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 2020.

I celebrate 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.

This is a time 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Richard Corcoran</td>
<td>Commissioner of Education</td>
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<tr>
<td>Andy Tuck</td>
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<td>Marva Johnson</td>
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<td>Ben Gibson</td>
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## Florida Board of Governors

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Marshall M. Criser III</td>
<td>Chancellor</td>
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<td>Richard Corcoran</td>
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<td>Sydney Kitson</td>
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<td>Brian Lamb</td>
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<td>Tim Cerio</td>
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<td>Aubrey Edge</td>
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<td>Patricia Frost</td>
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<td>Darlene L. Jordan</td>
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<td>Eric Silagy</td>
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<td>Kent Stermon</td>
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## University of Florida

### Board of Trustees

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Morteza &quot;Mori&quot; Hosseini</td>
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<td>Thomas G. Kuntz</td>
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<td>David L. Brandon</td>
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<td>Richard P. Cole</td>
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<td>James W. &quot;Bill&quot; 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>Trevor J. Pope</td>
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<td>Marsha D. Powers</td>
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<td>Jason J. Rosenberg</td>
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<td>Anita G. Zucker</td>
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## Deans of the University

### College of Agricultural and Life Sciences

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>R. Elaine Turner, Ph.D.</td>
<td>College of Agricultural and Life Sciences</td>
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### College of the Arts

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<tr>
<td>Onye P. Ozuzu, M.F.A.</td>
<td>College of the Arts</td>
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### Warrington College of Business

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<thead>
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<th>Name</th>
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<tbody>
<tr>
<td>Sabyasachi Mitra, Ph.D.</td>
<td>Warrington College of Business</td>
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### College of Dentistry

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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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### College of Design, Construction and Planning

<table>
<thead>
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<th>Name</th>
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<tbody>
<tr>
<td>Chimay Anumba, Ph.D.</td>
<td>College of Design, Construction and Planning</td>
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### College of Education

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<th>Name</th>
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<tr>
<td>Glenn E. Good, Ph.D.</td>
<td>College of Education</td>
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### Herbert Wertheim College of Engineering

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<tr>
<td>Cammy R. Abernathy, Ph.D.</td>
<td>Herbert Wertheim College of Engineering</td>
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### The Graduate School

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Henry T. Frierson, Ph.D.</td>
<td>The Graduate School</td>
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### College of Health and Human Performance

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<tr>
<td>Michael Reid, Ph.D.</td>
<td>College of Health and Human Performance</td>
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### IFAS Extension

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<th>Name</th>
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<tr>
<td>Nick Place, Ph.D.</td>
<td>IFAS Extension</td>
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### IFAS Research

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<tr>
<td>Robert Gilbert, Ph.D.</td>
<td>IFAS Research</td>
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</table>

## President and Vice Presidents of the University

### W. Kent Fuchs, Ph.D.

**President**

### Joseph Glover, Ph.D.

**Provost and Senior Vice President - Academic Affairs**

### Chris Cowen, M.B.A.

**Senior Vice President and Chief Financial Officer**

### Charles E. Lane, D.P.A.

**Senior Vice President and Chief Operating Officer - Administration**

### David R. Nelson, M.D.

**Senior Vice President - Health Affairs**

### J. Scott Angle, Ph.D.

**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 – Strategic Communications and Marketing**

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

**Vice President - Business Affairs**

### 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**

### J. 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.

**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**
Kimberly Paige Boatright Abbott  
Major: Anthropology  
Dissertation: Repressed Memory of Slavery in Antebellum Plantation Sites: Writing against Whitewashing  
Dissertation Chair: P. R. Schmidt  
Dissertation Co-chair: M. J. Heckenberger

Ali H. Abdulrahim  
Major: Mechanical Engineering  
Dissertation: Thermodynamic Analysis of Conventional and Alternative Energy Conversion Pathways for the Simultaneous Generation of Power and Desalination of Water in Kuwait  
Dissertation Chair: J. N. Chung

Nicholas J. Abuid  
Major: Biomedical Engineering  
Dissertation: Engineering Cerium Oxide Nanoparticle Coatings for Antioxidant/Anti-Inflammatory Protection of Biomaterials and Tissue Grafts  
Dissertation Chair: C. Stabler Anderson

Alireza Adibfar  
Major: Design, Construction and Planning  
Dissertation: Fusion of Intelligent Transportation Systems (ITS) Data and Bridge Information Modeling (BrIM) for Interoperability of Sensor Data  
Dissertation Chair: A. M. Costin

Elijah Odhiambo Adongo  
Major: Music Education  
Dissertation: Pedagogical Strategies for Developing Style(s) and Conceptual Knowledge of Contemporary African Choral Music  
Dissertation Chair: M. M. Davitt

Tanvi Anil Ajantiwalay  
Major: Materials Science and Engineering  
Dissertation: In-situ Micromechanical Characterization of Proton-Irradiated Structural Steels for Generation-IV Reactors  
Dissertation Chair: A. Aitkaliyeva

Ali Kareem Shayyish Al Quarishi  
Major: Environmental Engineering Sciences  
Dissertation: Ecohydrological Degradation and Restoration of the Mesopotamian Marshlands  
Dissertation Chair: D. A. Kaplan

Yasmine A. Alabbasi  
Major: Nursing Sciences  
Dissertation: Maternal Voice Exposure and Its Effect on Respiratory Support and Feeding Milestones in Premature Infants  
Dissertation Chair: C. A. Krueger

Abdulrahman M. Alaql  
Major: Electrical and Computer Engineering  
Dissertation: Scalable and Robust Hardware IP Protection  
Dissertation Chair: S. Bhunia
Arash Alborzi  
Major: Design, Construction and Planning  
Dissertation: Feasibility of Urban Agriculture in Existing Cities: The Case of Gainesville, Florida  
Dissertation Chair: M. A. Gold

Ricardo Iván Alcalá Briseño  
Major: Plant Pathology  
Dissertation: Virome Network Analysis: A Network Framework for Studying Landscape Agroecology of Plant Viromes for Disease Management  
Dissertation Chair: K. A. Garrett

Jose Daniel Alcantara  
Major: Biomedical Engineering  
Dissertation: Self-Induced Neural Modulation under Real-Time Neurofeedback for Stereotactic Electroencephalography  
Dissertation Chair: A. Gunduz

Rawan Aldhabi  
Major: Rehabilitation Science  
Dissertation: The Effect of Hip Abductor Muscles' Strength on Balance and Gait following Total Knee Arthroplasty  
Dissertation Chair: M. Horodyski

Sulaiman K. Al-Qallaf  
Major: Chemical Engineering  
Dissertation Chair: O. D. Crisalle

David M. Anderson  
Major: Zoology  
Dissertation: Broad Scale Perspectives on the Interplay between Life History and Population Ecology  
Dissertation Chair: J. F. Gillooly

Wesley Michael Anderson  
Major: Wildlife Ecology and Conservation  
Dissertation: Impacts of an Invasive Ecosystem Engineer upon Wetlands and Aquatic Communities across a Subtropical Agroecosystem  
Dissertation Chair: R. K. Boughton

Jacob T. Andring  
Major: Medical Sciences—Biochemistry and Molecular Biology  
Dissertation: Mechanism and Inhibition of Carbonic Anhydrase  
Dissertation Chair: R. McKenna

Aline Fabiana Angotti Carrara  
Major: Geography  
Dissertation: The Struggle for Indigenous Territory in the Brazilian Amazon  
Dissertation Chair: R. T. Walker  
Dissertation Co-chair: C. S. Simmons

Malak Anshassi  
Major: Environmental Engineering Sciences  
Dissertation: Evaluating the Use of Sustainable Materials Management in Rethinking Solid Waste Management and Policies  
Dissertation Chair: T. G. Townsend

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
Scott D. Augustine  
Major: *Environmental Engineering Sciences*  
Dissertation: Novel Methods for Quantifying Vertical Darcy Flux at the Surface Water-Groundwater Sediment Interface  
Dissertation Chair: M. D. Annable

