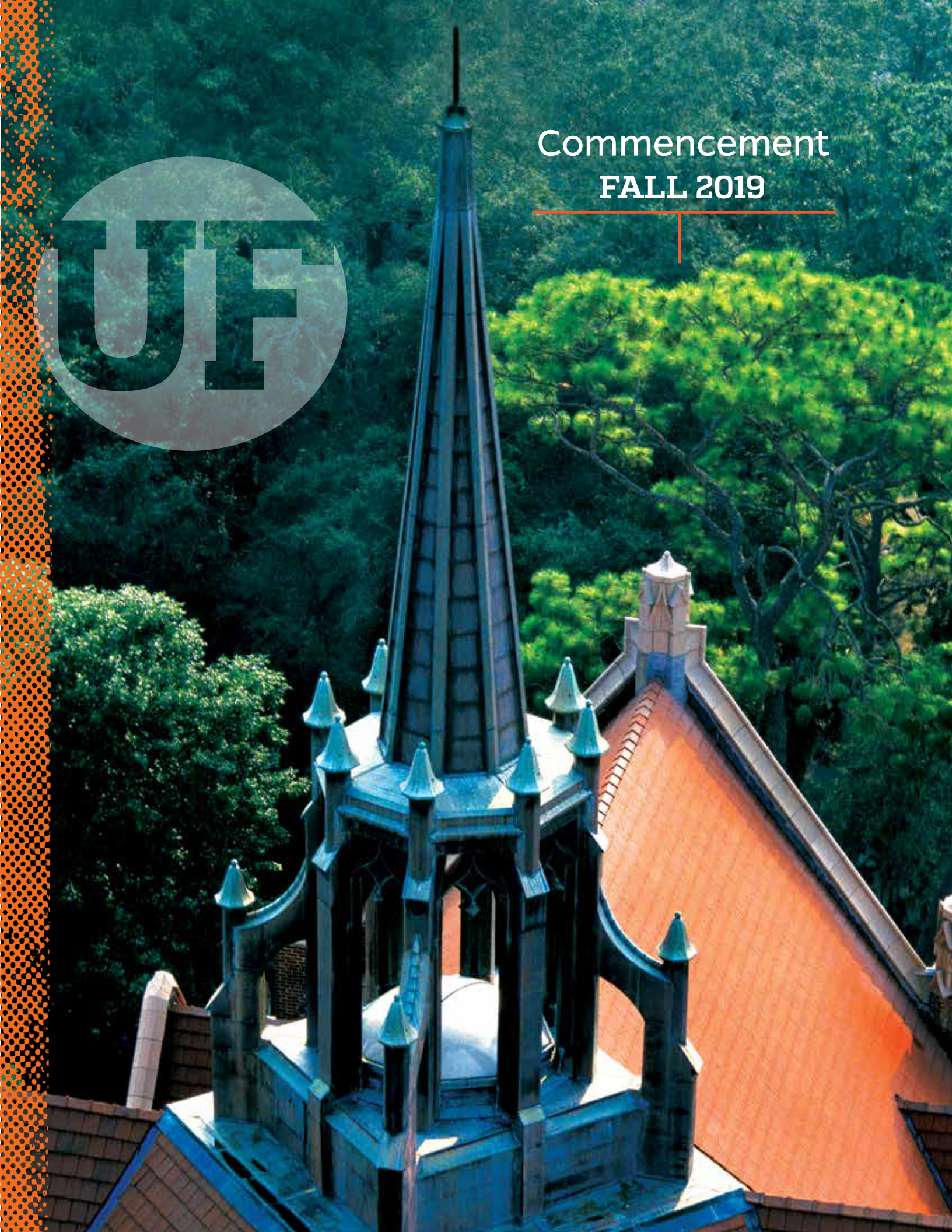


# Commencement

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

Commencement  
**FALL 2019**

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# Greetings from the President

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**O**n behalf of the University of Florida, our faculty and our entire university community, I would like to extend my deepest congratulations to you, the Doctoral Graduates of 2019.

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

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

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

Good luck, best wishes, and Go Gators!



W. Kent Fuchs



## University of Florida President

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### Dr. W. Kent Fuchs

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

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

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

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

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

Dr. Fuchs is married to Linda Moskeland Fuchs, an art historian. The Fuchs family has three sons, a daughter, and three grandchildren.

