dissertation Co-chair: J. G. Harris

Benjamin M. Greek
Major: Mechanical Engineering
Dissertation: Solar Thermochemical H₂ and CO Production Utilizing a Nonstoichiometric Cerium-Based Two-Step Cycle at the 10 kW Reactor Scale
Dissertation Chair: D. W. Hahn

Nicholas Ryan Green
Major: Psychology
Dissertation: Evaluation of Behavioral Procedures and Workers Preferences to Increase Workplace Physical Activity
Dissertation Chair: J. Dallery

Taneshia Althea Greenidge
Major: Counseling and Counselor Education
Dissertation: The Lived Experiences of African American College Women’s Self-Esteem and the Impact of Racial Socialization
Dissertation Chair: M. K. DePue

Adam Jay Grippin
Major: Biomedical Engineering
Dissertation: Engineering Nanoparticles for Treatment of Glioblastoma
Dissertation Chair: J. P. Dobson
Dissertation Co-chair: D. Mitchell

Alexander Nicholas Gruber
Major: Mathematics
Minor: Computer Science
Dissertation: Inference and Classification of Symmetry in Point Clouds
Dissertation Chair: K. P. Knudson

Mengyi Gu
Major: Entomology and Nematology
Minor: Plant Pathology
Dissertation: Bermudagrass Root Rot Complexes Associated with Plant-Parasitic Nematodes and Pythium Species on Golf Courses in Florida
Dissertation Chair: W. T. Crow

Gisselle Esther Guerra Saval
Major: Coastal and Oceanographic Engineering
Dissertation: Saltwater Intrusion in Estuaries of Different Climatic Regions
Dissertation Chair: A. Valle-Levinson

Natalie Hagler
Major: Curriculum and Instruction
Dissertation: Facilitating Critical Dialogue to Develop the Critical Social Justice Literacy of Teacher Candidates: The Lived Experience of Teacher Educators
Dissertation Chair: N. L. Dana

Tayler Laine Hansen
Major: Animal Sciences
Minor: Agronomy
Dissertation: Role of Dietary Fiber on Digestion and Passage Kinetics in Horses
Dissertation Chair: L. K. Warren

Amani M. Harrandah
Major: Medical Sciences—Cancer Biology
Dissertation: Exploring the Roles of MicroRNA and Oral Bacteria in Oral Carcinogenesis
Dissertation Chair: E. K. Chan
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

Deon Victoria Heffington
Major: Curriculum and Instruction
Dissertation: Higher Order Thinking Skills among Latinx English Language Learners in Elementary Classrooms: An Exploratory Study
Dissertation Chair: M. R. Coady

Lauren Michael Henry
Major: Criminology, Law, and Society
Dissertation: Prosecutorial Sexual Assault Case Declination in Indian Country: A Legal Theory Consideration
Dissertation Chair: L. M. Lanza-Kaduce

Michael C. Hermansen
Major: Medical Sciences—Medical Physics
Dissertation: Optimizing Image Acquisition and Reconstruction for a Novel Robotic Cone-Beam Computed Tomography Imaging System
Dissertation Chair: F. J. Bova

Jana Renee Hilsenroth
Major: Interdisciplinary Ecology
Dissertation: Changing Seas: Potential Effects of Increasing Ocean Temperatures on the Black Pearl Industry in French Polynesia
Dissertation Chair: T. K. Frazer

Juan M. Hincapie Castillo
Major: Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy
Dissertation: Evaluating Unintended Consequences of Strategies Aimed to Control the Opioid Crisis on Acute Pain Management Patient Outcomes
Dissertation Chair: A. G. Winterstein

Charles Edwin Hobson
Major: Health Services Research
Dissertation: Using Electronic Phenotyping to Improve the Analytic Power of Claims-Based Episode of Care Analysis
Dissertation Chair: A. G. Mainous III

Kelsey Christine Horvath
Major: Animal Sciences
Dissertation: Environmental Effects on the Development of Behavior and Cognition in Dairy Calves
Dissertation Chair: E. K. Miller Cushon

Md Marup Hossain
Major: Food and Resource Economics
Dissertation: Access to Capital and Subsequent Livelihoods of Smallholders
Dissertation Chair: C. Mullally

Alisa Houseknecht
Major: Counseling and Counselor Education
Dissertation: Motivation, Belonging, and Support: Examining Factors that Affect Persistence in Counselor Preparation Programs
Dissertation Chair: J. M. Swank

Tongyi Huang
Major: Botany
Dissertation: Evaluation of the Responses of Global Terrestrial Carbon Cycle Models to Climate Variability
Dissertation Chair: J. W. Lichstein
Hyunchul Hwang

Major: Civil Engineering
Dissertation: Development of Accelerated Methodologies for Structural Layer Coefficients (SLCs) of Bases
Dissertation Chair: D. R. Hiltunen

Sabrina Islam

Major: Public Health
Dissertation: Psychological Intimate Partner Violence Attitudes and Sexual Stigma among Lesbian and Bisexual Women
Dissertation Chair: K. M. Ross
Dissertation Co-chair: A. N. Zucker

Deja M. Jackson

Major: Civil Engineering
Minor: Urban and Regional Planning
Dissertation: A Multi-Level Exploratory Analysis of Motorcycle Safety
Dissertation Chair: S. Srinivasan

Alyssa M. Jaisle

Major: Mass Communication
Dissertation: Applying the Extended Parallel Process Model to Hurricane Risk and Resource Communication
Dissertation Chair: J. Raup-Krieger

Peyman Jalali

Major: Statistics
Dissertation: A Bayesian Approach to Joint Estimation of Multiple Graphical Models
Dissertation Chair: G. Michailidis
Dissertation Co-chair: K. Khare

Shalini Jayaraman Rukmani

Major: Materials Science and Engineering
Dissertation: Design of Polymeric Materials for Energy and Biomedical Applications through Molecular Simulations
Dissertation Chair: C. M. Colina

Jana Rose Jenquin

Major: Medical Sciences—Biochemistry and Molecular Biology
Dissertation: Small Molecule Approaches to Reduce the Effects of Toxic Repeat RNA in Myotonic Dystrophy Models
Dissertation Chair: J. A. Berglund

Kookhyun Jeong

Major: Materials Science and Engineering
Dissertation: Innovative Coating of Vanadium Carbide on the F/M Cladding Tube Inner Surface for Mitigating Fuel Cladding Chemical Interactions
Dissertation Chair: Y. Yang