Steevie Lyn Bailey  
Major: *Counseling and Counselor Education*  
Dissertation: Correctional Officer Perceptions of a Prison-Based Animal Program Implemented at a Southern U.S. Correctional Facility  
Dissertation Chair: J. Swank

Enrico Rey Barrozo  
Major: *Genetics and Genomics*  
Dissertation: Defining Herpes Simplex Virus 1 Latency One Cell at a Time  
Dissertation Chair: D. C. Bloom

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

Shinibali Bhattacharyya  
Major: *Physics*  
Dissertation: Effects of Electronic Correlations on Physical Properties of Unconventional Superconductors  
Dissertation Chair: P. J. Hirschfeld

Shaheen Bibi  
Major: *Plant Pathology*  
Dissertation: Role of Metals in Plant-Microbe Interactions  
Dissertation Chair: J. B. Jones  
Dissertation Co-chair: G. S. Ali

Waleed Abdulrahman Z. Bin Masoud  
Major: *Agricultural and Biological Engineering*  
Dissertation: Improving the Efficiency to Cool Greenhouses through the Use of a Liquid Desiccant and Regeneration System  
Dissertation Chair: M. J. Correll  
Dissertation Co-chair: R. A. Bucklin

Nichole Danielle Bishop  
Major: *Interdisciplinary Ecology*  
Dissertation: A Nutritional Ecology Study of *Dermatemys mawii*, A Critically Endangered Species of Fresh-Water Turtle Endemic to Central America  
Dissertation Chair: R. R. Carthy  
Dissertation Co-chair: K. A. Bjorndal

Alexandra Bitton Bailey  
Major: *Higher Education Administration*  
Dissertation: A Phenomenological Study of New and Early Career Faculty in an Accelerated Faculty Learning Community  
Dissertation Chair: C. Haynes

John Konuk Blasing  
Major: *Sociology*  
Dissertation: Sports, Nationalism, and Globalization: An Ethnography of Turkish Football Fandom  
Dissertation Chair: T. Sorek

Ellen Kathleen Bledsoe  
Major: *Interdisciplinary Ecology*  
Dissertation: The Role of Patch- and Landscape-Level Processes in Shaping Desert Rodent Communities  
Dissertation Chair: S. K. Ernest
Ke Bo
Major: Biomedical Engineering
Dissertation: Neural Mechanism of Affective Scene Perception
Dissertation Chair: M. Ding

Eve Bohnett
Major: Design, Construction and Planning
Dissertation: Assessing Landscape Biodiversity Using Complex Spatio-Temporal Models
Dissertation Chair: T. S. Hoctor

Josephine Michelle Brown
Major: Medical Sciences—Immunology and Microbiology
Dissertation: Skewed Tryptophan Metabolism Contributes to Disease Pathogenesis in a Lupus-Prone Mouse Model by Impacting T Cell Phenotypes
Dissertation Chair: L. M. Morel

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

Taylor Lynae Buchanan
Major: Health and Human Performance
Dissertation: Motor Performance Outcomes following Changes in Breathing Frequency
Dissertation Chair: C. M. Janelle

John M. Cain
Major: Chemistry
Dissertation: Mechanisms for Emergent Behavior Derived from Interface Strain in Nanoscale Spin Transition Heterostructures
Dissertation Chair: D. R. Talham

Gabriel E. Campbell
Major: Horticultural Sciences—Environmental Horticulture
Dissertation: Conservation, Greenhouse Production, and Restoration Outplantings of Sandhill Milkweed (Asclepias humistrata)
Dissertation Chair: M. Thetford
Dissertation Co-chair: D. L. Miller

Sean Michael Campbell
Major: Horticultural Sciences—Environmental Horticulture
Dissertation: Butterfly Pea (Clitoria ternatea) Growth, Development, and Flower Production and Quality in Florida and North America
Dissertation Chair: B. J. Pearson
Dissertation Co-chair: S. C. Marble

Clímaco David Cañarte Gutiérrez
Major: Sociology
Dissertation: Migration, Social Support, and Health in Immigrant Communities: A Study on Roma in France and Immigrant Farmworkers in Florida
Dissertation Chair: R. Vacca

Francesco Cappai
Major: Plant Molecular and Cellular Biology
Dissertation: Developing Advanced Genetic, Tissue Culture and Molecular Technologies to Enable Machine Harvesting in Low-Chill Blueberry (Vaccinium corymbosum L.)
Dissertation Chair: P. R. Muñoz

Nathan Scott Catlin
Major: Botany
Dissertation: Conserved Alternative Splicing and Its Interplay with Gene Duplication and Population Evolution
Dissertation Chair: W. B. Barbazuk
Subodha Charles
Major: Computer Science
Dissertation: Design of Secure and Trustworthy Network-On-Chip Architectures
Dissertation Chair: P. K. Mishra

Vratika Chaudhary
Major: Wildlife Ecology and Conservation
Dissertation: State Uncertainty across Scales—From Pathogens in Individuals to a Community of Mammals
Dissertation Chair: M. K. Oli
Dissertation Co-chair: V. R. Goswami

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

Timothy Dale Clingenpeel
Major: Electrical and Computer Engineering
Dissertation Chair: Y. K. Yoon

Samantha W. Coberly
Major: Anthropology
Dissertation: Broken Hearts and Broken Ribs an Examination of Gunshot Wounds to the Neck and Torso
Dissertation Chair: J. Krigbaum

Conrad R. Cole
Major: Mechanical Engineering
Dissertation: Thermodynamic Analysis of Oxygen Vacancy Formation Reaction in Nonstoichiometric Oxides for Solar Energy Conversion and Storage
Dissertation Chair: D. W. Hahn
Dissertation Co-chair: C. Taylor

Evan M. Craig
Major: Microbiology and Cell Science
Dissertation: Evaluation of Retro-2 Structural Activity Relationship Analogs and Polymer Encapsulation Procedures for Improvement of Treatment Efficacy against Leishmania Sp. Infection
Dissertation Chair: P. E. Kima

Stephen J. Crawford
Major: Civil Engineering
Dissertation: Development of Bearing Capacity Factors and LRFD Load and Resistance Factors for Shallow Foundations Subjected to Combined Lateral and Axial Loading
Dissertation Chair: M. C. McVay
Dissertation Co-chair: S. J. Wasman

Lais Da Silva
Major: Pharmaceutical Sciences
Dissertation: Therapeutic Impairment of Acinar Ductal Metaplasia in Murine Pancreatic Three-Dimensional Organoids
Dissertation Chair: T. D. Schmittgen

Anis Davoudi
Major: Biomedical Engineering
Dissertation: Intelligent Monitoring of Patients in the Acute Care Setting
Dissertation Chair: P. Rashidi

Afiya Shalla De Sormeaux
Major: Agricultural Education and Communication
Dissertation: Food Waste Behavior among College Students—Drivers and Communication Strategies
Dissertation Chair: L. K. Lundy
Alia N. DeLong  
Major: Interdisciplinary Ecology  
Dissertation Chair: M. E. Swisher  
Dissertation Co-chair: C. A. Chase

Kelly M. DeMars  
Major: Medical Sciences—Neuroscience  
Dissertation: Blocking BET Protein Activity is Neuroprotective in Ischemic Stroke  
Dissertation Chair: E. J. Candelario Jalil

David T. Dillon  
Major: Anthropology  
Dissertation: Risk Perceptions as Potential Mediators of Environmental Toxicants Associated with Biomass Fuel Use  
Dissertation Chair: C. McCarty

Florian Diot-Néant  
Major: Chemistry  
Dissertation: Green Synthesis of Bio-Based Monomers from Cellulose-Based Levoglucosenone and Preparation of Polyacrylates and Polyesters: Investigating More Sustainable Materials  
Dissertation Chair: S. A. Miller

