Commencement
THIS IS NOT AN OFFICIAL GRADUATION LIST

While every effort is made to ensure accuracy in this commencement program, printing deadlines may result in omission of some names and use of names of persons not completing graduation requirements as intended. This printed program, therefore, should not be used to determine a student’s academic or degree status. The university’s official registry for conferral of degrees is the student’s permanent academic record as reflected on the student’s transcript, maintained by the Office of the University Registrar.
Commencement
SPRING 2020
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 2020.

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
Andy Tuck  Chair
Marva Johnson  Vice Chair

Florida Board of Governors

Marshall M. Criser III  Chancellor
Richard Corcoran  Commissioner of Education
Sydney Kitson  Chair
Brian Lamb  Vice Chair

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Jack Payne, Ph.D.  Senior Vice President - Agriculture and Natural Resources
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
Antonio Farias, M.F.A.  Chief Diversity Officer and Senior Advisor to the President
Jodi Gentry, M.A.  Vice President - Human Resource Services
Amy M. Hass, J.D.  Vice President - General Counsel
Mark E. Kaplan, J.D.  Vice President - Government and Community Relations
Thomas J. Mitchell, M.S.  Vice President - Advancement
D’Andra Mull, Ph.D.  Vice President – Student Affairs
David Norton, Ph.D.  Vice President - Research
Nancy Paton, M.S.  Vice President for Strategic Communications and Marketing
Curtis Reynolds, M.B.A., M.S.E.E.  Vice President - Business Affairs

Deans of the University

R. Elaine Turner, Ph.D.  College of Agricultural and Life Sciences
Onye P. Ozuuzu, M.F.A.  College of the Arts
John Kraft, Ph.D.  Warrington College of Business
A. Isabel Garcia, D.D.S., M.P.H.  College of Dentistry
Chimay Anumba, Ph.D.  College of Design, Construction and Planning
Glenn E. Good, Ph.D.  College of Education
Cammy R. Abernathy, Ph.D.  Herbert Wertheim College of Engineering
Henry T. Frierson, Ph.D.  The Graduate School
Michael Reid, Ph.D.  College of Health and Human Performance
Nick Place, Ph.D.  IFAS Extension
Robert Gilbert, Ph.D.  IFAS Research
Leonardo Villalón, Ph.D.  International Center
Diane H. McFarlin, B.S.  College of Journalism and Communications
Laura A. Rosenbury, J.D.  Fredric G. Levin College of Law
David E. Richardson, Ph.D.  College of Liberal Arts and Sciences
Adrian Tyndall, M.D., M.P.H.  Interim, College of Medicine
Anna M. McDaniel, Ph.D., R.N.  College of Nursing
Julie A. Johnson, Pharm.D., R.N.  College of Pharmacy
Michael G. Perri, Ph.D.  College of Public Health and Health Professions
Dana Zimmel, D.V.M.  Interim, College of Veterinary Medicine
Judith C. Russell, M.S.  University Libraries
Heather White, Ph.D.  Dean of Students
Kelsey S. Aadland  
Major: Microbiology and Cell Science  
Dissertation: Conservation of Early miRNA Biogenesis in Animal and Plant Lineages  
Dissertation Chair: B. D. Kolaczkowski

Nader Farhan Abdulhameed  
Major: Materials Science and Engineering  
Dissertation: Quantitative Fractographic Analysis to Measure the Fracture Toughness of Dental Resin Composites  
Dissertation Chair: J. J. Mecholsky, Jr.

Daniel Nicholas Acton  
Major: Criminology, Law, and Society  
Dissertation: Sibling Influences: Delinquency and Victimization  
Dissertation Chair: C. L. Gibson

Stephanie M. Adams  
Major: Forest Resources and Conservation  
Dissertation: Physiological, Morphological, and Biochemical Changes in Persea Species' Response to Laurel Wilt after Paclobutrazol Treatments  
Dissertation Chair: J. A. Smith

Pedro F. Adorno Maldonado  
Major: Civil Engineering  
Dissertation: The Effects of Emerging Transportation Technologies (Time-to-Green Mobile Apps in Particular) on Drivers' Behaviors and Safety at Signalized Intersections  
Dissertation Chair: S. Srinivasan

Nihan Agaci Dogan  
Major: Curriculum and Instruction  
Dissertation: Description and Exploration of Middle School Students' Acceptance of Chromebooks: A Mixed Methods Study  
Dissertation Chair: K. M. Dawson

Natasha Marie Agramonte  
Major: Entomology and Nematology  
Dissertation: Neuroethology of Pyrethroid-Resistant Aedes aegypti: Toxicological Differences, Excito-Repellent Behaviors, and Electrophysiological Firing Response to Pyrethroid Insecticides  
Dissertation Chair: J. R. Bloomquist  
Dissertation Co-chair: U. R. Bernier

Niousha Ahmari  
Major: Medical Sciences—Physiology and Functional Genomics  
Dissertation: Targeting Peripheral and Central Immune Changes in Obesity and Hypertension through Bone Marrow Beta-Adrenergic Blockade  
Dissertation Chair: J. Zubcevic

Kawther Sahib Al Jasim  
Major: Horticultural Sciences  
Dissertation: Novel Approaches to Induce Early Flowering and Fruiting in Juvenile Citrus Hybrids and Transgenic Plants  
Dissertation Chair: J. W. Grosser

Mohammed Al Meqdad  
Major: Linguistics  
Dissertation: Discourse and Identity among Syrian Refugees: A Qualitative Analysis of Institutional and Refugee Discourse  
Dissertation Chair: D. Boxer
Mimonah Qasim Al Qathrady
Major: Computer Engineering
Dissertation: Data-Driven Indoor Mobility Analysis, Modeling, and Encounter Classification for IoT Applications
Dissertation Chair: A. A. Helmy

Yasser Thakkar Albogami
Major: Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy
Dissertation: Safety and Effectiveness of Pharmacological Treatments in Patients with Chronic Lower Respiratory Disease and Type II Diabetes
Dissertation Chair: A. G. Winterstein

Bahareh Alipanahi Ramandi
Major: Computer Science
Dissertation: Variants and Applications of Colored de Bruijn Graphs
Dissertation Chair: C. A. Boucher

Abdulrahman Salah Almithn
Major: Chemical Engineering
Dissertation: C-X Bond Hydrogenolysis on Transition Metals: Effects of High CO-Adsorbates Coverages, Catalyst Model, and Phosphorus Incorporation
Dissertation Chair: D. Hibbitts

Mohammad Hasan Alshaer
Major: Pharmaceutical Sciences—Clinical Pharmaceutical Sciences
Dissertation: Therapeutic Optimization of Antibacterial Agents
Dissertation Chair: C. A. Peloquin

Valeria Alterman
Major: Business Administration—Management
Dissertation: Can Specialized Attention from HR Backfire? The Role of Older Worker-Specific HR Practices on the Retention of Older Workers
Dissertation Chair: M. Wang

Zuhair Abdulmohsin Al-Yousef
Major: Chemical Engineering
Dissertation: Improved Control of Direct Methanol Fuel Cells via Multivariable Methods
Dissertation Chair: O. D. Crisalle

Icaro Alzuru Cortez
Major: Computer Engineering
Dissertation: Human-Machine Extraction of Information from Biological Collections
Dissertation Chair: J. A. Fortes

Prabha Rajini Amarasinghe
Major: Botany
Dissertation: Evolution of Memecylon (Melastomataceae) in the Old World Tropics at Multiple Scales
Dissertation Chair: N. Cellinese

Kelsey Andersen Onofre
Major: Plant Pathology
Dissertation: Modeling Epidemics in Seed Systems to Inform Intervention
Dissertation Chair: K. A. Garrett

Jesse D. Anderson
Major: Design, Construction and Planning
Dissertation: The Political Efficacy of Informal Settlements in Patna, Bihar
Dissertation Chair: A. Alakshendra

Altan Apar
Major: Political Science
Dissertation: Competitiveness as a Security Dispositif in the International System
Dissertation Chair: I. Oren
Dissertation Co-chair: A. A. Hozic
Stephen Michael Apple  
Major: Aerospace Engineering  
Dissertation: Design and Performance Characterization of a New LISA-Like Gravitational Reference Sensor Test Bed Using the UF Torsion Pendulum  
Dissertation Chair: J. Conklin

Lucas Hunter Armitage  
Major: Medical Sciences—Immunology and Microbiology  
Dissertation: Regulation of Innate Immune Cell Function and Dysfunction by PTPN22 Allotypes  
Dissertation Chair: C. E. Mathews