Tian Jiang

Major: Chemistry
Dissertation: Nanoparticle-Based Machinery for Specific mRNA Degradation and Its Potential Therapeutic Applications
Dissertation Chair: Y. C. Cao

Yue Jiang

Major: Medical Sciences—Cancer Biology
Dissertation: Functional Properties of MYB-NFIB Gene and Novel Therapeutic Strategy Development in Human Adenoid Cystic Cancer
Dissertation Chair: F. J. Kaye

Mustafa Ojonuba Jibrin

Major: Plant Pathology
Dissertation: Global and Regional Studies on Population Genomics, Recombination, Spread and Diversification of Bacterial Spot Xanthomonads
Dissertation Chair: P. D. Roberts
Dissertation Co-chair: J. B. Jones
Joseph John Thalakkottor
Major: Mechanical Engineering
Dissertation: Developing a Unified Velocity Boundary Condition for Fluid Flows
Dissertation Chair: K. Mohseni

Lacey Alexandra Johnson
Major: Mathematics
Dissertation: Discrete Morse Theory on the Loop Space of S^2
Dissertation Chair: K. P. Knudson

Robert A. Johnson
Major: Zoology
Dissertation: Effects of Green Turtle Grazing on Carbon Dynamics and Infaunal Communities in Thalassia testudinum Seagrass Meadows
Dissertation Chair: K. A. Bjorndal

Timothy Scott Johnson
Major: Plant Molecular and Cellular Biology
Dissertation: Applied Volatilomics: From Floral Fragrance to Fruit Flavor
Dissertation Chair: T. A. Colquhoun

Willis Bradley Jones
Major: Chemistry
Dissertation: Characterization of Limiting Noise in Laser-Induced Breakdown Spectroscopy
Dissertation Chair: N. Omenetto

Madison Percy Jones IV
Major: English
Dissertation: Writing, Place, Network
Dissertation Chair: S. I. Dobrin

Subhorn Khonthapagdee
Major: Mathematics
Dissertation: Models of Crowding Effect on Phytoplankton Competition for Nitrogen
Dissertation Chair: S. S. Pilyugin

Min-Kyoung Kim
Major: Design, Construction and Planning
Dissertation: Impact of Multi-Sensory Environment on Target Behaviors of Children with Autism Spectrum Disorder in South Korea: A Single-Subject Experimental Design
Dissertation Chair: N. Park

Minseong Kim
Major: Health and Human Performance
Dissertation: Corporate Social Responsibility as a Determinant of Brand Development in the Foodservice Industry
Dissertation Chair: S. O. Stepchenkova

Stephen Sean Kirkman
Major: Computer Engineering
Dissertation: Trust Framework for the Cloud Using a Model of Trust, Data Movement Policies, and Decentralization Using Blockchain Technology
Dissertation Chair: R. E. Newman

Faris Rashad Kronfli
Major: Psychology
Dissertation: Evaluating Preference for and Reinforcing Efficacy of Fruits and Vegetables Compared with Salty and Sweet Foods
Dissertation Chair: T. R. Vollmer

Justin Joseph Kurian
Major: Medical Sciences—Biochemistry and Molecular Biology
Dissertation: Identification and Characterization of Parvovirus Proteolytic Activity
Dissertation Chair: R. McKenna
Dissertation Co-chair: M. Agbandje-McKenna
Hyok-Je Kwon  
Major:  Design, Construction and Planning  
Dissertation: The Impact of Neighborhood Environment on Aging in Place  
Dissertation Chair: R. L. Steiner

Shannon R. Lalor  
Major: History  
Dissertation Chair: I. L. Altman

Tian Lan  
Major: Chemical Engineering  
Dissertation: Cellular Dynamics Properties in Bioimages Analysis  
Dissertation Chair: Y. Tseng

Nelmarie Landrau Giovannetti  
Major: Veterinary Medical Sciences  
Dissertation: Detection and Characterization of Emerging Pathogens in Stranded Cetaceans  
Dissertation Chair: T. B. Waltzek

Jessica Ann Laskowski  
Major: Wildlife Ecology and Conservation  
Dissertation: Effects of Animal Traits and Environmental Conditions on Animal Patch Choice and Foraging Behavior  
Dissertation Chair: R. A. McCleery

Scott R. Latimer  
Major: Plant Molecular and Cellular Biology  
Dissertation: Elucidation of Biosynthetic Genes and Connections to the Metabolism of Plant Terpenoid Quinones  
Dissertation Chair: G. J. Basset

Nathan Ryan Lawres  
Major: Anthropology  
Dissertation: Engaging the Monumental through the Ontological: The Belle Glade Monumental Landscape of South Florida  
Dissertation Chair: W. H. Marquardt

Ah-Ram Lee  
Major: Mass Communication  
Dissertation: The Effects of Technology-Mediated Communications on Elderly-Related Campaigns: The Interplay of Perceived Probability, Construal Level, and Message Appeal  
Dissertation Chair: L. L. Hon

Weixuan Li  
Major: Mechanical Engineering  
Dissertation: A Concurrent Atomistic-Continuum Study of Phonon Transport and Dislocation Dynamics on Mesoscale Materials  
Dissertation Chair: Y. Chen

Yan Li  
Major: Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy  
Dissertation: Epidemiology and Safety of Skeletal Muscle Relaxant and Concomitant Opioid or Psychotropic Medication Use  
Dissertation Chair: A. G. Winterstein

Ziming Li  
Major: Design, Construction and Planning  
Dissertation: Understanding Informality and Planning for Safe and Inclusive Urban Spaces: A Case Study of Slums in Patna, India  
Dissertation Chair: A. Alakshendra

Yan Liao  
Major: Soil and Water Sciences  
Minor: Urban and Regional Planning  
Dissertation: Capture Hydrology and Carbon Dynamics of Everglades through Earth System Models  
Dissertation Chair: S. Gerber
Ji Liu  
Major: Chemistry  
Dissertation: Enantioselective Synthesis of StackPhos and Its Application in Transition Metal Catalysis and Reagent Development for Iterative Glycosylation  
Dissertation Chair: A. Aponick

Lorena Lopez  
Major: Entomology and Nematology  
Dissertation: Development and Application of Integrated Pest Management Strategies to Manage Key Arthropod Pests and Beneficials in Organic Zucchini Squash  
Dissertation Chair: O. E. Liburd

Mark Preston Sumcad Lopez  
Major: Curriculum and Instruction  
Dissertation: Culturally and Linguistically Responsive Teaching: Teachers’ Practices with English Learners in Rural Elementary Classroom Settings  
Dissertation Chair: M. R. Coady