Elliott William Dirr  
Major: Biomedical Engineering  
Dissertation: Treatment of Cardiometabolic Dysfunction Using Targeted Parasympathetic Neuromodulation  
Dissertation Chair: K. Otto

Bayli B. DiVita Dean  
Major: Medical Sciences—Immunology and Microbiology  
Dissertation: Gliomas Alter HSPC Gene Expression and Impact the Immune System  
Dissertation Chair: C. Flores

Erica E. Dolinting  
Major: Health and Human Performance  
Dissertation: Message Appeals on Information Sharing and Giving Behaviors in Charity Running Events for Homeless People: The Roles of Elevation and Trust Propensity  
Dissertation Chair: Y. J. Ko

Yuzhu Dong  
Major: Human-Centered Computing  
Dissertation: Expressive Eyes and Bodies: Tracking, Algorithms, Evaluation  
Dissertation Chair: E. Jain

Jacqueline A. Donovan  
Major: Higher Education Administration  
Dissertation: Essays on the Community College Baccalaureate: A Multi-Level Policy Analysis  
Dissertation Chair: D. A. Kramer

Ana Paula Dos Santos De Carvalho  
Major: Entomology and Nematology  
Dissertation: The Evolution of the Sphragis in Butterflies  
Dissertation Chair: A. Kawahara

Stefanie Kathrin Drescher  
Major: Pharmaceutical Sciences  
Dissertation: Evaluating the Pulmonary Fate of Inhaled Therapeutics via Computational Modeling  
Dissertation Chair: G. Hochhaus  
Dissertation Co-chair: J. B. Bulitta

Xiaochen Du  
Major: Curriculum and Instruction  
Dissertation: English Speaking Students’ Learning Experiences in a Dual Language Immersion Program  
Dissertation Chair: D. Fu
Shiyu Duan  
**Major:** Electrical and Computer Engineering  
**Dissertation:** Unifying Kernel Methods and Neural Networks and Modularizing Deep Learning  
**Dissertation Chair:** J. C. Príncipe

Lisa G. Duffy  
**Major:** Anthropology  
**Dissertation:** Using Residue Analysis to Explore Ancient Maya Recipes and Food-Processing Technology  
**Dissertation Chair:** K. F. Emery

Stacey Lyn Ellison  
**Major:** Agricultural Education and Communication  
**Dissertation:** Assessing Work Engagement among UF/IFAS Extension Agents Using the Utrecht Work Engagement Scale  
**Dissertation Chair:** A. M. Harder

Gayle Nelson Evans  
**Major:** Curriculum and Instruction  
**Dissertation:** Characterization of Social Network Formation and Associated Mentoring Functions in a Summer Research Experience for Teachers  
**Dissertation Chair:** K. J. Crippen

Feifei Fan  
**Major:** Curriculum and Instruction  
**Dissertation:** When East Meets West: Exploring Identities of Chinese ESOL Teacher Candidates in the U.S.-Based Practicum  
**Dissertation Chair:** E. J. De Jong

Ziqi Fan  
**Major:** Electrical and Computer Engineering  
**Dissertation:** Implementation of a Parallel Broadband Numerical Solver for Helmholtz Equation Using Fast Multipole Boundary Element Method on Heterogeneous Systems and Its Application to Simulation of Head-Related Transfer Functions  
**Dissertation Chair:** K. McMullen

Shaheen Farhadi  
**Major:** Biomedical Engineering  
**Dissertation:** Synthetic Control of Galectin-3 Oligomerization: Emerging Concepts and Biomedical Applications  
**Dissertation Chair:** G. Hudalla

Tiffany Leigh Fisher  
**Major:** Special Education  
**Minor:** Research and Evaluation Methodology  
**Dissertation:** Roles and Preparedness in Multi-Tiered Systems of Support: A Survey of Florida Elementary Special Educators  
**Dissertation Chair:** P. T. Sindelar

Brett A. Fleisher  
**Major:** Pharmaceutical Sciences  
**Dissertation:** Systems-Based Modeling Approaches for Improving Triple-Negative Breast Cancer Patients' Outcomes  
**Dissertation Chair:** J. B. Bulitta

Zhenyu Fu  
**Major:** Nuclear Engineering Sciences  
**Dissertation:** Understanding the Microstructure and Fission Products of Post-Irradiated TRISO Fuel  
**Dissertation Chair:** Y. Yang  
**Dissertation Co-chair:** I. Van Rooyen

Rodrigo Furtado Dos Santos  
**Major:** Plant Molecular and Cellular Biology  
**Dissertation:** Optimizing Genome-Wide Selection for Forest Tree Breeding  
**Dissertation Chair:** M. Kirst  
**Dissertation Co-chair:** M. F. Ribeiro De Resende Jr.
Murielle Gammons
Major: Higher Education Administration
Minor: Leadership Development
Dissertation Chair: C. Haynes

Aasrith Ganti
Major: Electrical and Computer Engineering
Dissertation: Wireless Power in the MRI System
Dissertation Chair: J. Lin

Drake Mitchel Ginter Garner
Major: Plant Molecular and Cellular Biology
Dissertation: Understanding How Environmental Treatments Affect Floral Volatiles, Investigating Possible Commercial Applications, and Bringing Model Science into Education
Dissertation Chair: T. A. Colquhoun
Dissertation Co-chair: K. M. Folta

Callie Elizabeth Gilchrest
Major: School Psychology
Dissertation: Preschooler Executive Functioning and Teachers’ Perceptions of Student-Teacher Relationships
Dissertation Chair: T. M. Smith-Bonahue

Scarlett Godinez
Major: Chemistry
Dissertation: Modification of Thiol-ene Films for Improved Material Properties
Dissertation Chair: V. D. Kleiman

Melissa Gonzalez
Major: School Psychology
Dissertation: Lived Experiences of the Diagnostic Process and Symptom Interpretation among Puerto Rican Mothers with a Child with Autism Spectrum Disorder
Dissertation Chair: T. M. Smith-Bonahue

Kyle Brandon Griffin
Major: Agricultural and Biological Engineering
Dissertation: A Kinetic Model for Methyllosinus trichosporium OB3b Utilization of Synthetic Food Waste-Derived Biogas for Growth and Polyhydroxybutyrate Production
Dissertation Chair: P. C. Pullammanappallil
Dissertation Co-chair: S. A. Svoronos

Adam Blaine Grossman
Major: Microbiology and Cell Science
Dissertation: Global Dysregulation of Staphylococcus aureus Homeostasis from Treatment with Soluble Lignin
Dissertation Chair: K. C. Rice
Dissertation Co-chair: W. Vermerris

Zhen Guan
Major: Forest Resources and Conservation
Dissertation: Using High-Resolution Ground-Based Imagery for Strawberry Biophysical Parameter Estimation and Radiative Transfer Modeling
Dissertation Chair: A. H. Abd-Elrahman

Yu Han
Major: Design, Construction and Planning
Dissertation: Agent-Based Modeling of Human-Environment Interactions in Coastal Flood Adaptation
Dissertation Chair: Z. R. Peng
Natalie Ann Harrison
Major: *Microbiology and Cell Science*
Dissertation: *Lactobacillus johnsonii N6.2-Derived Nanovesicle Components as Driving Factors to T1D Prevention*
Dissertation Chair: G. L. Lorca

Kelly Ann Hawkins
Major: *Rehabilitation Science*
Dissertation: *Walking Control after Stroke and the Feasibility of Transcutaneous Spinal Direct Current Stimulation during Locomotor Training after Spinal Cord Injury*
Dissertation Chair: E. J. Fox

Ru He
Major: *Chemistry*
Dissertation: *Novel Trans-N-Heterocyclic Carbene Platinum(II) Complexes*
Dissertation Chair: K. S. Schanze

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

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

Charles D. Hernandez
Major: *Industrial and Systems Engineering*
Dissertation: *Data Driven Optimization and Its Applications*
Dissertation Chair: H. Liu
Dissertation Co-chair: E. Akcali

Viyaktha Hithaishi Hewageegana
Major: *Coastal and Oceanographic Engineering*
Dissertation: *Improving the Modeling of Onshore Sandbar Migration and Beach Recovery*
Dissertation Chair: A. Canestrelli

Jessica N. Hightower
Major: *Interdisciplinary Ecology*
Dissertation: *The Response of Bird Communities to Logging, Fragmentation, and Conversion to Oil Palm Plantations in Borneo*
Dissertation Chair: R. J. Fletcher Jr.