Vadim Da Costa Arsky Filho  
Major: Music Education  
Dissertation: A Comparison of Brazilian and United States First Year Music Majors’ Pre-College Musical Experiences and Musical Self-Concept  
Dissertation Chair: W. Bauer

Ibukun Timothy Ayankojo  
Major: Soil and Water Sciences  
Minor: Agronomy  
Dissertation Chair: K. T. Morgan

Ori R. Baber  
Major: Health and Human Performance  
Dissertation: A New Spatial-Interaction Approach to Evaluate Neighborhood-Level Equity in Access to Opportunities for Physical Activity  
Dissertation Chair: H. J. Gibson

Grant Alexander Backlund  
Major: Statistics  
Dissertation: Analysis of Markov Chain Monte Carlo Algorithms for Bayesian Regression Models with Heavy-Tailed and Skewed Error Distributions  
Dissertation Chair: J. P. Hobert

Kamaldeep Kaur Bansal  
Major: Plant Pathology  
Dissertation: Comparative Genomics and Transcriptomics of the Pollen-Mimicking Floral Infection of Blueberry by Monilinia vaccinii-corymbosi  
Dissertation Chair: J. A. Rollins

Danielle Barbe  
Major: Health and Human Performance  
Minor: Mass Communication  
Dissertation: Developing a Crisis Communication Model for the Tourism Industry: The Effects of Source, Media, and Time  
Dissertation Chair: L. Pennington

Molly Anne Barlow  
Major: Psychology  
Dissertation: Effects of Economic Context on the Discounting of Delayed and Probabilistic Gains and Losses  
Dissertation Chair: J. Dallery

Brooke E. Barnes  
Major: Chemistry  
Dissertation: The Effect of Peptide Specific Interactions on Polymer Self-Assembly  
Dissertation Chair: B. S. Sumerlin

Colin Sheldon Barquist  
Major: Physics  
Dissertation: Design, Development, Fabrication, and Measurement of Micro-Electromechanical Oscillators for the Study of Quantum Turbulence and Other Superfluid Properties  
Dissertation Chair: Y. Lee
Adam R. Benjamin  
Major: Forest Resources and Conservation  
Dissertation: Improving Structure from Motion Photogrammetry Mapping Operations through Efficiency and Accuracy Analysis  
Dissertation Chair: H. H. Hochmair

Ann Bernert  
Major: Plant Molecular and Cellular Biology  
Dissertation: Discovery of RquA Function and Prospects for Engineering Quinone Metabolism in Bacteria, Yeast, and Plants  
Dissertation Chair: G. J. Basset

Rajendra Rana Bhat  
Major: Electrical and Computer Engineering  
Dissertation: Deep Semi-Temporal Learning and Application in Genomics and Precision Medicine  
Dissertation Chair: D. Wu

Krishna Bhattarai  
Major: Horticultural Sciences—Environmental Horticulture  
Dissertation: Genetic Mapping and Next-Generation Sequencing to Identify Quantitative Trait Loci and Candidate Genes for Powdery Mildew Resistance in Gerbera (Gerbera hybrida)  
Dissertation Chair: Z. Deng  
Dissertation Co-chair: D. G. Clark

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

Gregory Harlan Bontrager  
Major: Linguistics  
Dissertation: Effect of Orthographic Depth on Reading in English and Spanish  
Dissertation Chair: C. R. Wiltshire

Wesley W. Boone IV  
Major: Wildlife Ecology and Conservation  
Dissertation: Ecology and Population Genetics of Marsh Rice Rats and Hispid Cotton Rats on Near-Shore Islands  
Dissertation Chair: R. A. McCleery  
Dissertation Co-chair: J. D. Austin

Thiago Borba Onofre  
Major: Agricultural and Biological Engineering  
Dissertation: Development of an Internet of Things Data Collection Platform for Agricultural Applications  
Dissertation Chair: C. W. Fraisse  
Dissertation Co-chair: J. Y. McNair

Khlood Saleh Bubshait  
Major: Nursing Sciences  
Dissertation: Maternal Voice as a Regulator of Neural Development in Premature Infants  
Dissertation Chair: C. A. Krueger

Chesya Burke  
Major: English  
Dissertation: #Hashtag, Black Girl Magic: Reimagining Black Women Fluid Artists within the Spirituality of Womanism  
Dissertation Chair: D. W. King

Katie Ann Butera  
Major: Rehabilitation Science  
Dissertation Chair: S. George  
Dissertation Co-chair: E. J. Fox
John Marcus Cain
Major: Chemistry
Dissertation: Mechanisms for Emergent Behavior Derived from Interface Strain in Nanoscale Spin Transition Heterostructures
Dissertation Chair: D. R. Talham

Salvatore John Calise III
Major: Medical Sciences—Molecular Cell Biology
Dissertation: The Role of Inosine Monophosphate Dehydrogenase Filaments in Cell Biology
Dissertation Chair: E. K. Chan

Christina M. Callicott
Major: Anthropology
Dissertation: Music, Plants, and Medicine: Lamista Shamanism in the Age of Internationalization
Dissertation Chair: C. M. Tucker

Will Gaston Carden
Major: Chemistry
Dissertation: Ligand Effects in Gold Precursors for Focused Electron Beam Induced Deposition
Dissertation Chair: L. A. McElwee-White

Sarah Beth Carey
Major: Botany
Dissertation: Sex-Biased Evolutionary Processes in Mosses
Dissertation Chair: S. McDaniel

Stephanie T. Carnell
Major: Human-Centered Computing
Dissertation: Using Virtual Human Communication Skills Learning Scenarios to Study and Affect Learner Message Production
Dissertation Chair: B. Lok

Keisha Yarie Castillo-Torres
Major: Electrical and Computer Engineering
Dissertation: Magnetic Isolation of Fecal Indicating Bacteria Using Bio-Functionalized Magnetic Microdiscs for Water Quality Monitoring
Dissertation Chair: D. P. Arnold

Madison Ward Cates
Major: History
Dissertation Chair: W. Link

Nicholas David Cavallaro
Major: Agricultural and Biological Engineering
Dissertation: Laser Carbonized Biosensors for Point of Use Detection of Listeria monocytogenes
Dissertation Chair: E. McLamore

Elizabeth Cerejido
Major: Art History
Dissertation Chair: M. Stanfield-Mazzi
Dissertation Co-chair: K. Cabanas

Aokun Chen
Major: Electrical and Computer Engineering
Dissertation: On the Feasibility and Temporal Consistency of Personalized, Human-Centric Computer Usage Profiling for Continuous Authentication
Dissertation Chair: D. Oliveira
Amani Cheniour  
Major: *Materials Science and Engineering*  
Dissertation: Study of U$_3$Si$_2$ Fuel Microstructure Behavior under LWR Conditions Using the Phase Field Method  
Dissertation Chair: M. Tonks

Andreina Chiu Lam  
Major: *Chemical Engineering*  
Dissertation Chair: C. Rinaldi

Kwansun Cho  
Major: *Electrical and Computer Engineering*  
Minor: *Communication Sciences and Disorders*  
Dissertation: Foreign Accent Assessment in Second-Language Vowels  
Dissertation Chair: J. G. Harris

Bhaswati Choudhury  
Major: *Mechanical Engineering*  
Dissertation: Study of Dielectric Barrier Discharge (DBD) Plasma-Based Fluid Decontamination  
Dissertation Chair: S. Roy

Thomas J. Cirino  
Major: *Pharmaceutical Sciences—Pharmacodynamics*  
Dissertation: Biological Mediators of Pain, Substance Abuse and Cognitive Impairment in HIV Infection: Sufficiency of the HIV-Tat Protein  
Dissertation Chair: J. P. McLaughlin

Christopher Jordan Clukay  
Major: *Anthropology*  
Dissertation: Exploring the Role of Genetics and Epigenetics in Response to Conflict-Related Violence  
Dissertation Chair: C. J. Mulligan

Sayak Das Gupta  
Major: *Chemistry*  
Dissertation: Polynuclear Cerium/Manganese-oxo Clusters and Their Structural Relevance to Composite Oxides of Cerium and Manganese  
Dissertation Chair: G. Christou

Trevor Davila  
Major: *Mathematics*  
Dissertation: Infinite-Dimensional Coarse Geometry of Groups and Spaces  
Dissertation Chair: A. N. Dranishnikov

Adrian Diaz  
Major: *Aerospace Engineering*  
Dissertation: A Concurrent Atomistic-Continuum Method for Massively Parallel Simulation of Non-Equilibrium Solids  
Dissertation Chair: Y. Chen

James Daniel Diffenderfer  
Major: *Mathematics*  
Dissertation: An Active Set Method for Nonlinear Programming  
Dissertation Chair: W. W. Hager