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



# University of Florida Leadership

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## State Board of Education

**Richard Corcoran**

*Commissioner of Education*

**Andy Tuck**

*Chair*

**Marva Johnson**

*Vice Chair*

**Ben Gibson**

**Tom Grady**

**Michael Olenick**

**Joe York**

## Florida Board of Governors

**Marshall M. Criser III**

*Chancellor*

**Richard Corcoran**

*Commissioner of Education*

**Ned C. Lautenbach**

*Chair*

**Sydney Kitson**

*Vice Chair*

**Tim Cerio**

**Shawn Felton**

**Patricia Frost**

**H. Wayne Huizenga, Jr.**

**Zenani D. Johnson**

**Darlene L. Jordan**

**Brian Lamb**

**Alan M. Levine**

**Charles H. Lydecker**

**Edward A. Morton**

**Steven M. Scott**

**Eric Silagy**

**Kent Stermon**

**Norman D. Tripp**

## University of Florida Board of Trustees

**Morteza “Mori” Hosseini**

*Chair*

**Thomas G. Kuntz**

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**Leonard H. Johnson**

**Michael C. Murphy**

**Daniel T. O’Keefe**

**Rahul Patel**

**Marsha D. Powers**

**Jason J. Rosenberg**

**Robert G. Stern**

**Ray G. Thomas**

**Anita G. Zucker**

## President and Vice Presidents of the University

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

*President*

**Joseph Glover, Ph.D.**

*Provost and Senior Vice President - Academic Affairs*

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

*Senior Vice President and Chief Operating Officer - Administration*

**David R. Nelson, M.D.**

*Senior Vice President - Health Affairs*

**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*

**Michael V. McKee, B.S.**

*Vice President and Chief Financial Officer - Finance*

**Thomas J. Mitchell, M.S.**

*Vice President - Advancement*

**David Norton, Ph.D.**

*Vice President - Research*

**Nancy Paton, M.S.**

*Vice President for Strategic Communications and Marketing*

**Winfred Phillips, D.Sc.**

*Interim Vice President - Student Affairs*

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

*Vice President - Business Affairs*

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## Deans of the University

**R. Elaine Turner, Ph.D.**

*College of Agricultural and Life Sciences*

**Onye P. Ozuzu, 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.**

*College of Pharmacy*

**Michael G. Perri, Ph.D.**

*College of Public Health and Health Professions*

**Thomas Vickroy, Ph.D.**

*Interim, College of Veterinary Medicine*

**Judith C. Russell, M.S.**

*University Libraries*

**Heather White, Ph.D.**

*Dean of Students*

# COMMENCEMENT AGENDA – FRIDAY, DECEMBER 13, 2:00 p.m.

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Presiding	W. Kent Fuchs <i>President</i>
Processional	Matt Morgan Gainesville Brass Quintet
National Anthem	Gainesville Brass Quintet
Welcome	W. Kent Fuchs
Introductions	Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i>
Commencement Address	Berta Esperanza Hernández-Truyol <i>Professor and Chair, Levin College of Law</i>
Presenting Candidates for Degrees	Joseph Glover
Conferring of Degrees	Marsha Powers <i>Member, UF Board of Trustees</i>
Closing Remarks	W. Kent Fuchs
Alma Mater	Matt Morgan Gainesville Brass Quintet
Recessional and Postlude	Gainesville Brass Quintet



# Commencement Speaker

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## **Berta Esperanza Hernández-Truyol**

*Professor and Chair, Levin College of Law*

Professor Berta Esperanza Hernández-Truyol is the Stephen O'Connell Chair in the Fredric G. Levin College of Law, a Research Foundation professor, and an internationally renowned human rights scholar. She utilizes an interdisciplinary, multidimensional, anti-subordination, international framework to promote human flourishing around the globe. Her field of specialization is international human rights with a focus on culture, language, race, sex, ethnicity, and sexuality.

She uses international law and human rights norms to develop, expand, and transform the way we conceptualize rights in order to promote human well-being and facilitate the maximization of each person's human capabilities. Following the human rights model, her scholarship posits that human rights are indivisible and interrelated. Such an approach explains how embracing the interdependence of seemingly disparate fields, such as trade and human rights, or civil rights and economics, promotes human flourishing.