Harold Allen Hollis
Major: *Physics*
Dissertation: *Data Analysis, Mirror Coating Design, and Custom Electronics for the Any Light Particle Search Experiment*
Dissertation Chair: G. Mueller

Xiaohui Huang
Major: *Computer Science*
Dissertation: *Video-Based Machine Learning for Intelligent Transportation Systems*
Dissertation Chair: S. Ranka
Dissertation Co-chair: A. Rangarajan

Tony Harvey Hughes
Major: *Entomology and Nematology*
Dissertation: *Ground-Dwelling Ant (Hymenoptera: Formicidae) Composition, Distribution, and Diversity in Relation to Vegetation and Habitat Quality of Protected Longleaf Pine Forests in Florida Sandhills*
Dissertation Chair: P. G. Koehler
Mary Elizabeth Ibarrola  
Major: Anthropology  
Dissertation: Placemaking in the Borderland: An Archaeological Perspective on the African Diaspora within Colonial Florida  
Dissertation Chair: J. M. Davidson

Lorelie Dela Fuente Imperial  
Major: Curriculum and Instruction  
Dissertation: A Sensemaking Perspective on Graduate Teaching Assistants' Knowing and Planning for Model-Based Reasoning  
Dissertation Chair: K. J. Crippen

Fernanda Iruegas Bocardo  
Major: Plant Pathology  
Dissertation: Population Biology Study of Xanthomonas euvesicatoria and X. perforans in Florida  
Dissertation Chair: E. M. Goss

Fatemah A. Jamal  
Major: Interdisciplinary Ecology  
Dissertation: Ecology and Systematics of Irregular Echinoids (Echinoids, Echinodermata) and Associated Pea Crabs (Crustacea, Arthropoda) from the Gulf of Mexico and Bahamas  
Dissertation Chair: M. Kowalewski

Johanna Ruth Jantzen  
Major: Botany  
Dissertation: Evolution of Neotropical Tibouchina sensu stricto (Melastomataceae)  
Dissertation Chair: P. S. Soltis  
Dissertation Co-chair: D. E. Soltis

SuKyung Jeon  
Major: Chemistry  
Dissertation: Design and Synthesis of Different Heterostructures Using Prussian Blue Analogues  
Dissertation Chair: D. R. Talham

Xinyi Jiang  
Major: Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy  
Dissertation: The Cascade of Hepatitis C Virus Care among Individuals with Substance Use Disorders  
Dissertation Chair: H. Park

Hailey A. Johnson  
Major: Geology  
Minor: Curriculum and Instruction  
Minor: Electrical and Computer Engineering  
Dissertation: Reusable Geoscientific Software Design and Applications in Coastal Morphology Research and Education  
Dissertation Chair: P. N. Adams  
Dissertation Co-chair: J. A. Fortes

Verlin W. Joseph  
Major: Epidemiology  
Dissertation Chair: R. L. Cook

Congwen Kan  
Major: Design, Construction and Planning  
Dissertation: A Cyber-Physical Systems (CPS) Approach to Planning and Operation of Mobile Cranes  
Dissertation Chair: C. J. Anumba

Renita Kay Kastner Wilcox  
Major: Soil and Water Sciences  
Dissertation: Multidisciplinary Modeling to Explore the Risk Perception of Soil Degradation and the Eco-Efficiency of Phosphorus in South Florida  
Dissertation Chair: S. Gerber
Mahshad Kazem Zadeh
Major: Design, Construction and Planning
Dissertation: Uncovering Myths and Realities of Nurses’ Perceptions of Safe Patient Rooms for Fall-Risk Patients: A Comparative Analysis of Space Syntax and Nurses’ Perceptions
Dissertation Chair: S. Ahrentzen

Colin Patrick Kearney
Major: Mass Communication
Dissertation: Regionalism in Prime-Time: An Examination of the American South on Television
Dissertation Chair: R. Rodgers

Robin Hendrikus Johannes Kemperman
Major: Chemistry
Dissertation: Enhanced Confidence in Metabolite Identification and Innovative Approaches for Improved Ion Mobility Separations
Dissertation Chair: R. A. Yost

Alexandria Elizabeth Kesterson
Major: Medical Sciences—Immunology and Microbiology
Dissertation: Ciprofloxacin Immunomodulatory Properties in a Pneumonic Model of Yersinia pestis
Dissertation Chair: C. H. Heine

Kwanmok Kim
Major: Interdisciplinary Ecology
Dissertation: How Does Structural Complexity Affect Species Composition
Dissertation Chair: P. C. Frederick

Jeannie M. Klein-Gordon
Major: Plant Pathology
Dissertation: Xanthomonas perforans: Population Shifts over Time in Florida and Exploration of Secret Weapons for Keeping Its Competitors at Bay
Dissertation Chair: E. M. Goss
Dissertation Co-chair: J. B. Jones

James William Kline
Major: Curriculum and Instruction
Dissertation: Educational Technology Project Management Effectiveness Factors across Industry Sectors: A Web-Based Classical Delphi Study
Dissertation Chair: A. D. Ritzhaupt

Unmesh Koirala
Major: Forest Resources and Conservation
Dissertation: Economic Feasibility of Incentivizing Farm/Forest Water Conservation-Based Practices in the Upper Floridan Aquifer
Dissertation Chair: D. Adams

Leslie M. Kollar
Major: Botany
Dissertation: The Genetic Basis of Volatile Production in the Moss Ceratodon purpureus
Dissertation Chair: S. McDaniel

Venkata Surya Chaitanya Kolluru
Major: Materials Science and Engineering
Dissertation: Computational Methods and Algorithms for the Prediction of Surface Structures and Properties
Dissertation Chair: R. Hennig

Sara J. Komenda
Major: Forest Resources and Conservation
Dissertation: Exploring the Use of Smart Irrigation Systems for Residential Water Conservation
Dissertation Chair: M. C. Monroe
Tadbhagya Kumar
Major: Mechanical Engineering
Dissertation: Eulerian Thermo-Mechanical Simulations of Heterogeneous Solid Propellants Using an Approximate Projection Method
Dissertation Chair: T. L. Jackson

Ethan Kutlu
Major: Linguistics
Dissertation: Perception in Context: The Effect of Multilingualism and Race on Accentedness Judgments
Dissertation Chair: S. Wulff

Faith N. Lambert
Major: Veterinary Medical Sciences
Dissertation: The Endocrine Disrupting Effects of Select Ultraviolet-Filters to Daphnia magna and Novel Methods for Determining Endocrine Disruption in Arthropods
Dissertation Chair: C. D. Vulpe

Kalindhi A. Larios Mendieta
Major: Soil and Water Sciences
Dissertation: Exploration of Phosphorus Fluxes in the Everglades Stormwater Treatment Areas Using a System Dynamics Approach
Dissertation Chair: S. Gerber

Kangjae Lee
Major: Mechanical Engineering
Dissertation: A Laser-Based Heating System Coupled with In-Operando Raman Spectroscopy for Studying Solar Thermochemical Redox Cycles of Ceria and LSM Perovskites
Dissertation Chair: J. Scheffe

Michele Catherine Lee
Major: English
Dissertation: Drawing the Boundaries of a Genre: Defining the Asian American Children's Novel
Dissertation Chair: K. B. Kidd