Christopher Aaron DiScenza  
Major: *Coastal and Oceanographic Engineering*  
Dissertation: Wave Turbulence of Edge Waves  
Dissertation Chair: A. A. Sheremet

Brittney Nicole Dixon  
Major: *Public Health*  
Dissertation: The Association between the Built Environment and Intervention-Related Weight Loss Outcomes for Rural Adults with Obesity  
Dissertation Chair: K. M. Ross
Lisa G. Duffy
   Major:  Anthropology
   Dissertation:  Using Residue Analysis to Explore Ancient Maya Recipes and Food-Processing Technology
   Dissertation Chair:  K. F. Emery

Kyle A. Dyson
   Major:  Medical Sciences—Immunology and Microbiology
   Dissertation:  Towards a Comprehensive Understanding of Medulloblastoma Immunobiology
   Dissertation Chair:  D. Mitchell

Parker Benjamin Edwards
   Major:  Mathematics
   Dissertation:  A New Palette for Persistence Landscapes
   Dissertation Chair:  P. Bubenik

Robert Stephen Eisinger
   Major:  Medical Sciences—Neuroscience
   Dissertation:  Reward Processing and Impulsivity in Parkinson's Disease
   Dissertation Chair:  A. Gunduz

Amy L. Elliott
   Major:  Epidemiology
   Dissertation:  Racial/Ethnic and Area Deprivation Disparities in the Juvenile Justice Drug and Alcohol Use Services Cascade
   Dissertation Chair:  L. B. Cottler

Fabien Emmetiere
   Major:  Chemistry
   Dissertation:  Knoevenagel Adduct Allyl Anions: A Platform for Simplifying and Diversifying Complex Molecule Synthesis
   Dissertation Chair:  A. J. Grenning

Michael Esbach
   Major:  Interdisciplinary Ecology
   Dissertation:  Hunting for Justice: Indigenous Self-Determination and the Sustainability of Subsistence in the Ecuadorian Amazon
   Dissertation Chair:  B. A. Loiselle

Brandon James Eudy
   Major:  Nutritional Sciences
   Dissertation:  Role of Adenosine and Adenosine Receptors in Cytokine Secretion from Macrophages and Implication to Immune Function in a Mouse Model of Liver Damage
   Dissertation Chair:  R. P. Da Silva

Ying Fan
   Major:  Food Science
   Minor:  Food and Resource Economics
   Dissertation:  Determination of Whiteleg Shrimp Quality by a Sensory Evaluation Method Using Aqueous Aroma Dilutions and by a Colorimetric Strip Method
   Dissertation Chair:  P. J. Sarnoski
   Dissertation Co-chair:  K. R. Schneider

Daniel Elias Farrah
   Major:  Design, Construction and Planning
   Dissertation:  Integration of Environmental Indicators into Land-Use Conflict Identification Strategy to Analyze the Impacts of Multiple Land Use Scenarios
   Dissertation Chair:  P. D. Zwick

Henrietta Oyeyemi Fasanya
   Major:  Medical Sciences—Cancer Biology
   Dissertation:  The Role of Cathepsin Inhibition in Osteosarcoma Metastasis
   Dissertation Chair:  D. W. Siemann
Ehsan Fereyduni
Major: Chemistry
Dissertation: Discovery of a Room-Temperature Cope Rearrangement and Applications in Synthesis of Terpenes, Complex Amides, and Esters
Dissertation Chair: A. J. Grenning

Gabriel Alejandro Fernandez Bueno
Major: Medical Sciences—Immunology and Microbiology
Dissertation: Mitochondrial Dysfunction as a Component of Pathogenesis in Non-Alcoholic Fatty Liver Disease and Type 2 Diabetes Mellitus
Dissertation Chair: C. E. Mathews

Paula Fernandez Hernandez
Major: Romance Languages—Spanish
Dissertation: Canary Islands and the Caribbean at the Anthropocene Crossroads: Islands and Feminine and/or Feminist Poetry in the 21st Century
Dissertation Chair: E. Barradas

Alinka Leila Földesi-Freeman
Major: Nursing Sciences
Dissertation: HIV-Related Stigma and Medication Adherence: A Rural-Urban-Suburban Comparison Using Secondary Data from a Florida Cohort
Dissertation Chair: J. R. Stacciarini

Kara Lea Fransisco
Major: Sociology
Dissertation: Bad Bodies and Contested Conceptions: Exploring Trying to Conceive, Pregnancy, and Birth
Dissertation Chair: B. A. Zsembik

Ian R. Frazier
Major: Psychology
Dissertation: Trust-Related Decision Making and Aging
Dissertation Chair: N. C. Ebner

Michele Lisa Fullarton
Major: Materials Science and Engineering
Dissertation: Thermodynamics and Charged Defects in Nuclear Alloys and Semiconductor Materials from First-Principles Calculations
Dissertation Chair: S. R. Phillpot

Elyssa J. Gage
Major: History
Dissertation Chair: S. T. Kroen

Kareem A. Galal
Major: Pharmaceutical Sciences—Medicinal Chemistry
Dissertation: Synthesis and Biological Evaluation of Optimized Analogues of Benzyl Piperidine Based Neuropeptide FF Receptor Ligands
Dissertation Chair: C. R. McCurdy

Mayur Ghatge
Major: Electrical and Computer Engineering
Dissertation: Linear and Non-Linear Micro-Acoustic Waveguides for Frequency Control Applications
Dissertation Chair: R. Tabrizian

Elizabeth Maura Gleeson
Major: Art History
Dissertation: Between the Public and Private: Women’s Networks and the Politics of Portraiture at Napoleon’s Court
Dissertation Chair: M. L. Hyde
Emma Grauerholz-Fisher  
Major: Psychology  
Dissertation: Assessment and Teaching of Task Analyses in Individuals with Autism Spectrum Disorders  
Dissertation Chair: T. R. Vollmer

Jandy A. Gu  
Major: Anthropology  
Dissertation: Vanguard or Vandal: Symbolic Boundaries and Subjectivities of Grafite and Pixaço in São Paulo, Brazil  
Dissertation Chair: I. Jusinionyte  
Dissertation Co-chair: M. J. Heckenberger

Dongwoo Hahn  
Major: Health and Human Performance  
Dissertation: Diaphragm Weakness in Acute Myocardial Infarction by NAD(P)H Oxidase 4: Murine Diaphragm Preparation for Mitochondrial Function Assessment  
Dissertation Chair: L. F. Ferreira

LB Hannahs  
Major: Higher Education Administration  
Dissertation: From the Top Down: An Exploratory Study of a Diversity Mandate  
Dissertation Chair: K. D. Peck Parrott

Clarissa M. Harris  
Major: Animal Sciences  
Dissertation: The Antimicrobial Effects of a Vinegar-Based Ingredient, Lauric Arginate and Ethylenediamine Tetraacetic Acid against Salmonella on Skinless Ground Chicken Breast Meat  
Dissertation Chair: S. K. Williams

Holden Earl Harris  
Major: Interdisciplinary Ecology  
Dissertation: Viability and Effectiveness of a Commercial Fishery to Mitigate Invasive Lionfish in the Northern Gulf of Mexico  
Dissertation Chair: M. S. Allen  
Dissertation Co-chair: W. F. Patterson III

Angelique M. Haworth  
Major: Educational Leadership  
Dissertation: The Principal as an Advocate for Gifted Programs: A Multiple Case Study  
Dissertation Chair: L. B. Eldridge  
Dissertation Co-chair: L. J. Searby

Kirsten A. Hecht  
Major: Interdisciplinary Ecology  
Dissertation: A Mixed-Methods Investigation of Public Engagement Activities by Herpetologists  
Dissertation Chair: K. A. Stofer  
Dissertation Co-chair: M. A. Nickerson

Kristofer Thomas Henderson  
Major: Electrical and Computer Engineering  
Dissertation: Sensor Fusion for Non-Line-of-Sight Visualization and Imaging  
Dissertation Chair: S. J. Koppal

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

Kevin A. Henson  
Major: Environmental Engineering Sciences  
Dissertation: Quantifying the Effects of Upland Management on the Hydrology, Flora, and Fauna of Pine Flatwoods-Wetland Mosaics in the Southeastern United States  
Dissertation Chair: D. A. Kaplan
Marilyn Horta  
Major: Psychology  
Dissertation: The Effects of Chronic Intranasal Oxytocin Administration and Brain Mechanisms Underlying Dynamic Emotion Identification Accuracy in Healthy Aging  
Dissertation Chair: N. C. Ebner  
Dissertation Co-chair: A. Keil

Cody Coyotee Howard  
Major: Botany  
Dissertation: Evolutionary Insights into Monocotyledonous Geophytes  
Dissertation Chair: N. Cellinese