Professor Hernández-Truyol's concept of international human rights is multidimensional, recognizing that no single aspect of a person's identity is isolatable. She critiques the monocular American approach to rights as incapable of fully capturing the human condition, arguing that looking only at one aspect of a person's identity, such as solely focusing on race or gender, rather than race and gender, lacks nuance and depth.



Her current research focuses on the tensions between religion and nondiscrimination, discrimination that is taking place primarily, but not exclusively, against LGBTQ+ persons. Using lessons learned from the international human rights approach as well as from foreign law, she is developing a policy approach to resolving those disputes.

Her aspiration is that her work raises awareness and inspires others actively to make the world a better place for all – where law and justice are compatible, human equality is a reality, all persons enjoy human dignity, and all human beings are valued. Through her work – both in teaching and in scholarship – she aims to bring consciousness to the need to protect the environment, educate the young, feed the hungry, shelter the homeless, center and empower those who are marginalized and vulnerable, and respect the rule of law. To this end, she has traveled around the world, including most of Latin America and Europe, with the aim of fostering human well-being.

# GRADUATE SCHOOL

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

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## DOCTOR OF PHILOSOPHY

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### **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.

### **Firas Mohammed Abed**

Major: *Veterinary Medical Sciences*

Dissertation: Genetics of Canine Pheochromocytoma

Dissertation Chair: M.J. Dark

### **Zunaira Afzal**

Major: *Plant Pathology*

Dissertation: Investigating Plant-Phytophthora Interactions Using Transcriptomics and Determining the Significance of Ca<sup>2+</sup> Signaling in Host Defense

Dissertation Chair: G. S. Ali

### **Nihan Ağaçlı 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

### **Yasemin Akdas**

Major: *Anthropology*

Dissertation: Perceptions and Experiences of Islamophobia among Turkish Muslim Women in Chicago, Illinois

Dissertation Chair: C. C. Gravlee IV

### **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

### **Haitham Nasser Alahmad**

Major: *Medical Sciences—Medical Physics*

Dissertation: Improving Dose Calculation Accuracy and Planning Efficiency of Volumetric Modulated Arc Therapy

Dissertation Chair: J. G. Li

### **Gideon Collins Alake**

Major: *Entomology and Nematology*

Dissertation: Characterization of Soil Communities Using Nematode and Microbiome Data Analytics

Dissertation Chair: P. DiGennaro

### **Majid Suliman Alhomidan**

Major: *Linguistics*

Dissertation: Loanword Adaptation in Najdi Arabic

Dissertation Chair: C. R. Wiltshire

### **Anmari Alvarez Aleman**

Major: *Interdisciplinary Ecology*

Dissertation: Population Genetics and the Conservation of West Indian Manatee (*Trichechus manatus*) in Cuba

Dissertation Chair: T. K. Frazer

Dissertation Co-chair: J. D. Austin

**Mohammed Hussain M. Alyami**

Major: *Civil Engineering*

Dissertation: Sulfate Attack on Concrete Potential for Accelerated Test Methods for Physical Salt Attack of Concrete

Dissertation Chair: K. A. Riding

Dissertation Co-chair: M. Tia

**Ícaro Alzuru Cortez**

Major: *Computer Engineering*

Dissertation: Human-Machine Extraction of Information from Biological Collections

Dissertation Chair: J. A. Fortes

**Mirna Patricia Amaya Amaya**

Major: *Public Health—One Health*

Dissertation: Health Systems and Urban Epidemic Response in Central America: Human Resources for Health in El Salvador

Dissertation Chair: S. Liang

**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

**Fopofoluwa Mofoluwaso Bademosi**

Major: *Design, Construction and Planning*

Dissertation: Robotics in Construction: An Evaluation of Construction Robotics Technologies in Industry and Education

Dissertation Chair: R. R. Issa

Dissertation Co-chair: M. Gheisari

**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

**Hanxi Bao**

Major: *Agricultural and Biological Engineering*

Dissertation: Catalytic Depolymerization of Lignin into High Value Aromatics and Its Process Optimization

Dissertation Chair: Z. Tong

Dissertation Co-chair: G. Lan

**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

**Debra Marie-Hope Barry**

Major: *Agricultural Education and Communication*

Dissertation: Evaluation of Student Teacher Supervision and Mentoring through the Pact Model for Assisting and Supporting Agriscience Cooperating Teachers in Florida