Sang-Bin Lee
Major: Entomology and Nematology
Dissertation: Task Allocation, Age Polyethism and Foraging Behaviors of the Formosan Subterranean Termite
Dissertation Chair: N. Su

Allison Jane Levy
Major: Chemistry
Dissertation: Anabolic Steroids: Cationization, Dimerization, and Ion Mobility Separation
Dissertation Chair: R. A. Yost

Jingwei Li
Major: Curriculum and Instruction
Dissertation: Elementary Students' Mathematics Learning and Anxiety in a Game-Based Adaptive Learning Platform: An Individual Differences Perspective
Dissertation Chair: P. Antonenko

Ying Li
Major: Medical Sciences—Immunology and Microbiology
Dissertation Chair: C. Stabler Anderson

Jiapu Liang
Major: Biomedical Engineering
Dissertation: Engineering a Favorable Microenvironment for Islet Transplantation within an Extrahepatic Site
Dissertation Chair: C. Stabler Anderson
Peter Robert Licari  
Major: *Political Science*  
Dissertation: *Press B to March: The Effects of Video Games on Political Behavior*  
Dissertation Chair: M. D. Martinez

Catherine Lippi  
Major: *Geography*  
Minor: *Entomology and Nematology*  
Dissertation Chair: S. J. Ryan

Kai Liu  
Major: *Mechanical Engineering*  
Dissertation: *Systematic Evaluation and Improvement of Euler-Lagrange Methodology: Application to Spray Control*  
Dissertation Chair: S. Balachandar

Jasmine Lopez  
Major: *Horticultural Sciences*  
Dissertation: *Discovery, Fine Mapping, and Characterization of Graywall Resistance Loci in Tomato*  
Dissertation Chair: S. F. Hutton

Shihan Ma  
Major: *Health and Human Performance*  
Dissertation: *Tourist Perception and Response to Climate Change: A Big Data Analysis on Tourist Social Media*  
Dissertation Chair: A. P. Kirilenko

Conor MacDonnell  
Major: *Soil and Water Sciences*  
Dissertation: *An Investigation of Physical and Chemical Restoration Techniques on the Success and Biogeochemistry of Subtropical Seagrass Ecosystems*  
Dissertation Chair: P. W. Inglett

Naja Amanda Mack  
Major: *Human-Centered Computing*  
Dissertation: *Icon History: An Intelligent Conversational History Tutor*  
Dissertation Chair: J. E. Gilbert

Mhairi Katriona MacLean  
Major: *Biomedical Engineering*  
Dissertation: *Biomechanics of Walking with Mechanical Assistance: From a Robotic Exoskeleton or Partial Bodyweight Support*  
Dissertation Chair: D. P. Ferris

Hoda Manafian  
Major: *Health and Human Performance*  
Dissertation: *Agritourism Development: Definition, Preferences, and Spatial Distribution in Florida*  
Dissertation Chair: H. J. Gibson  
Dissertation Co-chair: A. M. Almeyda Zambrano

Paige Elizabeth Mandolare-Ruiz  
Major: *Chemistry*  
Dissertation: *Chemical Signaling in Marine Fungal and Coral Systems*  
Dissertation Chair: S. Loesgen

Sergio Marconi  
Major: *Interdisciplinary Ecology*  
Dissertation: *Disentangling the Role of Ecological Drivers on Forest Biological Dimensions across Scales*  
Dissertation Chair: E. P. White
Felicien Masanga Maisha Sr.
Major: Anthropology
Dissertation: Exploring Manhood, Masculinities and the Roles of Men regarding Pregnancy and Childbirth in a Humanitarianized War Zone of Eastern Democratic Republic of Congo
Dissertation Chair: A. E. Strong
Dissertation Co-chair: C. J. Mulligan

Joseph Thomas McNeil
Major: Physics
Dissertation: Branching Ratio Measurements of $\Xi_c^0$ Decays Using Amplitude Analysis Techniques at Belle and Belle II
Dissertation Chair: J. M. Yelton

Vikram Dilip Mehar
Major: Chemical Engineering
Dissertation: Structure and Reactivity of Palladium Oxides and Palladium - Silver Oxide Bimetallic Interfaces
Dissertation Chair: J. F. Weaver

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

Shashank Menon
Major: Civil Engineering
Dissertation: Multiphysics Induced Failure in Porous Media under Static and Dynamic Conditions
Dissertation Chair: X. Song

Mouloud Messaoudi
Major: Design, Construction and Planning
Dissertation: BIM-Based Virtual Permitting Review Process for Residential Building in the State of Florida
Dissertation Chair: N. O. Nawari

Sreenivasan Meyyappan
Major: Biomedical Engineering
Dissertation: Neuronal Mechanisms of Spatial and Feature Attention Control
Dissertation Chair: M. Ding

Patrick Devin Milligan
Major: Zoology
Dissertation: Carbon Fixation and Plant Performance for an East African Ant-Plant Occupied by Native and Invasive Ants
Dissertation Chair: T. Palmer

Katsutoshi Mizuta
Major: Soil and Water Sciences
Minor: Food and Resource Economics
Dissertation: Interfacing Pedometrics and Econometrics to Model the Efficiency of Soil-Ecosystem Functions at Regional Scale
Dissertation Chair: S. Grunwald

Shirley Nelly Morque
Major: Design, Construction and Planning
Dissertation Chair: R. Ries

Hossein Mosavi
Major: Civil Engineering
Dissertation: Long-Term Electrical and Transport Properties of Concrete
Dissertation Chair: K. A. Riding
Mohammad Moulod  
Major: Mechanical Engineering  
Dissertation: Science and Engineering of a Wearable Artificial Kidney  
Dissertation Chair: S. Moghaddam

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

Nasser Nassiri Koopaei  
Major: Pharmaceutical Sciences  
Dissertation: Drug Delivery to Brain Using Neural Stem Cell Exosomes  
Dissertation Chair: T. D. Schmittgen

Zoliswa Nombulelo Nhleko  
Major: Interdisciplinary Ecology  
Dissertation: The Poaching Epidemic on White Rhino Demography, Distribution, Behaviour and Physiology  
Dissertation Chair: R. A. McCleery

Benjamin Michael Nichols  
Major: Horticultural Sciences  
Dissertation: Characterizing the Fs Locus from C. x kinokuni 'Mukaku Kishu'  
Dissertation Chair: J. X. Chaparro

Cristina Cecilia Nuñez Godoy  
Major: Interdisciplinary Ecology  
Dissertation: Improving Payments for Ecosystem Service Programs in a Global Deforestation Hotspot: The Gran Chaco of Argentina  
Dissertation Chair: E. F. Pienaar  
Dissertation Co-chair: L. C. Branch

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

Kaitlynn P. Olczak  
Major: Biomedical Engineering  
Dissertation: Coatings for Improving the Performance of Neural Interfaces  
Dissertation Chair: K. Otto

Joseph D. Olivera  
Major: Nutritional Sciences  
Dissertation: Roles of ZIP14 in Iron Overload-Related Endocrinopathies  
Dissertation Chair: M. D. Knutson

Ayodeji Abayomi Otufowora  
Major: Epidemiology  
Dissertation: Factors that Influence Generational Navigation to and Enrollment in Health Research among Community-Residing Older Adults in North Central Florida  
Dissertation Chair: L. B. Cottler

Andres Santiago Paleo Torres  
Major: Civil Engineering  
Dissertation: Modeling Residential Infrastructure Vulnerability to Hurricane Induced Coastal Flood  
Dissertation Chair: K. R. Gurley
John Yong Park  
**Major:** Botany  
**Dissertation:** Quantifying Leaf Phenology of Tropical Forest Canopy Trees and Species from UAV Images and Its Relationship to Plant Functional Traits  
**Dissertation Chair:** J. W. Lichstein

Brittany D. Partain  
**Major:** Biomedical Engineering  
**Dissertation:** The Articular Joint as an Organ System: Advancing Our Understanding of Tissue Interactions in Healthy and Osteoarthritic Joints  
**Dissertation Chair:** K. Allen  
**Dissertation Co-chair:** J. P. Dobson