Craig A. Machado  
Major: Chemistry  
Dissertation: Self-Assembly of Stimuli-Responsive Block Copolymers  
Dissertation Chair: D. A. Savin

Ginessa Jean Mahar  
Major: Anthropology  
Dissertation: The Practice of Fishing: Investigating the Sociality of Mass-Capture Fishing along the North Florida Gulf Coast  
Dissertation Chair: N. J. Wallis

Allen R. Majewski  
Major: Physics  
Dissertation: Density Functional Theory Calculations of Temperature Dependent NQR Parameters in Solid Crystalline Materials  
Dissertation Chair: N. S. Sullivan

Rachna Hiren Manek  
Major: Medical Sciences—Physiology and Pharmacology  
Dissertation: Molecular Mechanisms in Spinocerebellar Ataxia Type 1  
Dissertation Chair: E. Rodriguez-Lebron

Sarah Grace Martner  
Major: Psychology  
Dissertation: Technology-Based Assessment of Smoking and Vaping  
Dissertation Chair: J. Dallery

Elizabeth Anne Matthews  
Major: Human-Centered Computing  
Dissertation: A Study and Verification of Techniques for Measuring Enjoyment in Video Games Containing Procedural Generation  
Dissertation Chair: J. E. Gilbert

Lily Thane Maynard  
Major: Interdisciplinary Ecology  
Dissertation Chair: S. Jacobson  
Dissertation Co-chair: M. C. Monroe

Kevin T. McCullough  
Major: Medical Sciences—Genetics  
Dissertation: Developing a Treatment for Autosomal Dominant Cone Rod Dystrophy 6 Using CRISPR/Cas9 via AAV  
Dissertation Chair: S. E. Boye
Antionette M. McFarlane  
**Major:** Sociology  
Dissertation: "Black Men and Women Are Not Raised to Love Each Other": The Perspectives of Black College Students regarding Dating Violence  
Dissertation Chair: C. L. Shehan

Christina M. McGrath Fair  
**Major:** Counseling and Counselor Education  
Dissertation: College Freshman Women's Perspective of Campus Sexual Culture: A Photo-Elicitation Study  
Dissertation Chair: S. L. Smith

Bethany L. McGregor  
**Major:** Entomology and Nematology  
Dissertation: Ecology of Culicoides Biting Midges and Their Role as Vectors of Epizootic Hemorrhagic Disease Virus on Florida Big Game Preserves  
Dissertation Chair: N. D. Burkett-Cadena

Miles Derrick Medina  
**Major:** Agricultural and Biological Engineering  
Dissertation: Inferring Deterministic Nonlinear Interactions in Complex Ecohydrological Systems  
Dissertation Chair: R. G. Huffaker

Joan Marie Meiners  
**Major:** Interdisciplinary Ecology  
Dissertation: Data Dynamics of Bee Biodiversity: Understanding Native Bee Ecology  
Dissertation Chair: T. K. Frazer

Kannan Menon  
**Major:** Biomedical Engineering  
Dissertation: Design of an Efficient Framework to Improve the Outcomes and Usability of a Clinical Diffusion MRI Protocol  
Dissertation Chair: J. R. Forder  
Dissertation Co-chair: S. J. Blackband

Justin J. Millar  
**Major:** Forest Resources and Conservation  
Dissertation: Development of Novel Statistical Methods and Decision Support Tools for the Management of Malaria in Western Africa  
Dissertation Chair: D. Ribeiro Do Valle

Sourabh Mishra  
**Major:** Chemistry  
Dissertation: Facile Tuning of Atropisomeric P,N-Ligands Towards an Efficient Enantioselective Catalysis  
Dissertation Chair: A. Aponick

Amirhossein Moeini  
**Major:** Electrical and Computer Engineering  
Dissertation: Investigating Modulation Techniques for Four-Quadrant Grid-Tied Multilevel Converters to Achieve High Efficiency and High Dynamic Performance  
Dissertation Chair: S. Wang

Douglas A. Monroe  
**Major:** Anthropology  
Dissertation: Food Deserts, Food Insecurity, and the Community Food Movement  
Dissertation Chair: C. C. Gravlee IV

Anneloes Chantal Mook  
**Major:** Sociology  
Dissertation Chair: C. A. Overdevest
Sara A. Moore  
Major: Sociology  
Dissertation: Occupational Inequalities in Earnings Instability  
Dissertation Chair: C. W. Peek IV

Adriana Moreira Zolini  
Major: Animal Molecular and Cellular Biology  
Dissertation: Identification and Characterization of Genes and Genetic Variants Controlling Fertility and Embryo Survival in Dairy Cattle  
Dissertation Chair: P. J. Hansen

Michael D. Morrison  
Major: Microbiology and Cell Science  
Dissertation: Investigating the Effects of the Human Spaceflight Environment on Bacillus subtilis  
Dissertation Chair: W. L. Nicholson  
Dissertation Co-chair: A. Conesa Cegarra

Sarah E. Morrison-Smith  
Major: Human-Centered Computing  
Dissertation: E-Science Collaborations in the Life-Sciences: Challenges and Design Opportunities for Technology and Coordination  
Dissertation Chair: J. Ruiz

Justin Robert Mulcahy  
Major: Chemistry  
Dissertation: Growth and Reactivity of Fluorine-Mediated Faceted Anatase Titanium Dioxide Crystals for Applications in Photocatalysis  
Dissertation Chair: W. Wei

Mitch R. Murray  
Major: English  
Dissertation: The Art of Genre: The Küenstlerroman in Contemporary American Fiction  
Dissertation Chair: P. E. Wegner

Nathaniel Thomas Murray  
Major: Curriculum and Instruction  
Dissertation Chair: Z. Fang

Jennifer Karen Nelson  
Major: Classical Studies  
Dissertation: Gian Vittorio Rossi's 1637 Eudemiae libri VIII: Translated with an Introduction and Notes  
Dissertation Chair: K. Kapparis

Nicole Rachel Nissim  
Major: Medical Sciences—Neuroscience  
Dissertation: Neural Effects of Transcranial Direct Current Stimulation Paired with Cognitive Training on Working Memory  
Dissertation Chair: A. J. Woods

Claribel Nuñez  
Major: Chemistry  
Dissertation: A Functional Azasugar Biosynthetic Cluster from Chitinophaga pinensis  
Dissertation Chair: N. A. Horenstein