Dissertation Chair: B. E. Myers

**Jolie Denise Barter**

Major: *Medical Sciences—Neuroscience*

Dissertation: Systemic Inflammation and Brain Aging: Biomarkers and Mechanisms

Dissertation Chair: T. C. Foster

**Anje G. Bauck**

Major: *Veterinary Medical Sciences*

Dissertation: Mechanisms of Bicarbonate Secretion in the Equine Colon in Vitro

Dissertation Chair: D. E. Freeman



**Claudia Andrea Baudoin Farah**

Major: *Interdisciplinary Ecology*

Dissertation: “*Volver a hablar con la gente del agua*”: Meanders of Indigenous Autonomy in the Isiboro Sécure Indigenous Territory and National Park (TIPNIS), Bolivia

Dissertation Chair: S. G. Perz

**Danielle Renee Beasley**

Major: *Nursing Sciences*

Dissertation: Testing Medical and Nurse Practitioner Students' Pre and Post Intervention Knowledge, Self-Efficacy and Motivation for Antepartum Patient Teaching of Maternal Depression: Self-Identification and Screening

Dissertation Chair: V. M. Johnson-Mallard

**Zachary I. Bell**

Major: *Mechanical Engineering*

Dissertation: Target Tracking in Unknown Environments Using a Monocular Camera Subject to Intermittent Sensing

Dissertation Chair: W. E. Dixon

**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

**Mirosław Binder**

Major: *Mathematics*

Dissertation: Model of a Co-Circulation of Two Vector Borne Diseases (Zika/Dengue)

Dissertation Chair: S. S. Pilyugin

**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

**Erin Collings Bohaboy**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Recreational Post-Release Mortality and Harvest Slots: Implications for Stock Status and Management of Gulf of Mexico Red Snapper

Dissertation Chair: W. F. Patterson III

Dissertation Co-chair: R. Ahrens

**Gregory H. Bontrager**

Major: *Linguistics*

Dissertation: Effect of Orthographic Depth on Reading in English and Spanish

Dissertation Chair: C. R. Wiltshire

**Caleb James Bostwick**

Major: *Medical Sciences—Neuroscience*

Dissertation: Molecular Profiling of Cellular Identity and Plasticity in the Nervous System of *Aplysia californica*

Dissertation Chair: L. L. Moroz

**Julie Kathleen Bray**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Models and Mechanisms of Exocrine Pancreas Plasticity during Injury: Implications for Cancer Development

Dissertation Chair: T. D. Schmittgen

**Luke H. Breland**

Major: *Linguistics*

Dissertation: Discourse Analysis of Naturally-Occurring Speech from Individuals with High-Functioning Autism While Playing Tabletop Roleplaying Games

Dissertation Chair: H. Blondeau

Dissertation Co-chair: A. K. Wehmeyer

**David Lee Brown**

Major: *Materials Science and Engineering*

Dissertation: Phase Properties of Semiconductor and Transition Metal Materials from Experimental and Computational Principles

Dissertation Chair: K. S. Jones

Dissertation Co-chair: S. R. Phillpot

**Hannah Oviatt Brown**

Major: *Interdisciplinary Ecology*

Dissertation: Collaborating for Oyster Sustainability: A Mixed-Methods Analysis of Stakeholder Communication and Preference for Future Management Outcomes on the Gulf Coast

Dissertation Chair: S. Jacobson

**Amanda Nicole Buerger**

Major: *Public Health—Environmental Health*

Dissertation: Peroxisome Proliferator Activated Receptor Activity and Microbial Dysbiosis: Convergence of Dual Mechanisms That Contribute to Obesity following Phthalate Exposure in *Danio rerio*

Dissertation Chair: J. H. Bisesi Jr.