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

Trushant Khilan Patel  
**Major:** Aerospace Engineering  
**Dissertation:** Analysis of Supersonic Jet Noise in the Sideline and Upstream Directions Using the Navier-Stokes Equations  
**Dissertation Chair:** S. A. Miller

Pornpamol Pattamanont  
**Major:** Animal Sciences  
**Dissertation:** Relationships of Dry Period Length with Milk Yield, Culling, Reproduction, and Economics in the Subsequent Lactation of Dairy Cows  
**Dissertation Chair:** A. De Vries

Felipe Machado Pinheiro  
**Major:** Interdisciplinary Ecology  
**Dissertation:** Silvopastoral Management of the Brazilian Drylands: Soil Carbon Sequestration and Farmers-Managed Restoration of Native Vegetation  
**Dissertation Chair:** R. P. Nair  
**Dissertation Co-chair:** V. D. Nair

David M. Plotkin  
**Major:** Entomology and Nematology  
**Dissertation:** Systematics of the Emerald Moths (Lepidoptera: Geometridae: Geometrinae)  
**Dissertation Chair:** A. Kawahara

Joachim L. Polack  
**Major:** Music  
**Dissertation:** Samba do Avião: Transnationalism and Modernity in Antônio Carlos Jobim’s Early 1970s Repertoire  
**Dissertation Chair:** L. N. Crook  
**Dissertation Co-chair:** S. dos Santos

Karyn Elise Pounds  
**Major:** Agricultural and Biological Engineering  
**Dissertation:** Fabrication of Bio-Based Intelligent Copolymer Film with Computational Technology for the Real-Time Food Quality Monitoring and Protection  
**Dissertation Chair:** Z. Tong  
**Dissertation Co-chair:** M. J. Correll

Kimberly Danielle Prince  
**Major:** Environmental Engineering Sciences  
**Dissertation:** Mechanisms and Drivers of Polychlorinated Biphenyl Biomagnification  
**Dissertation Chair:** C. Angelini
Niels Olduvai Proctor
Major: Forest Resources and Conservation
Dissertation: Assessing the Use and Benefits of Online Self-Directed Retrieval Practice in the Context of an Undergraduate Plant Identification Course
Dissertation Chair: M. C. Monroe
Dissertation Co-chair: P. Antonenko

Pamala Pamandus Proverbs
Major: Mass Communication
Dissertation: Expanding the Boundaries of Public Relations Research to Build a Framework to Address Episodic Framing of Gender-Based Violence in the Caribbean
Dissertation Chair: S. K. Kiousis

Paulina H. Quijia-Lamiña
Major: Horticultural Sciences—Environmental Horticulture
Minor: Statistics
Dissertation: Application of in vitro Culture Techniques for the Conservation of Native Orchids from Ecuador
Dissertation Chair: M. E. Kane

Sourav Raha
Major: Physics
Dissertation: String Bits at Finite Temperature
Dissertation Chair: C. B. Thorn III

Dipti Rai
Major: Soil and Water Sciences
Dissertation: Soil Biogeochemical Properties and Microbial Community Composition under Prescribed Burning in Subtropical Rangelands of Florida
Dissertation Chair: S. Gerber
Dissertation Co-chair: M. L. Silveira

Farhad Ramezanghorbani
Major: Chemistry
Dissertation: Developing Machine Learning Tools and Models to Accelerate Applicability of Neural Network Potentials in Drug Discovery
Dissertation Chair: A. E. Roitberg
Dissertation Co-chair: C. M. Colina

Meera Rath
Major: Pharmaceutical Sciences
Dissertation: Exploring the Role of Microglia in Chronic Voluntary Binge Ethanol Consumption Mouse Model
Dissertation Chair: B. Liu

Homan Regmi
Major: Entomology and Nematology
Dissertation: Integrated Management of Root-Knot Nematode (Meloidogyne spp.) on Tomato Combining Host Resistance and Nematicides
Dissertation Chair: J. Desaeger

Tyler Joseph Remedes
Major: Nuclear Engineering Sciences
Dissertation: Analytic Modeling of a Deep Shielding Problem
Dissertation Chair: J. E. Baciak

Camilo Andres Riano Rios
Major: Mechanical Engineering
Dissertation: Propellant-Less Roto-Translational Control of Multiple Spacecraft in Low Earth Orbit Using Uncertain Environmental Forces and Torques
Dissertation Chair: R. Bevilacqua
Nicole Marie Robey  
Major:  Environmental Engineering Sciences  
Dissertation: Advances in Sustainable Management of Landfill Leachate  
Dissertation Chair: T. G. Townsend

Katy L. Robinson  
Major:  Mass Communication  
Dissertation: Says Who? A Qualitative Study of the Relationship between Employee Voice and Strategic Internal Communication  
Dissertation Chair: L. Men  
Dissertation Co-chair: S. K. Kioussis

Mary D. Roca  
Major:  English  
Dissertation Chair: A. M. Ulanowicz

Barukh Ben Rohde  
Major:  Electrical and Computer Engineering  
Dissertation: Motivations and Outcomes of an Undergraduate Teaching Assistantship Program  
Dissertation Chair: W. R. Eisenstadt  
Dissertation Co-chair: E. P. Douglas

Dominic J. Rucco  
Major:  Chemistry  
Dissertation: Protein-Polymer Chemistry: Applications of Controlled Radical Polymerizations with Biological Systems  
Dissertation Chair: B. S. Sumerlin

Bradley Russell-Webster  
Major:  Chemistry  
Dissertation: Ligand Effects on the Size, Structure and Reactivity of Ce/O Clusters and Molecular Nanoparticles  
Dissertation Chair: G. Christou

Kaitlyn M. Sarlo Davila  
Major:  Animal Sciences  
Dissertation: Genetic Dissection of Thermotolerance in Beef Cattle  
Dissertation Chair: R. Mateescu

Georg Scheutz  
Major:  Chemistry  
Dissertation: Dynamic Interactions in Design and Synthesis of Polymer Materials  
Dissertation Chair: B. S. Sumerlin

Christopher Jason Schletter  
Major:  Music Education  
Dissertation: An Examination of Music Performance Anxiety in High School Band Conductors  
Dissertation Chair: W. Bauer

Tasha Mari Schoppee  
Major:  Nursing Sciences  
Dissertation: Dignity Therapy Intervention Fidelity: A Cross-Sectional Descriptive Study with Elderly Cancer Outpatients  
Dissertation Chair: D. J. Wilkie

Gibson P. Scisco  
Major:  Materials Science and Engineering  
Dissertation: Templated Carbon Nanotube Electrodes for On-Chip Electrochemical Double Layer Capacitors  
Dissertation Chair: K. S. Jones  
Dissertation Co-chair: K. J. Ziegler
Weiqi Shen  
Major: Mechanical Engineering  
Dissertation: Modeling of Broadband Shock-Associated Noise in Supersonic Jets Using Large-Eddy Simulation and Decomposition Methods  
Dissertation Chair: S. A. Miller

Luming Shi  
Major: Coastal and Oceanographic Engineering  
Dissertation: Characterization of Meteotsunamis in the Northern Gulf of Mexico and the U.S. East Coast  
Dissertation Chair: M. Olabarrieta Lizaso

Benjamin Philip Shickel  
Major: Computer Science  
Dissertation: Sequential Machine Learning Methods and Applications for Patient Monitoring  
Dissertation Chair: P. Rashidi

Dong Jin Shin  
Major: Music  
Dissertation: Beyond Orientalism: Reconsidering East Asian Influence in Early Twentieth-Century European Music  
Dissertation Chair: S. dos Santos

Fei Shuang  
Major: Mechanical Engineering  
Dissertation: Atomistic Modeling for Capturing Failure Mechanisms in Nanocrystals and Electrode Materials for Li-ion Batteries  
Dissertation Chair: K. E. Aifantis