Christopher S. O'Bryan  
Major: Mechanical Engineering  
Dissertation: Aqueous and Organic Microgels for Soft Matter Manufacturing  
Dissertation Chair: T. E. Angelini

Enrico Opri  
Major: Biomedical Engineering  
Dissertation: Cortico-Thalamic Neurophysiology and Applications in Humans Affected by Essential Tremor  
Dissertation Chair: A. Gunduz
Akanksha Pandey
Major: Zoology
Dissertation: Exploring Complex Phylogenomic Problems Using Protein Structure Based Models
Dissertation Chair: E. L. Braun

Venkata Raghu Tej Pantangi
Major: Mathematics
Dissertation: Smith and Critical Groups of Graphs
Dissertation Chair: P. K. Sin

Mukesh Pappoppula
Major: Chemistry
Dissertation: Enantioselective Dearomative Alkynylation of Nitrogen Heterocycles
Dissertation Chair: A. Aponick

Matthew Richard Peace
Major: Curriculum and Instruction
Dissertation: Measuring Student Engagement and Achievement in Online College Mathematics Classes
Dissertation Chair: T. L. Adams

Andres Alfredo Pech Cervantes
Major: Animal Sciences
Dissertation: Use of Expansins and Fibrolytic Enzymes to Improve Fiber Digestion in Ruminant Feeds
Dissertation Chair: A. T. Adesogan
Dissertation Co-chair: D. Vyas

Cory James Penca
Major: Entomology and Nematology
Dissertation: The Catfacing Pest Complex in Florida Peaches and the Use of Pyriproxyfen for Diapause Interference and Parasitoid Rearing
Dissertation Chair: A. C. Hodges

Katherine Nicole Peters
Major: English
Dissertation: Disruptive Geographies: Trauma, Memory, and the Spatializing Discourses of Travel
Dissertation Chair: J. W. Page

Douglas T. Pfeffer
Major: Mathematics
Dissertation: Szegö and Widom Theorems for Finite-Codimensional Subalgebras of a Class of Uniform Algebras
Dissertation Chair: M. T. Jury

John M. Pfeiffer III
Major: Zoology
Dissertation Chair: L. M. Page

Carlos Raul Pitta Arcos
Major: Food and Resource Economics
Dissertation: Essays on the Economic Impacts of Huanglongbing on Florida’s Citrus Industry
Dissertation Chair: R. N. Weldon

Francesco Pittaluga
Major: Electrical and Computer Engineering
Dissertation: Privacy-Preserving Computational Cameras
Dissertation Chair: S. J. Koppal

Nikea Chanel Pittman
Major: Medical Sciences—Biochemistry and Molecular Biology
Dissertation: Structure and Function Investigation of Anti-Tumor Paroviruses
Dissertation Chair: M. Agbandje-McKenna
Anthony Francis Pivarunas  
Major: Geology  
Dissertation: Space and Time: Using Paleomagnetism, Geochronology and Numerical Methods to Create and Assess Spatiotemporal Geological Relationships through Earth History  
Dissertation Chair: J. G. Meert

Eliana Maria Pizarro  
Major: Psychology  
Dissertation: Evaluation of Multiple Schedules following Functional Communication Training  
Dissertation Chair: T. R. Vollmer

Nicholas Joseph Potter  
Major: Medical Sciences—Medical Physics  
Dissertation: Feasibility Study of the Flattening Filter Removal Design for Conventional Treatments Using a Linear Accelerator  
Dissertation Chair: B. Lu  
Dissertation Co-chair: D. R. Gilland

Mahmoud Pourmehrab  
Major: Civil Engineering  
Dissertation: Optimizing Signalized Intersections Performance under Conventional and Automated Vehicles Traffic  
Dissertation Chair: A. Elefteriadou

Stephen M. Pridgen  
Major: Sociology  
Dissertation: Cultural Cognition and Wisdom as Strategies to Combat Anti-Intellectualism in Higher Education  
Dissertation Chair: M. Ardelt

Candice Marie Prince  
Major: Horticultural Sciences—Environmental Horticulture  
Dissertation: Influence of Environmental Factors on Growth and Management of Invasive Florida Grasses  
Dissertation Chair: G. E. MacDonald

Lourdes Rebeca Ptschelinzew  
Major: Design, Construction and Planning  
Dissertation: Quality Performance Evaluation of Lump Sum Contracting for Florida Highway Construction Projects  
Dissertation Chair: R. E. Minchin Jr.

Justin B. Quinn  
Major: Anthropology  
Dissertation: Right to the Railroad: Publics and the Promise of High-Speed Rail in Contemporary México  
Dissertation Chair: R. B. Kernaghan

Anthony W. Raborn  
Major: Research and Evaluation Methodology  
Minor: Statistics  
Dissertation: Resampling Techniques for Model Selection with Ordered Polytomous Scales  
Dissertation Chair: A. C. Manley

Kelly Ann Racette  
Major: Agronomy  
Dissertation: Assessing Transgenerational Stress Memory Induced by Water-Saving Irrigation Management in Peanut (Arachis hypogaea L.)  
Dissertation Chair: B. Tillman  
Dissertation Co-chair: D. L. Rowland

Levy G. Randolph II  
Major: Agricultural Education and Communication  
Dissertation: Farmers Sharing Their Stories: A Comparison between Analytical and Narrative Persuasion on Views about Food Safety Practices  
Dissertation Chair: R. W. Telg
Liz Redford  
**Major:** Psychology  
Dissertation: Motivational Antecedents of Retribution  
Dissertation Chair: K. Ratliff

Kristina Patricia Riemer  
**Major:** Wildlife Ecology and Conservation  
Dissertation: How Changing Temperature Affects Body Size and Metabolic Rate of Animal Species  
Dissertation Chair: E. P. White

Camila Rodrigues  
**Major:** Nutritional Sciences  
Dissertation: The Effect of Sulfur-Containing Compounds and Hydrogen Sulfide in the Modulation of the Immune Response  
Dissertation Chair: S. S. Percival

Katie L. Rogers  
**Major:** Horticultural Sciences  
Dissertation: Characterization and Induction of Precocious Flowering in Citrus  
Dissertation Chair: J. X. Chaparro

Tiffany Myra Rogers-Randolph  
**Major:** Agricultural Education and Communication  
Dissertation: Telling the Story of American Agriculture: State FFA Officers Engagement in Online Agricultural Communications  
Dissertation Chair: L. K. Lundy

Erica P. Ross  
**Major:** Fisheries and Aquatic Sciences  
Dissertation: The Effects of Environmental Change and Pathogen Specificity on the Chemosensory Ecology of *Panulirus argus*: Refining Fundamental Tools and Implementing New Technology  
Dissertation Chair: D. C. Behringer Jr.