**Charles A. Burchfield**

Major: *Civil Engineering*

Dissertation: Multiple Fiber Effects on Pullout Performance of Ultra-High Performance Fiber Reinforced Concrete

Dissertation Chair: T. Krauthammer

**Kaitlyn R. Calabro**

Major: *Medical Sciences—Genetics*

Dissertation: Exploring *Myo7A* Function in Novel Mouse Models and Improving AAV-Dual Vector Gene Therapy for Usher Syndrome Type 1B

Dissertation Chair: S. E. Boye

**Raiza Janneth Castillo Argaez**

Major: *Horticultural Sciences*

Dissertation: Comparative Physiology and Xylem Anatomy of Trees in the Lauraceae with Differential Susceptibility to Laurel Wilt

Dissertation Chair: B. A. Schaffer

**Nicholas David Cavallaro**

Major: *Agricultural and Biological Engineering*

Dissertation: Laser Carbonized Biosensors for Point of Use Detection of *Listeria monocytogenes*

Dissertation Chair: E. McLamore

**Casey Alexander Chamberlain**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Metabolomic Characterization of the Intestinal Bacterial Oxalobiome

Dissertation Chair: T. J. Garrett

**Chih-Chiang Michael Chang**

Major: *Mechanical Engineering*

Dissertation: Robotic Soft Matter 3D Printing System for Patient-Specific Neurosurgical Phantoms

Dissertation Chair: S. A. Banks

**Sarah Ynez Chavez**

Major: *Medical Sciences—Health Outcomes and Policy*

Dissertation: Evaluating the Quality of Type 2 Diabetes Mobile Apps: The Development, Testing, and Dissemination of an Evidence-Based Scoring Instrument for Mobile Health Applications

Dissertation Chair: Y. Guo

Dissertation Co-chair: F. P. Modave

**Amani Cheniour**

Major: *Materials Science and Engineering*

Dissertation: Study of  $U_3Si_2$  Fuel Microstructure Behavior under LWR Conditions Using the Phase Field Method

Dissertation Chair: M. Tonks

**Andreina Chiu Lam**

Major: *Chemical Engineering*

Dissertation: Evaluation of Magnetic Nanoparticles Response in an Alternating Magnetic Field in Different Biomedical Applications

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

**Robert Conn IV**

Major: *Classical Studies*

Dissertation: Vernae in the Roman Republic: From an Undesired Byproduct to an Intentionally Cultivated Slave

Dissertation Chair: V. L. Yates

**Jonathan Ray Cowart**

Major: *Veterinary Medical Sciences*

Dissertation: Gonadal Function, Semen Characterization, and Morphometry of the Spermatozoa in the Florida Manatee (*Trichechus manatus latirostris*)

Dissertation Chair: P. S. Cooke

Dissertation Co-chair: I. V. Larkin

**Shari Marie Crandall**

Major: *Higher Education Administration*

Dissertation: Life Taught Me to Be Independent: Former Foster Youth's Perception of Adapting to College

Dissertation Chair: C. Haynes

**Sinead M. Crotty**

Major: *Environmental Engineering Sciences*

Dissertation: Drivers and Consequences of Ribbed Mussel Spatial Patterning in Southeastern U.S. Salt Marshes

Dissertation Chair: C. Angelini

**Rajeeb L. Das**

Major: *Research and Evaluation Methodology*

Dissertation: Methodological Considerations Comparing Three Variations of Data Mining Classification Trees to Logistic Regression to Predict Higher Education Enrollment Yield

Dissertation Chair: D. Miller

**Adithya M. Devraj**

Major: *Electrical and Computer Engineering*

Minor: *Mathematics*

Dissertation: Reinforcement Learning Design with Optimal Learning Rate

Dissertation Chair: S. P. Meyn

**Surya Chandan Dhulipala**

Major: *Electrical and Computer Engineering*

Dissertation: Towards a Smarter Grid: Improvements in Control and Monitoring of Power Grid with Increased Renewable Energy Penetration

Dissertation Chair: A. S. Bretas

Dissertation Co-chair: S. P. Meyn

**Glenda E. Diaz Acosta**

Major: *Civil Engineering*

Dissertation: Evaluation of End Region Crack Control Using Fiber Reinforced Concrete

Dissertation Chair: H. R. Hamilton III

**Jacqueline A. Donovan**

Major: *Higher Education Administration*

Dissertation: *Essays on the Community College Baccalaureate: A Multi-Level Policy Analysis*

Dissertation Chair: D. A. Kramer

**Brendan Michael Doyle**

Major: *Rehabilitation Science*

Dissertation: *Delivering Genes to the Hypoglossal Motor System*

Dissertation Chair: D. Fuller

**Ashley E. DuVal**

Major: *Horticultural Sciences*

Dissertation: *Sources of Tree to Tree Variability and Their Impact on Breeding and Production of *Theobroma cacao* L.*