Muhammad Imran  
Major: Physics  
Dissertation: Theory of Magnetotransport in the Dirac and Weyl Semimetals  
Dissertation Chair: S. P. Hershfield

Cameron Jerome Jack  
Major: Entomology and Nematology  
Dissertation: Facilitating the Development of an Integrated Pest Management Approach for Controlling Varroa destructor in Florida  
Dissertation Chair: J. Ellis

Haoming Jin  
Major: Physics  
Minor: Materials Science and Engineering  
Dissertation: Comparative Studies of the Electrical Properties of Heterostructures Containing Topological Insulators or Strontium Titanate  
Dissertation Chair: A. F. Hebard

Lindsay M. Johnson  
Major: Zoology  
Dissertation: Phenotypic Effects of Spontaneous Mutations in Caenorhabditis elegans  
Dissertation Chair: C. Baer

Andrew S. Jones  
Major: Chemical Engineering  
Dissertation: Doped Rare-Earth Oxides for the Oxidative Coupling of Methane  
Dissertation Chair: H. E. Hagelin Weaver

Harrison Henry Jones  
Major: Zoology  
Dissertation: Avian Behavioral and Community-Level Responses to Forest Fragmentation in the Western Andes of Colombia  
Dissertation Chair: T. Palmer  
Dissertation Co-chair: S. K. Robinson

Madison P. Jones IV  
Major: English  
Dissertation: Writing, Place, Network: Scale and Digital Rhetoric  
Dissertation Chair: S. I. Dobrin

Rachel Elaine Joyce  
Major: Microbiology and Cell Science  
Dissertation: Bioprecipitation: The Connection between Microbiology and Meteorology  
Dissertation Chair: B. C. Christner

Colin Patrick Kearney  
Major: Mass Communication  
Dissertation: Regionalism in Prime-Time: An Examination of the American South on Television  
Dissertation Chair: R. Rodgers
Oliver Keller
Major: Entomology and Nematology
Dissertation: Studies on Robopus Motschulsky, 1853 and Heterophotinus Oliver, 1894 and Related West Indian Fireflies (Coleoptera: Lampyridae)
Dissertation Chair: M. A. Branham

Rachel Catherine Kelley
Major: Health and Human Performance
Minor: Nutritional Sciences
Dissertation: Skeletal Muscle and Cardiac Abnormalities in Diet-Induced Obesity and Heart Failure with Preserved Ejection Fraction
Dissertation Chair: L. F. Ferreira

Roozbeh Ketabi
Major: Computer Engineering
Dissertation: Enabling Urban-Scale Simulation, Similarity, Matching, and Forecasting Applications Using Spatio-Temporal Analysis of Vehicular Mobility
Dissertation Chair: A. A. Helmy

Erica Jean Kiernan
Major: Public Health
Dissertation: Evaluating the Relationship between Apathy and Grit with Participation in a Parkinson's Community Exercise Program
Dissertation Chair: A. V. Blue

Benjamin J. Kimock
Major: Astronomy
Dissertation: Lyman-α Blobs in Cosmological Simulations
Dissertation Chair: D. T. Narayanan

Tamara Ibragimovna Khudoyberdieva King
Major: Pharmaceutical Sciences—Pharmacy
Dissertation: Bioanalytical Method Development, Validation, and Application to Preclinical Pharmacokinetic Studies of Neuropeptide FF Targeting Compounds and Kratom Alkaloids
Dissertation Chair: T. D. Schmittgen
Dissertation Co-chair: C. R. McCurdy

Rahul Babu Koneru
Major: Mechanical Engineering
Dissertation: Investigations of Shock Wave-Particle Bed Interactions Using a Euler-Lagrange Framework
Dissertation Chair: S. Balachandar

Pavlo Ivan Kravchenko
Major: Chemical Engineering
Dissertation Chair: D. Hibbitts

Ouidad Lahtigui
Major: Chemistry
Dissertation: Fundamental and Applied Studies of the Cope Rearrangement
Dissertation Chair: A. J. Grenning

Kangjae Lee
Major: Mechanical Engineering
Dissertation: A Laser-Based Heating System Coupled within Operando Raman Spectroscopy for Studying Solar Thermochemical Redox Cycles of Ceria and LSM Perovskites
Dissertation Chair: J. Scheffe
Sangyoul Lee
Major: *Food and Resource Economics*
Dissertation: The Unintended Consequences of Environmental Regulation and Voluntary Pollution Prevention Program: Substitution, Leakage, and Spillover
Dissertation Chair: X. Bi

Patrice J. Leopold
Major: *Counseling and Counselor Education*
Dissertation: Examining Empathy, Resilience, and Parental Attachment as Mediators for Intergenerational Transmission of Conflict in Dyadic Romantic Relationships
Dissertation Chair: J. Swank

Alice Kelsey Lewis
Major: *Zoology*
Dissertation Chair: M. J. Cohn

Gengnan Li
Major: *Chemistry*
Dissertation: Structural and Functional Investigation of Macromolecules in Natural Product Biosynthetic Pathways
Dissertation Chair: S. D. Bruner

Shuzhan Li
Major: *Curriculum and Instruction*
Dissertation: Rural Mainstream Elementary Teacher Identity in Teaching English Language Learners
Dissertation Chair: M. R. Coady

Tiantian Li
Major: *Soil and Water Sciences*
Dissertation: From Biowaste to Value Added Materials and Its Application in Soil and Water
Dissertation Chair: Y. Li
Dissertation Co-chair: Z. Tong

Yang Li
Major: *Mechanical Engineering*
Dissertation: A Multiscale Simulation Study of PbTe-PbSe Heterostructures from Growth to Defect Formation to Phonon Transport
Dissertation Chair: Y. Chen

Ying-Yu Liao
Major: *Plant Pathology*
Dissertation: Antibacterial Potential of Nano Magnesium, and Role of Type VI Secretion System of *Xanthomonas perforans*
Dissertation Chair: M. Paret
Dissertation Co-chair: J. B. Jones

Yi Ting Lien
Major: *Pharmaceutical Sciences—Pharmacy*
Dissertation: Application of Pharmacometric Principles for Enhanced Decision Making in Special Patient Populations
Dissertation Chair: S. Schmidt
Dissertation Co-chair: V. Vozmediano Esteban

Andrea Lin
Major: *Medical Sciences—Immunology and Microbiology*
Dissertation: Immune Changes with ATG+GCSF Therapy and Its Impacts on C-Peptide Preservation in Type 1 Diabetes
Dissertation Chair: C. E. Mathews

Thomas Linehan
Major: *Aerospace Engineering*
Dissertation: Vortex Flows and the Stability and Control of Thin Low-Aspect-Ratio Wings with Application to Bird Landing
Dissertation Chair: K. Mohseni
Taylor N. Lipscomb  
**Major:** Fisheries and Aquatic Sciences  
**Dissertation:** Using Larval Digestive System Ontogeny to Inform Larviculture Protocols in Freshwater Ornamental Fishes  
**Dissertation Chair:** M. A. DiMaggio

Jun Liu  
**Major:** Research and Evaluation Methodology  
**Dissertation:** Detecting Differential Item Functioning Items through the Use of Multiple Group Mixture Item Response Theory Model  
**Dissertation Chair:** D. Miller

Yiyang Liu  
**Major:** Epidemiology  
**Dissertation:** Cocaine Use Patterns and Polysubstance Use among Cocaine Users from a National Survey  
**Dissertation Chair:** L. B. Cottler

Yue Liu  
**Major:** Environmental Engineering Sciences  
**Dissertation:** Mathematical and Physical Models of Urban Particulate Granulometry  
**Dissertation Chair:** J. J. Sansalone

Jason Paul Longtin  
**Major:** Music Education  
**Dissertation:** The Experiences of Music Education Majors Who Transfer from a Two-Year College to a Public Four-Year University in Florida: A Hermeneutic Phenomenology  
**Dissertation Chair:** W. Bauer

Beatriz Lopez Gutierrez  
**Major:** Forest Resources and Conservation  
**Dissertation:** Challenges and Opportunities for Biodiversity Conservation through Nature-Based Activities in the Osa Peninsula of Costa Rica  
**Dissertation Chair:** E. N. Broadbent

Natercia Lourinho Moura do Valle  
**Major:** Curriculum and Instruction  
**Minor:** Research and Evaluation Methodology  
**Dissertation:** The Influence of Learning Analytics Dashboard Design on Learners’ Statistics Anxiety, Motivation, and Learning Performance  
**Dissertation Chair:** P. Antonenko