Courtney A. Rouse  
**Major:** Mechanical Engineering  
Dissertation: A Switched Systems Approach to Human-Machine Interaction  
Dissertation Chair: W. E. Dixon

Katie Marisa Rubin  
**Major:** Anthropology  
Dissertation: The Adsorption of Toxic Substances in the Human Skeleton: Forensic and Humanitarian Applications  
Dissertation Chair: J. Krigbaum  
Dissertation Co-chair: B. A. Goldberger

Zilfina Rubio Ames  
**Major:** Horticultural Sciences  
Dissertation: The 'Ideal Peach' and the Role of Nitrogen Fertilization in the Development of Peach Postharvest Attributes  
Dissertation Chair: J. K. Brecht  
Dissertation Co-chair: M. A. Olmstead

Arthur B. Rudolph  
**Major:** Zoology  
Dissertation: Ecological and Evolutionary Dynamics of Flocculation in *Saccharomyces cerevisiae*  
Dissertation Chair: C. M. St. Mary

Arezou Sadoughi  
**Major:** Design, Construction and Planning  
Dissertation: Incorporation of Indoor Air Quality in Multi-Family Affordable Housing: A Study on State Program Criteria and Building Design Construction Processes  
Dissertation Chair: S. Ahrentzen  
Dissertation Co-chair: C. J. Kibert
Debalina Saha  
Major: Horticultural Sciences—Environmental Horticulture  
Dissertation: Influence of Mulch Chemical and Physical Properties on Preemergence Herbicide Interactions and Weed Control  
Dissertation Chair: S. C. Marble  
Dissertation Co-chair: H. E. Pérez

Jorge Sebastian Salinas  
Major: Mechanical Engineering  
Dissertation: Ambient Fluid Entrainment in Turbidity Currents  
Dissertation Chair: S. Balachandar  
Dissertation Co-chair: T. L. Jackson

Cassia Santos Camillo  
Major: Wildlife Ecology and Conservation  
Dissertation: Reproductive Ecology of Six-Tubercled Amazon River Turtle in Central Amazon, Brazil  
Dissertation Chair: S. A. Johnson

Anne C. Saville  
Major: Forest Resources and Conservation  
Dissertation: Seeking Justice: Critical Environmental Justice, Environmental Health, and Black Women Farmworker Activism  
Dissertation Chair: A. E. Adams

Walter Nolen Scaife  
Major: Computer Science  
Dissertation: Designing Robust Defenses for Modern Payment Systems  
Dissertation Chair: P. Traynor  
Dissertation Co-chair: T. Shrimpton

Louis Alan Searcy  
Major: Chemistry  
Dissertation: Innovations in Mass Spectrometry Imaging for Metabolomics  
Dissertation Chair: R. A. Yost

Rodney Sebastian  
Major: Religion  
Dissertation: Cultural Fusion in a Religious Dance Drama: Building the Sacred Body in the Manipuri Rāslīlas  
Dissertation Chair: V. R. Narayanan

Mirsada Serdarevic  
Major: Epidemiology  
Dissertation: Risk Factors for Opioid Use Patterns Assessed through a Community Engagement Program in North Central Florida  
Dissertation Chair: L. B. Cottler

Bicky Shakya  
Major: Electrical and Computer Engineering  
Dissertation: Techniques for Securing Hardware Intellectual Property throughout the Electronics Supply Chain  
Dissertation Chair: D. J. Forte

Michael H. Shang  
Major: Medical Sciences—Medical Physics  
Dissertation: A Novel Laser Interstitial Thermal Therapy Treatment Planning System to Optimize Laser Ablation Delivery to Brain Targets  
Dissertation Chair: F. J. Bova

Jie Shao  
Major: Pharmaceutical Sciences—Pharmacy  
Minor: Statistics  
Dissertation: Understanding Pulmonary Targeting of Inhaled Corticosteroids  
Dissertation Chair: G. Hochhaus
Enrijeta Shino
Major: Political Science
Dissertation: Survey Mode Effects: Reshaping Perceptions of the Electorate
Dissertation Chair: M. D. Martinez
Dissertation Co-chair: D. A. Smith

Gabriel Nicholas Short
Major: Chemistry
Dissertation: Expanding the Properties of Biorenewable Polymers with Bio-Cycles
Dissertation Chair: S. A. Miller

Holly J. Shugart
Major: Entomology and Nematology
Dissertation: Probing Behavior and Host Preference in the Asian Citrus Psyllid, Diaphorina citri (Hemiptera: Liviidae)
Dissertation Chair: M. E. Rogers

Matthew F. Simmons
Major: History
Dissertation: Revolt in the Fields: Building the Southern Tenant Farmers’ Union in the Old Southwest
Dissertation Chair: P. A. Ortiz

Skyler M. Simnitt
Major: Food and Resource Economics
Dissertation: Three Essays on the H-2A Temporary Agricultural Workers Program
Dissertation Chair: D. Farnsworth
Dissertation Co-chair: G. Onel

Randal Anthony Singer
Major: Interdisciplinary Ecology
Dissertation: An Interdisciplinary Approach to Increasing Biodiversity Collections Sustainability Using Computational and Survey Methods
Dissertation Chair: L. M. Page

J. Darby Smith
Major: Mathematics
Dissertation: An Exploration and Analysis of Molecular Motor Protein Models
Dissertation Chair: S. McKinley
Dissertation Co-chair: J. E. Keesling

Madison B. Smith
Major: Nursing Sciences
Dissertation: Feasibility and Effects of a Web- and Mobile-Based Training Intervention to Support Adolescents and Young Adults with Type 1 Diabetes Using a Continuous Glucose Monitor
Dissertation Chair: G. M. Keenan

Geoffrey H. Smith Jr.
Major: Fisheries and Aquatic Sciences
Dissertation: Impacts of a Non-Native Piscivore, The Pike Killifish, on Juvenile Common Snook
Dissertation Chair: D. J. Murie

Yifan Song
Major: Business Administration—Management
Dissertation: An Identity-Based Approach to Understanding Customer Mistreatment Experience
Dissertation Chair: M. Wang

Kelsey Lynn Stadnikia
Major: Nuclear Engineering Sciences
Dissertation: Data Fusion of a Vision Aided Radiological Detection System for Nuclear Security Applications
Dissertation Chair: P. Enqvist