Dissertation Chair: J. X. Chaparro

**Zachary Emberts**

Major: *Zoology*

Dissertation: *The Evolutionary Ecology of Autotomy in Leaf-Footed Bugs (Insecta: Hemiptera: Coreidae)*

Dissertation Chair: C. M. St Mary

Dissertation Co-chair: C. W. Miller

**Anthony Joseph Erdman**

Major: *Electrical and Computer Engineering*

Dissertation: *Nonlinear FDTD Simulation of Ionospheric Modification*

Dissertation Chair: R. C. Moore

**Judith Fabrega Carrizosa**

Major: *Curriculum and Instruction*

Dissertation: *Building a Community: Teacher Learning, New Perceptions and Identities when Implementing Mathematics Pedagogy for Social Justice*

Dissertation Chair: C. L. Busey

**Ahmed Hassan Fahmy**

Major: *Electrical and Computer Engineering*

Dissertation: *Mixed-Signal IC Design for Interfacing with Peripheral Nervous System*

Dissertation Chair: N. Maghari

**Cacey Bowen Farnsworth**

Major: *History*

Dissertation: *Atlantic Lisbon: From Restoration to Baroque Splendor, 1668-1750*

Dissertation Chair: I. L. Altman

**Gabriel A. Fernandez Bueno**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: *Mitochondrial Dysfunction as a Component of Pathogenesis in Non-Alcoholic Fatty Liver and Type 2 Diabetes Mellitus*

Dissertation Chair: C. E. Mathews

**Joseph Anthony Flores-Toro**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: *Targeting CCR2-Expressing Myeloid Cells to Overcome Immune Checkpoint Inhibitor Resistance in Glioma*

Dissertation Chair: J. K. Harrison

**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.

**Elyssa J. Gage**

Major: *History*

Dissertation: 'A Softer and More Durable Glory': Narratives of Justice and Colonialism in the French Atlantic, 1801-1830

Dissertation Chair: S. T. Kroen

**Yuan Gao**

Major: *Nuclear Engineering Sciences*

Dissertation: Evaluation of Spent Fuel Assembly Integrity in Dry Cask Based on Gamma Ray Radiation

Dissertation Chair: J. E. Baciak

**Heran Getachew**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: The Intracellular Survival of *Porphyromonas gingivalis* in Human Coronary Artery Endothelial and Smooth Muscle Cells

Dissertation Chair: A. Progulsk

**Mayur Ghatge**

Major: *Electrical and Computer Engineering*

Dissertation: Linear and Non-Linear Micro-Acoustic Waveguides for Frequency Control Applications

Dissertation Chair: R. Tabrizian

**Delaram Ghoreishi**

Major: *Physics*

Dissertation: Implementation of Methods to Accurately Predict Transition Pathways and the Underlying Potential Energy Surface of Biomolecular Systems

Dissertation Chair: A. E. Roitberg

**Christopher David Gianelli**

Major: *Electrical and Computer Engineering*

Dissertation: One-Bit Compressive Sampling with Time-Varying Thresholds: The Cramér-Rao Bound, Maximum Likelihood, and Sparse Estimation

Dissertation Chair: J. Li

**Shabnam Goli**

Major: *Music*

Dissertation: Music, Migration, and Politics of Belonging: Persian Popular Music Scenes in California

Dissertation Chair: L. N. Crook

**Jazmin Gonzales Tovar**

Major: *Forest Resources and Conservation*

Dissertation: Context, Power and Equity in Land Use (Planning) Multi-Stakeholder Forums: A Comparative Analysis of Acre and Mato Grosso, Brazil

Dissertation Chair: G. Barnes

Dissertation Co-chair: C. M. Tucker

**Marshall S. Goodwin**

Major: *Medical Sciences—Neuroscience*

Dissertation: rAAV-Mediated Delivery of Recombinant Antibodies as a Potential Therapeutic Strategy for Tauopathies

Dissertation Chair: T. E. Golde

Dissertation Co-chair: Y. Levites

**Mary Victoria Gorham**

Major: *Political Science*

Dissertation: Recounting the Nation: State, Society, and Nation-Building in Tanzania, Kenya, Singapore, and Malaysia