Xiaojie Lu  
**Major:** Design, Construction and Planning  
**Minor:** Statistics  
**Dissertation:** Exploring the Effects of Innovative Lighting Interventions on Older Adults’ Movement Behaviors and Overcoming Fear of Falling  
**Dissertation Chair:** S. Ahrentzen

Yanyan Lu  
**Major:** Soil and Water Sciences  
**Dissertation:** Agronomic and Environmental Impact of Land Application of Biosolids on Bahiagrass Pastures in Florida  
**Dissertation Chair:** M. L. Silveira

Yu Lu  
**Major:** Materials Science and Engineering  
**Dissertation:** Understanding the Microstructure Evolution and Mechanical Property Degradation of Thermally Aged and Neutron Irradiated Duplex Stainless Steels  
**Dissertation Chair:** Y. Yang

Yangdi Lyu  
**Major:** Computer Science  
**Dissertation:** Test Generation for System-On-Chip Security Validation  
**Dissertation Chair:** P. K. Mishra
Russell Michael Macoon  
Major: Chemical Engineering  
Dissertation: Dispersion of Drug Particles and Emulsion Drops in Oleogels for Ophthalmic Drug Delivery  
Dissertation Chair: J. E. Butler  
Dissertation Co-chair: A. Chauhan

Katherine Maslak Madson  
Major: Design, Construction and Planning  
Dissertation: Evaluation of Types of Flexibility in Delivering Manufacturing Facilities and a Real Options Analysis of Scalability within the Pharmaceutical Sector  
Dissertation Chair: B. W. Franz

Matthew David Magennis  
Major: Health and Human Performance  
Dissertation: Emotion and Movement Quality: Speed, Smoothness and Timing Accuracy  
Dissertation Chair: C. M. Janelle

Nidza Vizcarra Marichal  
Major: Curriculum and Instruction  
Dissertation: Teacher Knowledge about Teaching Rural Secondary English Learners  
Dissertation Chair: M. R. Coady

Maria Dolores Martin Gasulla  
Major: Civil Engineering  
Dissertation: Integrating Autonomy and Connectivity to Improve Traffic Operations at Roundabouts  
Dissertation Chair: A. Elefteriadou

Michaela Wynne McCrary  
Major: Biomedical Engineering  
Dissertation: Development of Spinal Cord Injury In Vitro Model Systems and In Vivo Therapeutic Strategies  
Dissertation Chair: C. E. Schmidt

Lucas Glen McEachron  
Major: Interdisciplinary Ecology  
Dissertation: Reef Fish Spatial Distributions Throughout the Florida Keys in the Context of Matrix Effects, Trophic Dynamics, and Complementary Modeling Techniques  
Dissertation Chair: R. J. Fletcher, Jr.  
Dissertation Co-chair: M. S. Allen

Antionette M. McFarlane  
Major: Sociology  
Dissertation: "Black Men and Women Are Not Raised to Love Each Other": The Perspectives of Black College Students regarding Dating Violence  
Dissertation Chair: C. L. Shehan

Noah John McFerran  
Major: Nuclear Engineering Sciences  
Dissertation: Surface Measurement Gamma-Ray Spectroscopy Variation Characterization of Filled Uranium Hexafluoride Cylinders  
Dissertation Chair: P. J. Enqvist

Daniel C. Melear  
Major: Counseling and Counselor Education  
Dissertation: A Qualitative Study of How Couple Counselors Understand Apology and Adaptive Shame in Relationship Repair with Couples Facing Infidelity  
Dissertation Chair: S. L. Smith

Anthony Eli Melton  
Major: Botany  
Dissertation: Molecular Evolutionary and Macroecological Investigations of the Eastern Asia—Eastern North America Floristic Disjunction  
Dissertation Chair: D. E. Soltis  
Dissertation Co-chair: P. S. Soltis
Andrew L. Miller
Major: Physics
Dissertation: Using Machine Learning and the Hough Transform to Search for Gravitational Waves from Young Isolated Neutron Stars
Dissertation Chair: B. F. Whiting

Stephanie Michelle Mintz
Major: Criminology, Law, and Society
Dissertation Chair: L. M. Lanza Kaduce

Hamideh Mohammadi
Major: Romance Languages—Spanish
Dissertation: Effect of Age of Exposure in Heritage and Second Language Processing
Dissertation Chair: J. R. Valdes Kroff

Cameron D. Morley
Major: Mechanical Engineering
Dissertation: Collective Cell Behavior in 3D: Mechanics, Migration, and Transport
Dissertation Chair: T. E. Angelini

Aaron James Mullins
Major: Entomology and Nematology
Dissertation: Nitrogen Procurement and Provisioning in the Termites
Dissertation Chair: N. Su

Aravinda Munasinghe
Major: Chemistry
Dissertation: Polymers’ Effects on Structure and Dynamics of upon Conjugation, Including Their Effect towards the Microenvironment of the Protein
Dissertation Chair: C. M. Colina

Matthew Nicholas Musselwhite
Major: Veterinary Medical Sciences
Dissertation: Central and Peripheral Modulation of Reflex Tracheobronchial Cough in the Cat
Dissertation Chair: D. C. Bolser

Barbara A. Myslik
Major: Mass Communication
Dissertation: Agenda Building Potential of Populist Politicians in the European Union and in the United States
Dissertation Chair: S. K. Kiousis

Martin Nnamdi Nwodo
Major: Design, Construction and Planning
Dissertation: Investigation of Exergy-Based Life Cycle Assessment of Buildings
Dissertation Chair: C. J. Anumba

Seth Timothy Nydam
Major: Aerospace Engineering
Dissertation Chair: J. Conklin

Steven V. Nystrom
Major: Chemical Engineering
Dissertation: Catalysis: Elucidating Kinetics and Trends Using DFT and Experiments
Dissertation Chair: D. Hibbitts

Aleksandra Ita Olszewska
Major: Curriculum and Instruction
Dissertation: Counter-Stories from Poland: Identities and Language Identities of Adolescent Refugee-Background Students
Dissertation Chair: M. R. Coady
James M. Orrock  
Major: *Plant Pathology*  
Dissertation: Evaluation of Tea (*Camellia sinensis*) as a Novel Crop for Florida  
Dissertation Chair: B. S. Richter  
Dissertation Co-chair: B. Rathinasabapathi

Zachary Ben Osking  
Major: *Medical Sciences—Molecular Cell Biology*  
Dissertation: ALS-Linked SOD1 Mutants Enhance Neurite Outgrowth and Disrupt the Actin Cytoskeleton  
Dissertation Chair: E. A. Vitriol

Xiaoshu Pan  
Major: *Chemistry*  
Dissertation: Aptamer Engineering for Enhanced Delivery of Functional Proteins and Biomarker Analysis in Cancer Therapy  
Dissertation Chair: R. A. Butcher

Shubham Pandey  
Major: *Materials Science and Engineering*  
Dissertation: Evolution of Alloys and Radionuclide Sequestration by First-Principles Calculations  
Dissertation Chair: S. R. Phillpot

Bongsuk Park  
Major: *Civil Engineering*  
Dissertation: Reclaimed Asphalt Pavement (RAP) Characterization to Maximize RAP Content in Polymer-Modified Asphalt Mixtures  
Dissertation Chair: R. Roque

Jungyoung Park  
Major: *Curriculum and Instruction*  
Minor: *Research and Evaluation Methodology*  
Dissertation: Developing a Measure of Preservice Teachers’ Metalinguistic Knowledge for Teaching Reading: Evidence-Centered Assessment Design  
Dissertation Chair: Z. Fang

Upasana Parthasarathy  
Major: *Medical Sciences—Immunology and Microbiology*  
Dissertation: E3 Ubiquitin Ligase HECTD3 Acts a Novel Tumor Suppressor in Colon Cancer by Regulating Essential Oncogenic Pathways  
Dissertation Chair: D. Avram

Jayshree Shantibhai Patel  
Major: *Entomology and Nematology*  
Dissertation: Biology of the Hybrid Termites of *Coptotermes formosanus* and *C. gestroi* (Blattodea: Rhinotermitidae)  
Dissertation Chair: N. Su

Anirudra Paul  
Major: *Chemistry*  
Dissertation: Development of New Methods for α-C-H Bond Functionalization of Cyclic Amines  
Dissertation Chair: D. Seidel

Joshua Thomas Paul  
Major: *Materials Science and Engineering*  
Dissertation: Utilization of High-Throughput Techniques for Materials Discovery and Characterization  
Dissertation Chair: R. Hennig

John M. Peasant Jr.  
Major: *Music Education*  
Dissertation: The Exploration of Digital Gamification on Middle School Band Students’ Practice Habits  
Dissertation Chair: W. Bauer
Percy A. Peralta
Major: Interdisciplinary Ecology
Dissertation Chair: K. A. Kainer
Dissertation Co-chair: C. M. Tucker