Daniel Charles Stewart
Major: Biomedical Engineering
Dissertation: Clinical and Cellular Causes of Tissue Stiffening through Fibrosis
Dissertation Chair: C. S. Simmons
Joshua Michael Stewart
Major: Biomedical Engineering
Dissertation: A Dual-Sized Microparticle System for Inducing Immune Tolerance in Autoimmunity
Dissertation Chair: B. G. Keselowsky

Bradley Christian Stockard
Major: Pharmaceutical Sciences—Clinical Pharmaceutical Sciences
Dissertation: Applying Global and Targeted Metabolomics in Pediatric Acute Myeloid Leukemia to Identify Metabolic Differences Associated with Patient Characteristics and Treatment Outcomes
Dissertation Chair: J. K. Lamba

Hai Su
Major: Biomedical Engineering
Dissertation: Nucleus Detection, Segmentation and Semi-supervised Classification in Pathology Images
Dissertation Chair: L. Yang

Xiaoming Su
Major: Chemistry
Dissertation: Design and Synthesis of Tungsten oxo Complexes as Single Source Precursors for Chemical Vapor Deposition of Tungsten Oxide Films
Dissertation Chair: L. A. McElwee-White

Stephanie Nicole Suarez
Major: Plant Pathology
Dissertation: Steps towards an Integrated Approach to Managing Impatiens Downy Mildew
Dissertation Chair: A. J. Palmateer
Dissertation Co-chair: G. S. Ali

Ruimin Sun
Major: Electrical and Computer Engineering
Dissertation: Leveraging Uncertainty to Improve System Security and Reliability
Dissertation Chair: D. Oliveira

Wei Sun
Major: Civil Engineering
Dissertation: Freeway Network Travel Time Reliability Analysis Methodology and Software Tool Development
Dissertation Chair: S. S. Washburn

Daisuke Takahashi
Major: Chemistry
Dissertation: Manganese/Lanthanide Heterometallic Cage Chemistry: A Molecular Approach to Perovskite Manganites
Dissertation Chair: G. Christou

Gordon N. Tam
Major: Physics
Dissertation: 22 K Superconductivity Induced Post-Growth via Reactive Gases
Dissertation Chair: G. R. Stewart

Zahra Tayebi
Major: Food and Resource Economics
Dissertation: The Use of Panel Time Series Data in Modeling Agricultural Markets
Dissertation Chair: G. Onel

Adam G. Taylor
Major: Civil Engineering
Dissertation: Application of Potentials to the Analysis of the Static Equilibrium of Shallow Foundations
Dissertation Chair: J. H. Chung

Larry Tesler
Major: Chemistry
Dissertation: High-Resolution Infrared Ion Spectroscopy of Biomolecules via Cryogenic N2 Tagging
Dissertation Chair: N. C. Polfer
Dissertation Co-chair: R. A. Yost
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

Sanethia Velma Thomas  
Major: Human-Centered Computing  
Dissertation Chair: J. E. Gilbert

Caitlin M. Tibbetts  
Major: Civil Engineering  
Dissertation Chair: C. C. Ferraro

Anton Alexey Titov  
Major: Medical Sciences—Genetics  
Dissertation: Metabolic Defects of CD4+ T Cells in Systemic Lupus Erythematosus  
Dissertation Chair: L. M. Morel

Leslie Elise Todd  
Major: Art History  
Dissertation: Reconciling Colonial Contradictions: The Multiple Roles of Sculpture in Eighteenth-Century Quito  
Dissertation Chair: M. Stanfield-Mazzi

John T. Tokarski III  
Major: Chemistry  
Dissertation: Optically Pumped Nuclear Magnetic Resonance Investigation of Strain and Doping Effects in Gallium Arsenide  
Dissertation Chair: C. R. Bowers

Amanda Jean Townsend  
Major: Astronomy  
Dissertation: Big Science with Small Telescopes: Novel Optical Instrumentation and Compact Object Observations  
Dissertation Chair: S. S. Eikenberry

Amanda S. Tritinger  
Major: Coastal and Oceanographic Engineering  
Dissertation: The Influence of Vertical Current Structure in the Nearshore Region on Open-Coast Wind-Driven Surges  
Dissertation Chair: D. Resio  
Dissertation Co-chair: M. Olabarrieta Lizaso

Matthias A. Trujillo-Torres  
Major: Chemical Engineering  
Dissertation Chair: K. J. Ziegler  
Dissertation Co-chair: S. Vasenkov

Min-Hsuan Tu  
Major: Business Administration—Management  
Dissertation: Salience of Leader Aspirational Self and Leader Mistreatment  
Dissertation Chair: J. Bono

Amanda Mae Uhl  
Major: Materials Science and Engineering  
Dissertation: Magnetolectric Composite Nanomaterials for the Stimulation of Neuronal Proliferation and Differentiation  
Dissertation Chair: J. Andrew

Simon Andrew Michael Underhill  
Major: Physics  
Dissertation: Intracellular Bistable Signal Transduction in Streptococcus mutans Competence Regulation  
Dissertation Chair: S. J. Hagen
Marissa Ann Valentine-King  
**Major:** Public Health  
Dissertation: Assessing and Addressing Antibiotic Resistance among Mycoplasmas Using a One Health Approach  
Dissertation Chair: M. B. Brown

Anthony Van Duzer  
**Major:** Mathematics  
Dissertation: Vertices of Rooted Trees, and Their Distance from the Closest Leaf  
Dissertation Chair: M. Bona

Jose Ignacio Varillas Perez  
**Major:** Biomedical Engineering  
Dissertation: Enumeration, Characterization, and Clinical Usage of Circulating Tumor Cells  
Dissertation Chair: Z. H. Fan

María C. Vélez-Climent  
**Major:** Plant Pathology  
Dissertation Chair: P. F. Harmon

Guner Velioglu  
**Major:** Business Administration—Finance  
Dissertation: Essays in Financial Economics and Private Information  
Dissertation Chair: C. James

Peter Vertesaljai  
**Major:** Chemistry  
Dissertation: New Reactions and Strategies Involving Knoevenagel Adducts  
Dissertation Chair: A. J. Grenning

Aaron G. Victoria  
**Major:** Anthropology  
Dissertation Chair: R. B. Kernaghan

Natasha S. Vitek  
**Major:** Zoology  
Dissertation: Patterns and Drivers of Within-Species Evolution in the Paleocene-Eocene Fossil Record of Erinaceomorpha  
Dissertation Chair: J. I. Bloch