Dissertation Chair: B. B. Smith

**Marly Gotti**

Major: *Mathematics*

Dissertation: Atomicity and Factorization of Puiseux Monoids

Dissertation Chair: P. K. Sin

**Jandy A. Gu**

Major: *Anthropology*

Dissertation: Vanguard or Vandal: Symbolic Boundaries and Subjectivities of Grafite and Pixação in São Paulo, Brazil

Dissertation Chair: I. Jusionyte

Dissertation Co-chair: M. J. Heckenberger

**Jie Gu**

Major: *Physics*

Dissertation: Functionalizing Molecule-Based Quantum Magnets

Dissertation Chair: X. Zhang

**Pancham Lal Gupta**

Major: *Chemistry*

Dissertation: Study of pH-Dependent Functions of *E. coli* Glycinamide Ribonucleotide Transformylase

Dissertation Chair: A. E. Roitberg

**Mediha Gurel**

Major: *Biomedical Engineering*

Dissertation: Vascular Tissue Engineering: Designing Innovative Approaches Combining Stem Cell and Perfusion-Based Technologies

Dissertation Chair: P. S. McFetridge

**Clarissa Michelle Harris**

Major: *Animal Sciences*

Minor: *Food Science and Human Nutrition*

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

**Samuel Martin Hart**

Major: *Mechanical Engineering*

Dissertation: Friction-Induced Apoptosis Characterization

Dissertation Chair: W. G. Sawyer

**Cedric Darnell Harville II**

Major: *Health and Human Performance*

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

Dissertation Chair: D. C. James

**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

**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

**Daniel A. Hillsberry**

Major: *Aerospace Engineering*

Dissertation: Steering Mirror Hardware Development for the LISA Backlink

Dissertation Chair: J. Conklin

### **Young-Rock Hong**

Major: *Health Services Research*

Dissertation: Effects of Patient-Provider Communication with Teach-Back on Quality of Care and Health Outcomes among Individuals with Diabetes

Dissertation Chair: A. G. Mainous III

### **Winnie Wai-Yin Hui**

Major: *Microbiology and Cell Science*

Dissertation: A Promising Potential Cell-Free Vaccine: Exosomes Role in Immune Regulation against *Salmonella* Typhimurium

Dissertation Chair: M. J. Edelman

### **Sara Townsend Humes**

Major: *Public Health*

Dissertation: Investigating the Exposome: A Focus on Toxicants, Viruses, and Novel Molecular Mechanisms

Dissertation Chair: T. L. Sabo-Attwood

### **Jacy L. Hyde**

Major: *Forest Resources and Conservation*

Dissertation: Environmental Impacts of Transmission Lines and Open Data Standards for Infrastructure Projects in the Brazilian Amazon

Dissertation Chair: D. Ribeiro do Valle

Dissertation Co-chair: S. A. Bohlman

### **Muhammad Imran**

Major: *Physics*

Dissertation: Theory of Magnetotransport in the Dirac and Weyl Semimetals

Dissertation Chair: S. P. Hershfield

### **Jessica Marie Jacob**

Major: *Veterinary Medical Sciences*

Dissertation: Developing an Innovative and Safe Protective Immunity Enhanced *Salmonella* Vaccine against *Brucella melitensis*

Dissertation Chair: R. Curtiss III

### **Charles Fredrick Jekel Jr.**

Major: *Mechanical Engineering*

Dissertation: Influence of Objective Functions on the Identification of Material Model Parameters from Experimental Data

Dissertation Chair: R. T. Haftka

Dissertation Co-chair: Y. Chen

### **Shiyao Jiang**

Major: *Entomology and Nematology*

Dissertation: Mosquito-Effective Insecticides and Repellents: Potassium Channel Blocker-Synergized Pyrethroid Mosquitocidal Effects, and a High-throughput Screening Method for Spatial Activities

Dissertation Chair: J. R. Bloomquist

### **Tian Jiang**

Major: *Chemistry*

Dissertation: Nanoparticle-Based Machinery for Specific mRNA Degradation and Its Potential Therapeutic Applications

Dissertation Chair: Y. C. Cao

### **Haoming Jin**

Major: *Physics*

Minor: *Materials Science and Engineering*

Dissertation: Electrical Properties of Heterostructures Including Topological Materials

Dissertation Chair: A. F. Hebard

**Adam Matthew Jordan**

Major: *Curriculum and Instruction*

Dissertation: Empowerment, Equality, and Efficiency: Voices of Students with Dyslexia