Daniel Pimentel
Major: Mass Communication
Dissertation: If I Become the Masses I Will Act: VR Animal Embodiment and Psychic Numbing
Dissertation Chair: S. Kalyanaraman

Daniella Steiner Kesler Porter
Major: Special Education
Dissertation: Investigating an Experienced Early Childhood Teacher’s Process of Developing an Emergent Curriculum
Dissertation Chair: K. M. Kemple

Brianna Belén Posadas
Major: Human-Centered Computing
Dissertation: Crowdsourcing Ground Truth Data Collection for Precision Agriculture Using a Citizen Science Mobile Application
Dissertation Chair: J. E. Gilbert

Aditya Mahadev Prakash
Major: Industrial and Systems Engineering
Dissertation: Healthcare Service Operations with Strategic Patients: Modeling and Analysis
Dissertation Chair: X. Zhong

Julianne Price
Major: Psychology
Dissertation: Hair Cortisol Trajectories from Pre-Treatment to Early Abstinence in Alcohol Use Disorder: A Correlate of Cognitive Recovery
Dissertation Chair: S. J. Nixon

Niels Olduvai Proctor
Major: Forest Resources and Conservation
Dissertation: Assessing the Use and Benefits of Self-Directed Retrieval Practice in the Authentic Context of an Undergraduate Course
Dissertation Chair: M. C. Monroe
Dissertation Co-chair: P. Antonenko

Sheryl E. Quail
Major: Forest Resources and Conservation
Minor: Geography
Dissertation: REDD, Sustainable Agricultural Intensification, and Land Cover Change Modeling: Analyzing Tradeoffs and Synergies at a REDD Pilot Project in Kilosa District, Tanzania
Dissertation Chair: G. Barnes
Dissertation Co-chair: B. A. Child

Carlos J. Quintero
Major: Soil and Water Sciences
Dissertation: Geometry Controls on Water and Carbon Fluxes in a Subtropical Karst Wetland Landscape
Dissertation Chair: M. J. Cohen
Dissertation Co-chair: T. Z. Osborne

Shashank Ranjan
Major: Computer Science
Dissertation: Multispectral Analysis and Visualization Algorithms for Scientific Study of Biological Materials
Dissertation Chair: C. T. Toler-Franklin
Biswas Rijal  
Major: *Materials Science and Engineering*  
Dissertation: *First Principle Study of Defects in Materials Surfaces*  
Dissertation Chair: R. Hennig

Michael Kenneth Riley II  
Major: *Plant Molecular and Cellular Biology*  
Dissertation: *Development of Lignin Nanomaterials for the Delivery of Nucleic Acids*  
Dissertation Chair: W. Vermerris

Raele Donetha Robison  
Major: *Rehabilitation Science*  
Dissertation: *Lingual Physiologic Reserve Homeostasis and Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis*  
Dissertation Chair: E. K. Plowman

Kayla B. Rodney  
Major: *English*  
Dissertation: *Seeking Knowledge: Education Theory in the Literary Works of African American Writers*  
Dissertation Chair: D. W. King

Max H. Russo  
Major: *Pharmaceutical Sciences—Pharmacodynamics*  
Dissertation: *Molecular Mechanisms Associated with Adverse Effects of the Environmentally Persistent Organochlorine Pesticide Dieldrin*  
Dissertation Chair: B. Liu

Mark Robert Sandfoss  
Major: *Zoology*  
Dissertation: *Ecological Disturbance and Responses of Florida Cottonmouth Snakes Agkistrodon conanti on Seahorse Key, Florida*  
Dissertation Chair: H. B. Lillywhite

Ravneet Kaur Sandhu  
Major: *Horticultural Sciences*  
Dissertation: *Relay Cropping as an Alternative Technique in Vegetables and Strawberry Production for Growers in Florida for Maximizing Economic Returns*  
Dissertation Chair: N. S. Boyd

Jay Claus Santos  
Major: *Health and Human Performance*  
Dissertation: *Antecedents and Consequences of College Athletes’ Time Demands*  
Dissertation Chair: M. Sagas

Ayush Shekhar Saxena  
Major: *Zoology*  
Dissertation: *Tempo, Mode, and Fitness Effects of Spontaneous Mutation in Caenorhabditis elegans*  
Dissertation Chair: C. Baer

Tracey B. Schafer  
Major: *Soil and Water Sciences*  
Dissertation: *Hurricane Impacts on Water Quality and Dissolved Organic Matter Cycling along an Aquatic Continuum*  
Dissertation Chair: T. Z. Osborne  
Dissertation Co-chair: R. K. Reddy

Lesley Ann Schumacher  
Major: *Entomology and Nematology*  
Dissertation: *Sod-Based Rotation for Rotylenchulus reniformis Management and Effects on Nematode Community Structure in Peanut-Cotton Systems*  
Dissertation Chair: Z. Grabau
Erika Rachel Schwarz  
Major: Veterinary Medical Sciences  
Dissertation: Development of an Ovine Model of Zika Virus Infection  
Dissertation Chair: M. T. Long

Sarah Kaitlyn Scott  
Major: Chemistry  
Dissertation: Development of the Enyne Cope Rearrangement for Applications in Complex Molecule Synthesis  
Dissertation Chair: A. J. Grenning

Mathew Sebastian  
Major: Medical Sciences—Molecular Cell Biology  
Dissertation: PglyrP3, a Novel Critical Regulator of Breast Cancer Development and Metastasis  
Dissertation Chair: D. Tran  
Dissertation Co-chair: D. W. Siemann

Shengchen Shan  
Major: Plant Molecular and Cellular Biology  
Dissertation: Bridging Genetic and Phenotypic Consequences of Polyploidy: Transcriptome, Methylome, and Transgenic Studies of Tragopogon (Asteraceae)  
Dissertation Chair: D. E. Soltis

Tianqi Shan  
Major: Biomedical Engineering  
Dissertation: Photoacoustic Imaging and Its Application in Congenital Brain Diseases  
Dissertation Chair: H. Jiang

Melanie R. Shapiro  
Major: Medical Sciences—Immunology and Microbiology  
Dissertation: Insulin-Like Growth Factors as Biomarkers with Immunological Impacts on the Development of Type 1 Diabetes  
Dissertation Chair: T. M. Brusko  
Dissertation Co-chair: M. A. Atkinson

Ribhu Sharma  
Major: Materials Science and Engineering  
Dissertation: An Investigative Study of Dopant Diffusion in Gallium Oxide and Design Optimization of $\beta$-Ga$_2$O$_3$ Schottky Rectifiers  
Dissertation Chair: M. E. Law

Alex Justin Shaw  
Major: Computer Science  
Dissertation: Automatic Recognition of Children's Touchscreen Stroke Gestures  
Dissertation Chair: L. Anthony

Philip L. Shirk  
Major: Zoology  
Dissertation: Chameleons in a Changing Climate  
Dissertation Chair: C. W. Osenberg

Andrew M. Shirley  
Major: Plant Pathology  
Dissertation: Chemical Control and Population Dynamics of Pseudoperonospora cubensis, the Cause of Cucurbit Downy Mildew in Florida  
Dissertation Chair: G. E. Vallad

Maryada Shrestha  
Major: Forest Resources and Conservation  
Dissertation: Evaluating Approaches to Estimate Tree and Understory Contributions to Carbon Flux in a Pine Savannah in North Central Florida  
Dissertation Chair: J. Vogel
Alex Purman Smith  
Major: Political Science  
Dissertation: The Art of Political Negotiation: How Heresthetic Changes Legislative Inertia on Civil Rights  
Dissertation Chair: L. C. Dodd  
Dissertation Co-chair: B. A. Rosenson

Garrett Richard Smith  
Major: Medical Sciences—Neuroscience  
Dissertation: Hippocampal Subregion Transcriptomic Profiles Reflect Strategy Selection during Cognitive Aging  
Dissertation Chair: T. C. Foster

Johnathan David Smith  
Major: Computer Science  
Dissertation: Analysis of Large Networks with Limited Data  
Dissertation Chair: M. T. Thai

James Gerald Solari  
Major: Counseling and Counselor Education  
Dissertation: Therapy with Disordered Gamers: An Interpretive Phenomenological Analysis of Counselor Experience  
Dissertation Chair: S. C. Echevarria-Doan

Zachary Anthony Sorrentino  
Major: Medical Sciences—Neuroscience  
Dissertation: Truncation of Alpha-Synuclein: Implications for Neurodegenerative Diseases  
Dissertation Chair: B. I. Giasson