Alicia K. Vose  
**Major:** Rehabilitation Science  
Dissertation: Mechanisms Underlying Laryngeal Vestibule Airway Protection Patterns  
Dissertation Chair: I. A. Humbert

Murali Vuyyuru  
**Major:** Agronomy  
Dissertation: Yield Decline Management in Successively Planted Sugarcane on Florida Histosols  
Dissertation Chair: H. S. Sandhu

Ahmed Mohammed Wahba  
**Major:** Food and Resource Economics  
Dissertation: Econometric Analysis of World Meat Export Markets, Egyptian Meat Import Demand, and Meat Supply in Egyptian Pre- and Post-Economic Reform  
Dissertation Chair: J. L. Seale Jr.  
Dissertation Co-chair: J. J. VanSickle

Sean-Jiun Wang  
**Major:** Physics  
Dissertation: Observation of Higgs Boson Decay to Bottom Quarks when Produced in Association with a Weak Vector Boson  
Dissertation Chair: J. Konigsberg  
Dissertation Co-chair: I. K. Furic
Wei Wang  
**Major:** Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy  
**Dissertation:** Cancer Risks and Economic Burdens in Hepatitis C Virus-Infected Patients in the Era of Direct-Acting Antivirals  
**Dissertation Chair:** H. Park

Yu Wang  
**Major:** Geography  
**Minor:** Statistics  
**Dissertation:** Evaluating the Effects of Land Surface Conditions on Rainfall Patterns of Modeled Landfalling Tropical Cyclones Using Geospatial Technologies  
**Dissertation Chair:** C. J. Matyas

Kent J. Warren  
**Major:** Mechanical Engineering  
**Dissertation:** Solar Chemical-Looping Methane Reforming over Ceria  
**Dissertation Chair:** J. Scheffe

Michael Shenming Wei  
**Major:** Chemistry  
**Dissertation:** Improving the Separation of Drug Isomers Using Chemical Modifiers in High-Field Asymmetric Waveform Ion Mobility Spectrometry  
**Dissertation Chair:** R. A. Yost

Joseph I. Whitman  
**Major:** Economics  
**Dissertation:** Essays in the Economics of Sports and Trade  
**Dissertation Chair:** J. H. Hamilton

Ryan Patrick Whittingham  
**Major:** Political Science  
**Dissertation:** Coercion or Accommodation? A Bargaining Theory Explanation of State Repression  
**Dissertation Chair:** M. H. Bernhard

Min Xiao  
**Major:** Mass Communication  
**Dissertation:** Gamification in Branded Mobile Apps: Usage Motivators and Engagement Outcomes  
**Dissertation Chair:** S. M. Chan-Olmsted

Erin Joy Yafuso  
**Major:** Horticultural Sciences—Environmental Horticulture  
**Dissertation:** The Relationship between Water and Oxygen in Plant Propagation  
**Dissertation Chair:** P. R. Fisher

Anni Yang  
**Major:** Geography  
**Minor:** Numerical Epidemiology  
**Dissertation:** Multi-Scale Modeling of Infectious Zoonoses: Exploring Two Indirectly Transmitted Pathogens in Southwestern Montana  
**Dissertation Chair:** J. K. Blackburn

Di Yang  
**Major:** Geography  
**Dissertation:** Forest Mosaics: Spatial Forest Management Patterns from Stands to Regional Scales in Southeastern U.S. Coastal Plain and Piedmont  
**Dissertation Chair:** M. W. Binford

Jiancheng Yang  
**Major:** Chemical Engineering  
**Dissertation:** Wide Band-Gap Semiconductors for High Power Electronic and Bio-Sensing Applications  
**Dissertation Chair:** F. Ren
Yajing Yang
Major: Chemistry
Dissertation: Study on Fluorescence Quenching, Aggregation and Charge Transfer Properties of Conjugated Polymers
Dissertation Chair: K. S. Schanze

Tuba Yilmaz
Major: Curriculum and Instruction
Dissertation: ‘Turkish-American Youngsters’ Experiences with Boundary Crossing within and across Multiple Discursive Spaces
Dissertation Chair: E. J. De Jong

Haitao Yu
Major: Design, Construction and Planning
Dissertation: Exploring Temporal and Spatial Ridesourcing Use and Its Relationships to Urban Built Environment
Dissertation Chair: Z. Peng

Shujian Yu
Major: Electrical and Computer Engineering
Minor: Statistics
Dissertation: The Analysis of Machine Learning Algorithms from Information Theoretic Perspective
Dissertation Chair: J. C. Principe

Carlos Andres Zambrano Vaca
Major: Horticultural Sciences
Dissertation: Determining Water Requirements for Low-Chill Peaches in Subtropical Humid Conditions
Dissertation Chair: L. Zotarelli
Dissertation Co-chair: K. W. Migliaccio

Maria Isabel Zamora Re
Major: Agricultural and Biological Engineering
Dissertation: Irrigation and Nitrogen Best Management Practices in Corn Production
Dissertation Chair: M. D. Dukes

Huan Zhang
Major: Electrical and Computer Engineering
Dissertation: Conducted EMI Mitigation Associated with Capacitive and Inductive Coupling of the Magnetic Components in Power Electronics
Dissertation Chair: S. Wang

Peter L. Zhang
Major: Aerospace Engineering
Dissertation: Characterization of Digitized Heat Transfer, Moving Contact Line Vorticity, and the Moving Contact Line Force
Dissertation Chair: K. Mohseni

Yunlu Zhang
Major: Chemistry
Dissertation Chair: W. Wei

Ye Zhou
Major: Medical Sciences—Neuroscience
Dissertation: PMP22 Modulates Cholesterol Trafficking and Lipid Metabolism: The Implication for PMP22-Associated Peripheral Neuropathies
Dissertation Chair: L. Notterpek

Yun Zhu
Major: Epidemiology
Dissertation: Molecular Mechanisms Underlying Depression: A Multi-omics Approach
Dissertation Chair: J. Zhao

David Paul Zwick
Major: Mechanical Engineering
Dissertation: Scalable Highly-Resolved Euler-Lagrange Multiphase Flow Simulation with Applications to Shock Tubes
Dissertation Chair: S. Balachandar
DOCTOR OF EDUCATION

Sharon Patricia Lutz
Major: Special Education
Dissertation: The Role of Learning Specialists in NCAA Division I Institutions
Dissertation Chair: H. B. Lane