Tautvydas Shuipys  
Major: Genetics and Genomics  
Dissertation: Characterization of a Random Synthetic Peptide that Alters Discrete Red Light Responses  
Dissertation Chair: K. M. Folta

Jasdeep S. Sidhu  
Major: Physics  
Dissertation: A Study of Kondo Physics and Unconventional Superconductivity in Inhomogeneous Electronic Systems  
Dissertation Chair: J. K. Ingersent

Matthew Benjamin Silic  
Major: Mechanical Engineering  
Dissertation Chair: K. Mohseni

Kristen Skruber  
Major: Medical Sciences—Molecular Cell Biology  
Dissertation: Regulation of the Actin Cytoskeleton by Profilin-1 in Mammalian Cells  
Dissertation Chair: E. A. Vitriol

Thomas Bryan Smith  
Major: Criminology, Law, and Society  
Dissertation: A Theory of Biosocial Support  
Dissertation Chair: C. L. Gibson

Yangyang Song  
Major: Agronomy  
Dissertation: Assessing the Relationship of Seed Vigor to Field Physiological Performance and the Influence of Seed Maturity on Seed Vigor and Quality over Multiple Generations in Peanut (Arachis hypogaea L.)  
Dissertation Chair: D. L. Rowland  
Dissertation Co-chair: B. Tillman
Ray A. Spradlin  
Major: Health and Human Performance  
Dissertation: Necessity of Muscle IGF-1 for Recovery from Disuse and Adaptation to Endurance Exercise Training  
Dissertation Chair: E. R. Barton

Chad J. Spreadbury  
Major: Environmental Engineering Sciences  
Dissertation Chair: T. G. Townsend

Allen Coolidge Starke  
Major: Electrical and Computer Engineering  
Dissertation: Development of SDN Architectures for Management and Security of Wireless & Mobile Systems  
Dissertation Chair: J. Y. McNair

Jep Marie-Claire Stockmans  
Major: Religion  
Dissertation Chair: T. Østebø

Scott G. Strednak Jr.  
Major: Chemical Engineering  
Dissertation: Concentrated Fiber Suspensions in Confined Shearing Flows  
Dissertation Chair: J. E. Butler

Lauren R. Stutts  
Major: Plant Molecular and Cellular Biology  
Dissertation: Evaluating Candidate Anthracnose Resistance Genes in Sorghum  
Dissertation Chair: W. Vermerris

Michael D. Sunshine  
Major: Rehabilitation Science  
Dissertation: Electrical Activation and Analysis Paradigms for Restoration of Breathing  
Dissertation Chair: D. Fuller

Ratna G. Suthar  
Major: Agricultural and Biological Engineering  
Dissertation: Modeling Postharvest Losses in the Florida Tomato System  
Dissertation Chair: J. Judge

Kok Ben Toh  
Major: Interdisciplinary Ecology  
Dissertation: Predicting Malaria: Models and Their Applications  
Dissertation Chair: D. Ribeiro do Valle

Eduardo Sebastian Torres Villavicencio  
Major: Civil Engineering  
Dissertation: Experimental and Analytical Investigation of UHPC Tensile Strength Behavior  
Dissertation Chair: H. R. Hamilton III  
Dissertation Co-chair: G. R. Consolazio

Wako Godana Tuni  
Major: Electrical and Computer Engineering  
Dissertation: Design Methodology of Analog and RF Building Blocks Based on Precomputed Actual Device Technology Data  
Dissertation Chair: W. R. Eisenstadt  
Dissertation Co-chair: S. E. Thompson

James Ryan Tyger  
Major: Higher Education Administration  
Dissertation: Compassion Fatigue in Student Affairs Professionals  
Dissertation Chair: D. A. Kramer
Morgan Enrique Urdaneta
Major: Medical Sciences—Neuroscience
Dissertation: The Role of Cortical Depth on Bidirectional Brain-Machine Interfaces
Dissertation Chair: K. Otto

Valerie Christine Valerio Holguin
Major: Agricultural and Biological Engineering
Dissertation: Analyzing Livestock Value Chains in Sub-Saharan Africa with Data and Simulation Models: 3 Case Studies
Dissertation Chair: G. A. Kiker
Dissertation Co-chair: R. Muneepeerakul

Nicholas A. Vandervoort
Major: Materials Science and Engineering
Dissertation: Characterization and Improvement of the Mechanical Properties of Fine Diameter Fibers
Dissertation Chair: W. M. Sigmund

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

Kartika Venugopal
Major: Medical Sciences—Cancer Biology
Dissertation: Leukemia Associated Mutations in DNMT3A Mediate Sensitivity to Replication Stress Induced by Nucleoside Analogs
Dissertation Chair: O. Guryanova

Bo Wang
Major: Mechanical Engineering
Dissertation: Computational Models for Developing Design Criteria for Next Generation Electrodes for Li-ion and Na-ion Batteries
Dissertation Chair: K. E. Aifantis

Wei Wang
Major: Mechanical Engineering
Dissertation: A Numerical Study of Acoustics from Supersonic Particle-Laden Jets via Multi-Phase Acoustic Analogy
Dissertation Chair: S. A. Miller

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

Joseph Jessop Warren
Major: Design, Construction and Planning
Dissertation: Cooperative Preservation: Converting Multi-Site Historic Buildings into Cooperative Housing Corporations
Dissertation Chair: J. S. Matthews

Lauren Ashley Watkins
Major: Forest Resources and Conservation
Dissertation: Assessing Environmental Education Outcomes and Motivations in Community-School Partnerships
Dissertation Chair: M. C. Monroe

Alexander J. Weaver
Major: Physics
Dissertation: Hermite-Gauss TEM Based MEMs of Interferometric Signals in Gravitational Wave Detection, and Fundamental Restrictions of Paraxial Wave Descriptions
Dissertation Chair: G. Mueller
Melissa Mansfield Weinsz  
Major: Health and Human Performance  
Dissertation Chair: M. Sagas

Elizabeth Healy White Rose  
Major: Interdisciplinary Ecology  
Dissertation Chair: R. K. Boughton

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

Surafel F. Woldegiorgis  
Major: Nuclear Engineering Sciences  
Dissertation: Artificial Neural Network Assisted Neutron Tomography for Future Nuclear Treaty Verifications  
Dissertation Chair: J. E. Baciak

Xiuyuan Wu  
Major: Design, Construction and Planning  
Dissertation: Geometry and Architectural Representation in Premodern China  
Dissertation Chair: H. Zou

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

Yuhua Xu  
Major: Health and Human Performance  
Minor: Geography  
Dissertation: Planning for Spatial-Economic Resilience: Home-Sharing in Rural Florida  
Dissertation Chair: L. Pennington

Guoqian Yan  
Major: Geography  
Dissertation: Hurricanes Rainfall Spatial Pattern and Relationship with Environmental Moistures for the North Atlantic Basin  
Dissertation Chair: C. J. Matyas

Le Yang  
Major: Electrical and Computer Engineering  
Dissertation: Electromagnetic Interference Modeling, Prediction and Suppression Techniques of the Variable Frequency Motor Drive System  
Dissertation Chair: S. Wang

Lu Yang  
Major: Chemistry  
Dissertation: Enhancing the Bioactivity of Functional Nucleic Acid by Nanostructure Construction  
Dissertation Chair: Y. C. Cao

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: Y. Wang  
Dissertation Co-chair: P. D. Zwick
Sundara Ramakarthik Yarasuri  
Major: Civil Engineering  
Dissertation: Enhancement and Validation of a Residential Infrastructure Hurricane Wind Vulnerability Model  
Dissertation Chair: K. R. Gurley

Lauriane Sènadé Massan Yehouenou  
Major: Food and Resource Economics  
Dissertation: Experimental Economics for Conservation and Management of Natural Resources: From Watersheds in Florida, USA to Forests in Benin, West Africa  
Dissertation Chair: K. A. Grogan  
Dissertation Co-chair: S. N. Morgan