Michelle Souza Oliveira  
Major: Plant Pathology  
Dissertation: Colletotrichum gloeosporioides Species Complex Characterization and Management of Colletotrichum Crown Rot of Strawberry  
Dissertation Chair: N. A. Peres Lauretti

Lindsay J. Spiers  
Major: Fisheries and Aquatic Sciences  
Dissertation: The Role of Herbivores in Shaping Coral Reef Macroalgal Communities: Differing Effects of Herbivorous Fish and the Long Spined Sea Urchin Diadema antillarum  
Dissertation Chair: T. K. Frazer

Theodor L. Stansly  
Major: Agronomy  
Dissertation: The Response of Glucosinolates to Biotic and Abiotic Stress on Oilseed Brassica carinata in the Southeastern United States  
Dissertation Chair: D. L. Wright  
Dissertation Co-chair: I. M. Small

Max David Stein  
Major: Mechanical Engineering  
Dissertation: Displacement and Static Force Analysis of the General 3-RRR Spherical Parallel Mechanism  
Dissertation Chair: C. D. Crane III

Thanachart Subgranon  
Major: Civil Engineering  
Dissertation: Fine Lightweight Aggregate-Based Internal Curing-Enhanced Crack Mitigation in Concrete  
Dissertation Chair: M. Tia

Meng Tang  
Major: Computer Engineering  
Dissertation: Performance Optimization for Sparse Matrix Factorization Algorithms on Hybrid Multicore Architectures  
Dissertation Chair: S. Ranka
Justin Shane Tauscher  
Major: Counseling and Counselor Education  
Dissertation: Preferences for Technology Based and In-Person Substance Use Disorder Treatment: A Discrete Choice Experiment  
Dissertation Chair: M. K. DePue

Georgina Nicole Thompson  
Major: Microbiology and Cell Science  
Dissertation: Intercontinental Patterns of Diazotroph Community Assembly among the Ancient Forest of the Northern Hemisphere  
Dissertation Chair: E. Triplett

Trevor B. Tilly  
Major: Environmental Engineering Sciences  
Dissertation: Improving the Toxicity Assessment of Nanoparticles Using Bioinspired Condensational Particle Growth Mechanism  
Dissertation Chair: C. Wu

Aleksandra Tomic  
Major: Linguistics  
Dissertation: Codeswitching as a Beneficial Cue in the Processing of Subsequent Speech: Evidence from Eyetracking Studies on Emotionality and Prediction  
Dissertation Chair: J. R. Valdes Kroff

Mohsen Tootoonchi  
Major: Agronomy  
Dissertation: Ecological Impacts of Climate Change and Saltwater Intrusion on Aquatic and Wetland Plants  
Dissertation Chair: L. A. Gettys  
Dissertation Co-chair: J. A. Ferrell

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

Trang Theresa Tran  
Major: Chemistry  
Dissertation: Investigating Polymorphism-Induced Conformational Changes in HIV-1 Protease by Pulsed Electron Paramagnetic Resonance and Molecular Dynamics  
Dissertation Chair: G. E. Fanucci

Prabhanshu Tripathi  
Major: Chemistry  
Dissertation: Structural Basis of the Self-Resistance Mechanisms in the Colibactin Biosynthetic Pathway  
Dissertation Chair: S. D. Bruner

Kshitiz Upadhyay  
Major: Mechanical Engineering  
Minor: Materials Science and Engineering  
Dissertation Chair: G. Subhash

Laura B. Van Voorhis  
Major: Anthropology  
Dissertation: Prehistoric Denizens of Fort Center, Florida: Osteoarchaeology and Stable Isotope Geochemistry  
Dissertation Chair: J. Krigbaum

Claudia A. Vargas  
Major: Curriculum and Instruction  
Minor: Geology  
Dissertation: STEM Identity Development in Minoritized Youth  
Dissertation Chair: P. Antonenko  
Dissertation Co-chair: B. J. MacFadden
Cecilia Josefina Vásquez-Pazmiño  
Major: Anthropology  
Dissertation: The History of the Space in Colta Lake Valley (Chimborazo, Ecuador)  
Dissertation Chair: A. Oyuela-Caycedo

Kyle Jude Michael Ventura  
Major: Materials Science and Engineering  
Dissertation: Thermodynamic Simulation and Experimental Evaluation of Novel Ni-Based Superalloys  
Dissertation Chair: G. E. Fuchs

Kristen Amelia Walczesky  
Major: Anthropology  
Dissertation: Totem Poles in the East: An Examination of the Misrepresentation, Silencing, and Forced-Forgetting of Native Americans in the United States  
Dissertation Chair: S. D. deFrance

Glen Harris Walters  
Major: Electrical and Computer Engineering  
Dissertation: Scaling and Design of Thin Film Ferroelectric Hafnium Oxide for Memory and Logic Devices  
Dissertation Chair: T. Nishida

Wei-en Wang  
Major: Health and Human Performance  
Dissertation: Neural Dynamics of Pain and Motor Function in Chronic Musculoskeletal Pain  
Dissertation Chair: S. A. Coombes

Xiaojie Wang  
Major: Industrial and Systems Engineering  
Dissertation: Distributionally Robust Stochastic Optimization in Power System and Healthcare System  
Dissertation Chair: Y. Guan  
Dissertation Co-chair: X. Zhong

Kelly A. Wiechman  
Major: Romance Languages—French and Francophone Studies  
Minor: Linguistics  
Dissertation: Fugitives and Exiles: Francophone Migration in South Carolina 1562-1810  
Dissertation Chair: H. Blondeau

Ryan Michael Wilhelmi  
Major: Geology  
Dissertation: Evolution and Exposure of Precambrian Basement along the Western Margin of the Wyoming Province  
Dissertation Chair: D. A. Foster

MacKenzie D. Williams  
Major: Medical Sciences—Immunology and Microbiology  
Dissertation: Genetic Associations Driving Islet Autoantibody Persistence, Residual Beta Cell Function, and Altered Innate Responses in Type 1 Diabetes  
Dissertation Chair: M. A. Atkinson

Rua Mae Williams  
Major: Human-Centered Computing  
Dissertation: Metacogs: VR Toolkit for Executive Function Assessment and Metacognitive Strategy Development via Agent-Based Modeling  
Dissertation Chair: J. E. Gilbert

Brandon W. Witbeck  
Major: Mechanical Engineering  
Dissertation: Molecular Dynamics Simulations of the Impact of Defects on Ni/Al Nanolaminate Combustion  
Dissertation Chair: D. Spearot
Tianyuan Xiao  
Major: Chemistry  
Dissertation: Synthesis, Characterization and Properties of Nanoparticles and Their Assemblies under High-Pressure and Asymmetric Field  
Dissertation Chair: Y. C. Cao

Yao Xiao  
Major: Biomedical Engineering  
Dissertation: Multimodal CT Image Quality Enhancement and Radiation Optimization  
Dissertation Chair: R. Fang

Zhengtao Xu  
Major: Materials Science and Engineering  
Dissertation Chair: J. Xue

Fang Yao  
Major: Design, Construction and Planning  
Dissertation: Developing a Data-Driven System for Tracking and Visualizing Urban Geo-Topics: From Retrospective to Real-Time  
Dissertation Chair: P. D. Zwick  
Dissertation Co-chair: Y. Wang

Leping You  
Major: Mass Communication  
Dissertation: The Antecedents and Outcomes of Corporate Political Advocacy: A Scale Development  
Dissertation Chair: L. L. Hon

Bin Yu  
Major: Epidemiology  
Dissertation: Social Capital and Suicidal Behaviors among Rural-To-Urban Migrants in China  
Dissertation Chair: X. Chen

Yanan Yu  
Major: Industrial and Systems Engineering  
Dissertation: Convex Hull Pricing and Strong Formulations for Unit Commitment Problem  
Dissertation Chair: Y. Guan

Ruyue Yuan  
Major: Mathematics  
Dissertation: Portfolio Allocation Using Hidden Markov Chain and Dynamic Programming  
Dissertation Chair: M. Rao

Rola S. Zeidan  
Major: Veterinary Medical Sciences  
Dissertation: Identifying Mitochondrial-Cell Signaling Networks by Functional Profiling  
Dissertation Chair: C. D. Vulpe

Peilan Zhang  
Major: Pharmaceutical Sciences—Medicinal Chemistry  
Dissertation: Characterization of Functional Proteins for Drug Research  
Dissertation Chair: Y. Ding

Shuaifang Zhang  
Major: Mechanical Engineering  
Dissertation: A Phase-Field Model Describing Fracture in Anisotropic Brittle Materials  
Dissertation Chair: M. Tonks