Susan E. Macchia
Major: Educational Leadership
Dissertation: Analysis of a Public Policy as an Intervention Strategy
Dissertation Chair: R. C. Wood
Dissertation Co-chair: L. B. Eldridge

Cynthia Zainab Okoe
Major: Higher Education Administration
Dissertation: Examining the Effects of Florida's Community College Baccalaureate Legislation on Baccalaureate Production in the State University System of Florida
Dissertation Chair: D. A. Kramer

Joseph James Pickering
Major: Higher Education Administration
Dissertation: The Impact of Concealed Carry Legislation on Texas Universities and Colleges Campus Leaders and Law Enforcement Perspectives
Dissertation Chair: K. D. Peck Parrott

Kenneth Allen Savage
Major: Educational Leadership
Dissertation: The Price of Excellence: Student Learning Outcomes from Alternative Compensation Models that Feature Substantial Starting Salaries for Teachers
Dissertation Chair: R. C. Wood

Virginia L. Stewart
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

Hyuna Bae
Kjersten Branscome
Julia Cathryn D'Amico
Jaivikas Hiriyanna Gowda
Leslie Fisch Halpern
Debra L. Hildebrand
Megan Geneva Hill
Jonathan E. Hirst
Heather L. Holdridge-Collins
Traci K. Long
John Lowe Massey
Christine McHugh Sheehan
Keri L. Oppenheimer
Cynthia Quintana
Brandie M. Smith
Mary Alise Swantek
Anne P. Teixeira
Mercy Melinda Vega
Rachel Ann Waite

DOCTOR OF BUSINESS ADMINISTRATION

Jared James Pressell

DOCTOR OF NURSING PRACTICE

Holly Lynn Adams
Chelsea Leigh Anglin
Ulyana Arzamasova
Erika Laine Baker
Brianna Marie Blumenstein
Joel Daniel Boling
Elenora L. Bosman
Rachel Marie Botella
Kathryn D. Braddock
Heather A. Brigance
Lourdes Juliana Britto
Shannon Kathleen Burns
Gloria Calderon
Alexandra C. Coad
Samuel W. Dunlop
Katelyn M. Einck
Ami Anne Grek
Jessica Jawidzik
Meagan Elizabeth Johnson
Katelyn Lian Lumlock Juarez
Joseph G. Kelly
Megan E. Klyczek-Lawn
Brittany Blanton Knight
Patricia C. Lewis
Sydney Nicole McInnis
Alyssa Dianne McPherson
Anjali Umesh Mhatre
Chelsea N. Michaels
Naomi Jessica Mostkoff
Anna Christine Napoli
Erica Lynne Ochoa
Marcella Patino
Sarah Holmes Peacock
Jessica Naomi Pelkowski
James Luel Poole IV
Kristina Ashley Pound Butler
Meagan Elizabeth Johnson
Katelyn Lian Lumlock Juarez
Joseph G. Kelly
Megan E. Klyczek-Lawn
Brittany Blanton Knight
Patricia C. Lewis
Sydney Nicole McInnis
Alyssa Dianne McPherson
Anjali Umesh Mhatre
Chelsea N. Michaels
Naomi Jessica Mostkoff
Anna Christine Napoli
Erica Lynne Ochoa
Marcella Patino
Sarah Holmes Peacock
Jessica Naomi Pelkowski
James Luel Poole IV
Kristina Ashley Pound Butler
Richelle Alyssa Ricer
Evany Rodriguez
Emily Rose Rogers
Corinne Marie Ryan
Leah Anne Sadler
Kelly Murphy Salinas
Abby Bertholf Sapp
Devon L. Sarvary
Hillary Lindsay Simpson
Karen Smiley
Kimberly Francis Steele
Michael Allan Thompson
Nicole A. Thompson-Bowie
Hector Ivan Torres Negron
Ariel Ashley Vulgamore
Natalie Watt
Janine Lanelle White-Williams
Anastasia J. Whitman

DOCTOR OF PHYSICAL THERAPY

Glenn Taylor Anderson
Katherine Juliana Batchelor
Devika M. Bellamy
Khushboo D. Bhakta
Jake Castrider
Christopher M. Cheek
William Travis Collins
Alexandra Nicole Colón
Ashley C. Dew
Kaitlyn R. Elliott
Kim Alexis Fasano
Christopher E. Fuller
Meredith C. Gardner
Hanna L. Gierman
Erin Marie Ginn
Joshua D. Hare
Elizabeth T. Haumschild
Ashlyn B. Hawk
Maria J. Hierholzer
Abigail R. Immerfall
Marco Antonio Italia
Camille S. Jamshidi
Chantelle Alexis Jerald
Marie A. Kamrath
Spencer E. Kasmere
Benjamin Kyle Knight
Mark J. Kunselman
Grace Ellen Kupiszewski
Amber Ellen Lanier
Aristides Luis Lima
Christopher D. Marshall
Savanna Holley McDowell
Jessica Elizabeth Oram
Kamryn Denae Pedersen-Buck
Andrea C. Peña
Noella M. Puwol
Jorge Reinaldo Ramirez
Jenae Annette Rankin
Emma Julia Regenbaum
Jacob Patrick Reidy
Caroline M. Salam
Gabriela Y. Sanchez
Taylor J. Sansone
Tania M. Schmitfranz
Katherine E. Sensale
Sarah Renee Simmons
Matthew J. Smith
Alexandra Mary Stanojev
Jeremy A. Steiner
Rachel Stephenson
Courtney E. Stone
Gillian Lee Sweet
Emily R. Tyler
Monica R. Velasco
Tyler Michael Walker
Melissa Gwen Warnock
Kathryn Shelby Wells
Rebecca A. Wheeler
Kelly C. White
Katherine A. Wills
Heebuhm E. Yang
Ariana S. Zanganeh
Kelly N. Zaprzal
Brett Spencer Zebelian

DOCTOR OF PLANT MEDICINE

Ploy Kurdmongkoltham
Ariane Burke McCorquodale
Cory James Penca
Chain of Office

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

Academic Mace

Dating back to the Middle Ages, the mace symbolizes strength and authority. The UF ceremonial mace was created for the university’s sesquicentennial celebration in 2003. The 70-inch staff features an alligator sitting atop a globe. The four pillars supporting the globe represent the four original colleges: Agriculture, Engineering, Law, and Liberal Arts. The staff is carved from cherry wood. The university’s chief marshal, who leads all academic processions, carries the mace.

Diplomas

Diplomas will be mailed to the graduate’s permanent home mailing address in July 2019.
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 crossbars 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