Cen Yue  
Major: Mass Communication  
Dissertation: The Paradox of Using Public Social Media for Work: The Influence of After-Hours Work Communication on Employee Outcomes  
Dissertation Chair: M. A. Ferguson

Tatyana Zamkovaya  
Major: Microbiology and Cell Science  
Dissertation: Unraveling the Ecological Relevance of Microbial Dark Matter  
Dissertation Chair: A. Conesa Cegarra

Tingting Zeng  
Major: Mechanical Engineering  
Minor: Electrical and Computer Engineering  
Dissertation: Autonomous Data-Driven Energy-Optimal Control of Building HVAC Systems  
Dissertation Chair: P. Barooah

Yi Zhang  
Major: Design, Construction and Planning  
Dissertation: A Justice-Oriented Approach to Identify Priorities for Transportation Adaptation in Response to Sea Level Rise Induced Flooding  
Dissertation Chair: Z. R. Peng

Yifan Zhang  
Major: Mechanical Engineering  
Dissertation: Tribological Studies on Shape Memory Photonic Crystals  
Dissertation Chair: C. Taylor

Yingjie Zhang  
Major: Electrical and Computer Engineering  
Dissertation: Investigation of Radiated Electromagnetic Interference Generated by Isolated Power Converters  
Dissertation Chair: S. Wang

Yu Zhang  
Major: Coastal and Oceanographic Engineering  
Dissertation: Development of Modeling Techniques Using Discrete Elements with Applications to Civil Engineering Systems  
Dissertation Chair: X. Yu  
Dissertation Co-chair: M. T. Davidson

Shaomin Zhao  
Major: Food Science  
Dissertation: Cranberry Juice Consumption Modified Metabolome and Gut Microbiome in Women in a Placebo-Controlled Double-Blinded Study  
Dissertation Chair: L. Gu

Zexi Zheng  
Major: Mechanical Engineering  
Dissertation: Probing Phonon Thermal Transport Properties from Molecular Dynamics Simulations by Direct Mode Propagation Tracking  
Dissertation Chair: Y. Chen
Jie Zhou
Major: *Nutritional Sciences*
Dissertation: *Associations between the Wnt Signaling Pathway and Iron-Deficient Milk of Hephaestin Knockout Mouse Dams Underlies Hair Loss in Pups*
Dissertation Chair: C. D. Vulpe
Dissertation Co-chair: J. F. Collins

Liang Zhou
Major: *Electrical and Computer Engineering*
Dissertation: *Electrothermal MEMS Scanning Mirrors and Lenses with Large Range and High Robustness for Two-Photon Microscopy*
Dissertation Chair: P. Feng

Doctor of Education

Dustin Bratton Adams
Major: *Educational Leadership*
Dissertation: *The Association between Perceptions of School Climate and Teachers’ Perceptions of Feedback Given within the Teacher Evaluation Process*
Dissertation Chair: L. B. Eldridge

Shayne Phillips Cade
Major: *Higher Education Administration*
Dissertation: *Persistence as a Manifestation of Motivation: A Phenomenological Exploration of Motivation for First-Generation College Students Who Completed Online Baccalaureate Degree Programs*
Dissertation Chair: K. D. Peck Parrott

Eric Thomas Coley
Major: *Higher Education Administration*
Dissertation: *Building Interprofessional Bridges: A Qualitative Study of What Interprofessional Education Means to Student Physical Therapists*
Dissertation Chair: C. Haynes

Max Diaz
Major: *Curriculum and Instruction*
Dissertation: *Employer-Based Needs Analysis of ICT-Related Competencies in ELT Job Advertisements in Hong Kong*
Dissertation Chair: S. Kumar

Kristina S. Greenaway
Major: *Educational Leadership*
Dissertation: *Principals of Change: Leading the Process of Successful Turnaround in Rural Florida*
Dissertation Chair: L. J. Searby

Robert Anthony Ovalle
Major: *Curriculum and Instruction*
Dissertation: *Improving Instructional Leadership through Practitioner Research: Adding Coaching to Teacher Evaluation*
Dissertation Chair: A. J. Adams

Leigh L. Powell
Major: *Curriculum and Instruction*
Dissertation: *Data-Driven Learning Design: An Exploration with Faculty on Information that Informs Their Practice*
Dissertation Chair: S. Kumar

Leanna Cristina Rodriguez
Major: *Educational Leadership*
Dissertation: *An Analysis of the First Amendment in Public Schools and an Examination of How It Will Be Applied to Electronic Communication off School Hours for Teachers and Students*
Dissertation Chair: L. B. Eldridge
DOCTOR OF BUSINESS ADMINISTRATION
Jason Altmire
Michael R. Anderson
William J. Carty Jr.
James Fatzinger
William C. Poellmitz
Roxanne Y. Valies
Warner Garrison Walker III

DOCTOR OF PLANT MEDICINE
Matthew Amos Borden
Eleanor F. Lopez

PROFESSIONAL DEGREES

THE FREDRIC G. LEVIN COLLEGE OF LAW

Dean Laura A. Rosenbury

DOCTOR OF JURIDICAL SCIENCES IN TAXATION
Dalton L. Dallazem

JURIS DOCTOR
Farhaan Kamal Anjum
Kyle S. Bugden
Austen R. Claiborne
Christina R. Cox
Jordyn L. Csanyi-Fuentes
Sara Olivia Dicks

Eric H. Foulds Jr.
Austin D. Hogan
Matthew Donald Lemons
Jacob Keith Markham
Jean-Garcia Marseille Jr.
Hunter M. Masin

Brian T. Nelson
Jared Daniel Pape
Jessica V. Rauckis
Zachary D. Ross
James Dylan White
Abraham Penn Wilson

MASTER OF LAWS IN INTERNATIONAL TAXATION
Claudia Mercedes Agudelo
Suyang Ma
Philomina Minsi

MASTER OF LAWS IN TAXATION
Farhaan Kamal Anjum
Ayuba Kwari
Jacob Keith Markham

Jean-Garcia Marseille Jr.
Juan Jose Oliveros Munoz

Jared Daniel Pape
Zachary D. Ross
James Dylan White

MASTER OF LAWS IN U.S. LAW
Mohammad Abdulrahman Alsumaih

THE COLLEGE OF NURSING

Dean Anna M. McDaniel

DOCTOR OF NURSING PRACTICE
Natalia Prieto
Abigail Lorraine Williams
What Makes a University Great?
Some interesting facts about the University of Florida

Educational Excellence

UF is consistently ranked among the nation’s top universities: No. 6 in U.S. News & World Report “Top Public Universities” (2020); No. 3 on the Forbes’ list of Best Value Public Universities (2019); No. 6 in the New York Times list of universities that do the most to help low-income students (2015); No. 2 in Kiplinger’s “Best Values in Public Colleges” (2017); No. 3 in the Milken Institute’s Ranking of Best Universities for Technology Transfer.

Faculty

- UF has more than 6,000 faculty members with distinguished records in teaching, research and service, including 36 Eminent Scholar chairs and 45 faculty elections to the National Academy of Sciences, Engineering, the National Academy of Medicine or the American Academy of Arts and Sciences.
- Awards include three Pulitzer Prizes, NASA’s top award for research, the Smithsonian Institution’s conservation award and a Fields medal.

Students

- Students admitted for the fall 2020 freshman class had an average 4.47 GPA, average SAT score of 1383, and an average ACT score of 31.
- The freshman retention rate of 97% is among the highest in the country.
- UF awards more professional degrees to African American, Hispanic and other minority students than any other public university in the Association of American Universities (2014-15).
- Sixty-eight percent of UF full-time freshmen graduate in four years (2012-13 cohort), and 90% of UF freshmen graduate within six years (2012-2013 cohort).
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 February 2021.
Caps and Gowns, An Explanation

The academic regalia worn by graduating students and faculty in this era 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