Yinan Zhao  
Major: Astronomy  
Dissertation: Development of Algorithms for Detecting Weak Signals in Radial Velocity Data and Quasar Spectra  
Dissertation Chair: J. Ge
Haocheng Zhou  
Major: Mechanical Engineering  
Dissertation: A MEMS-Based Five-Hole Probe with Optical Pressure Transducers  
Dissertation Chair: M. Sheplak

Zhengbo Zhu  
Major: Chemistry  
Dissertation: Redox-Neutral C-H Functionalization of Amines and Conjugated-Base-Stabilized Carboxylic Acid Catalysis  
Dissertation Chair: D. Seidel

Rebecca Ann Zimler  
Major: Entomology and Nematology  
Dissertation: Emergence and Transmission Potential of Zika Virus by Invasive Mosquitoes from Florida and Puerto Rico  
Dissertation Chair: B. W. Alto

Doctor of Education

Shanda Clarke  
Major: Curriculum and Instruction  
Dissertation: Closing the Opportunity Gap: Insights into Project-Based Learning with Low-Achieving First Graders  
Dissertation Chair: E. Bondy

Matthew E. Cribbs  
Major: Curriculum and Instruction  
Dissertation: Using Lesson Study to Implement Inquiry-Based Science Instruction: Insights Gained by Teachers and an Academic Coach  
Dissertation Chair: A. Murata  
Dissertation Co-chair: N. L. Dana

Kelli Jo Edgell  
Major: Educational Leadership  
Dissertation: Proficiency Rate Differences between the Florida Comprehensive Assessment Test and the Florida Standards Assessment in Title I and Non-Title I Schools  
Dissertation Chair: C. H. Redding

Angelic M. Eggert  
Major: Curriculum and Instruction  
Dissertation: Exploring Teacher Use of iPads in a One-to-One Elementary Environment  
Dissertation Chair: S. Kumar

Stephanie E. Fitzwater  
Major: Curriculum and Instruction  
Dissertation: Determining Factors that Prompt Mobile Device Management Adoption in K-12 Schools and School Districts  
Dissertation Chair: K. M. Dawson

William A. Hamilton  
Major: Higher Education Administration  
Dissertation: Exploring the Limits of the Grit Narrative: A Quantitative Case Study of Nontraditional College Student Persistence  
Dissertation Chair: D. A. Kramer

Brittany Matthews-Mijatovic  
Major: Higher Education Administration  
Dissertation: A Phenomenological Study on the Enrollment Decisions of High-Achieving, Low-Income Students Enrolled in a Community College  
Dissertation Chair: J. D. Porter-Roberts  
Dissertation Co-chair: C. Haynes
Deborah J. McDonald  
Major: Educational Leadership  
Dissertation: Analysis of Collegiate Academic Mentorship Program on Persistence, Leadership Development and Academic Achievement of Underrepresented Populations at West Point  
Dissertation Chair: L. B. Eldridge  
Dissertation Co-chair: C. H. Redding

Tara Lynne Orlowski  
Major: Special Education  
Dissertation: Directors’ Use of Strategies to Support Child Care Personnel’s Transfer of Learning from Professional Development Activities into the Workplace  
Dissertation Chair: K. M. Kemple

Brittany Rae Rincon  
Major: Curriculum and Instruction  
Dissertation Chair: V. A. Vescio

Matthew Roger Roy  
Major: Curriculum and Instruction  
Dissertation: Facilitating Writing Professional Development: A Practitioner Research Study  
Dissertation Chair: A. J. Adams

Stephanie M. Russo-Bischoff  
Major: Curriculum and Instruction  
Dissertation: Instructional Coaching of Differentiated Instruction in Language Arts Block: Teachers’ Perceptions of the Impact on Their Practice  
Dissertation Chair: V. A. Vescio

Rachel Holly Scott  
Major: Curriculum and Instruction  
Dissertation: Path Analysis of Technology Integration Factors in Magnet Schools  
Dissertation Chair: A. D. Ritzhaupt

Amy Morris Wagner  
Major: Curriculum and Instruction  
Dissertation: Teacher Driven Professional Development: Exploring Motivation to Engage in Practitioner Inquiry and How to Support Teachers through the Process  
Dissertation Chair: A. J. Adams  
Dissertation Co-chair: J. L. McLeskey

Douglas Earl Wendel  
Major: Higher Education Administration  
Dissertation: Pathways to Success: Effects of Developmental Mathematics Pathway Choice on Subsequent Course Success  
Dissertation Chair: D. A. Kramer

Willie Mae India White  
Major: Educational Leadership  
Dissertation: Understanding the Persistence of Take Stock in Children Scholarship Recipients  
Dissertation Chair: C. H. Redding
DOCTOR OF AUDIOLOGY

Jamie Bianco
Brandy Michele Brent
Alicia Ann D’Ittri Chavez
Patrick E. Cloward
Kayla Ann Dub
Carol Anne Ford
Christina Yoon Young Kim
Brittany Marie Larson
Lambert Lee
Guoyi Liu
Joycelin V. Lopez
Trevor W. Menchenton
Holly Ann Mulhern
Mariruth L. Overton
Elizabeth D. Purdy
Catherine Sabourin
Brieanne Louise Salzman
Lara Marie Shur
Helen Teresa Simovic
Hannah E. Weinman

DOCTOR OF BUSINESS ADMINISTRATION

Raymond Bruce Johnson
Samuel Lopez Jr.

DOCTOR OF PLANT MEDICINE

Alicia J. Kelley

THE COLLEGE OF NURSING

Dean Anna M. McDaniel

DOCTOR OF NURSING PRACTICE

Amber Lynn Bart
Lauren Monica Battaglia
Sara Rose Belmore
Bryanna Noemi Beyerlein
Raquel Nicole Bicknell
Shelby Paige Brads
Catherine Marie Brugnolotti
Kimberly Beers Castillo
Grace Shim Choe
Wendy Lucente Cleary
Caroline Lindy Collins
Sophie Katherine Cote
Brent Douglas Cox
Olivia Janelle de Jong
Cindy S. Derequito
Chiomma L. Echeazu
Jamie Lynn Englant
Zuzanna Fedak
Shaina Briann Flowers
Lauren Hope Hughes
Aila Hurem
Caroline Boudet Johnson
Alexa Joseph Joy
Amy M. Kammerer-Brannon
Katie ReNae Kauffman
Elizabeth Ansley Liufau
Gabrielle LoFranco
Megan H. Lunden
Eralene Cate Aluague Manangan
Talia Rose Maschino
Claire Marie Masforroll
Leah McCain
Kelly F. Moss
Mildred K. Myrtle
Amelia Nichols Alava
Emily Legrand Oswald
Kathryn A. Pinkston
Tonya Kay Powell
Jean Alexis Rafacz
Chandra M. Ramos
Kathleen Rose Renner
Kristin Marie Rerra
Sidney Marie Resmondo
Carly Michelle Robinson
Randall James Schrenk
Olivia B. Sims
Angela Kathleen Stalvey
Sarah Spivey Stephenson
Andrea M. Suplick-Zaffuto
Rachel A. Tax
Rae McBride Teaf
Patricia Marie Trinka-Stone
Kristen L. Troxler
Rachel Lauren Tucker
Jennifer Lynn White
Ryan Andrew Woodmansee

THE COLLEGE OF PUBLIC HEALTH AND HEALTH PROFESSIONS

Dean Michael G. Perri

DOCTOR OF PHYSICAL THERAPY

Melissa S. Balbirer
Hannah Benoit Belles
Alisa M. Bhagat
Brandi Marie Black
Luke Harrison Brown
Christopher Michael Bruscalo
Regina Camberos Rios
Aaron Andrew Capera
Ioana Daniela Cardeli
Nicole S. Casagrand
Rebecca E. Chamberlain
Nicole Diane Chase
Tommy Leon Coffey Jr.
Andrew Francis Collins
Korey D. Cooke
Sarah Burton Cooke
Nicole Cox
Anna C. Davis
Courtney Taylor Deason
Erin Lee Dickson
Abby E. Dillard
Seth M. Donelson
Soha Elsayed
Elynn B. Fangonilo
Renée Lynn Fontana
Alexander deHeptner Franklin
Mariana Rita Franz
Allison Elizabeth Gaia
Adriana Lynn Garcia
Flora Virginia Eleace Gatewood
Mutsa Mary Godza
Ryan E. Guettler
Katherine Broomfield Ihlenfeldt
Katherine M. Ingeerto
Alison Lynn Irwin
Jacob R. Irwin
Chain of Office

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

Academic Mace

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

Diplomas

Diplomas will be mailed to the graduate’s diploma mailing address in June 2020.
Caps and Gowns, An Explanation

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

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

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

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

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