Dissertation Chair: K. M. Dawson

Dissertation Co-chair: E. D. McCray

**Serene Joseph**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Effects of Maternal Hypercortisolemia on Fetal and Neonatal Metabolism in Heart and Diaphragm

Dissertation Chair: M. Keller Wood

**Braulio Juarez Araiza**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Estuarine Flows Driven by the Interaction of Winds and Density Gradients

Dissertation Chair: A. Valle-Levinson

**Colin Patrick Kearney**

Major: *Mass Communication*

Dissertation: Regionalism in Prime-Time: An Examination of the American South on Television

Dissertation Chair: R. Rodgers

**Casey Jean Keuthan**

Major: *Medical Sciences—Genetics*

Dissertation: Investigating Key Regulatory Networks Mediating Photoreceptor Protection and Progression of Retinal Degeneration

Dissertation Chair: J. Ash

**Rafia Akhtar Khan**

Major: *Entomology and Nematology*

Dissertation: Sustainable Management Approaches for Controlling Thrips (Thysanoptera: Thripidae) and Their Transmitted Tospoviruses in Tomatoes in South Florida

Dissertation Chair: D. R. Seal

Dissertation Co-chair: S. Zhang

**Kshitij Khatri**

Major: *Horticultural Sciences*

Minor: *Agricultural Education and Communication*

Dissertation: Use of Metam Potassium in Florida Plasticulture Production

Dissertation Chair: N. S. Boyd

**Dimitri N. Koutzoumis**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: The Role of Gut Microbiota and Bacterial Metabolites on Dopamine Neuron Vulnerability

Dissertation Chair: G. E. Torres

Dissertation Co-chair: N. M. Urs

**Matthew B. Koval**

Major: *History*

Dissertation: Hopes, Fears, and Possibilities: Children and Childhood in Medieval Poland, 1050-1300 in a European Context

Dissertation Chair: F. Curta

**Pavlo Ivan Kravchenko**

Major: *Chemical Engineering*

Dissertation: Exploring the Fundamentals of Catalysis: How Does Confinement, Solvation, and Surface Crowding Influence Reactions?

Dissertation Chair: D. Hibbitts



**Christopher P. Krieg**

Major: *Botany*

Dissertation: Polyploidy and Ecological Adaptation in an Allotetraploid Polystichum Complex (Dryopteridaceae)

Dissertation Chair: E. Sessa

**Abhinav Kurumaddali**

Major: *Pharmaceutical Sciences—Pharmacy*

Minor: *Statistics*

Dissertation: Pharmacometric Evaluation of in vitro and in vivo Methods for Bioequivalence Assessment of Orally Inhaled Drug Products

Dissertation Chair: G. Hochhaus

**Shannon R. Lalor**

Major: *History*

Dissertation: Women, Power, and the Expansion of Empire: The Bobadilla Women of Early Modern Spain, 1440-1550

Dissertation Chair: I. L. Altman

**Christina Joyce Lamb**

Major: *Higher Education Administration*

Dissertation: Three Essays on Postsecondary Financial Aid

Dissertation Chair: D. A. Kramer

**Xiaomeng Lan**

Major: *Mass Communication*

Dissertation: Gamification of Public Relations: Effects of the Mechanisms of Intrinsic Motivation and Engagement

Dissertation Chair: S. K. Kiousis

**Alexis Reanna Lanza**

Major: *Zoology*

Dissertation: Insights into the Role of TGF-Beta Superfamily Signaling in Annelid Dorsal-Ventral Axis Formation

Dissertation Chair: E. C. Seaver

**Joseph J. Lebowitz**

Major: *Medical Sciences—Neuroscience*

Dissertation: Kv2.1 Clusters as Discrete Regulatory Microdomains of Dopamine Transporter Trafficking, Mobility, and Activity

Dissertation Chair: H. Khoshbouei

**Christopher Jee Han Lee**

Major: *Chemical Engineering*

Dissertation: Redox-Mediated Structural Dynamics and Supported Metal Oxide Catalysis of Ultrathin Terbia Thin Films on Pt(111)

Dissertation Chair: J. F. Weaver

**Shinyoung Lee**

Major: *Animal Sciences*

Dissertation: Occurrence and Transmission of Antibiotic Resistance in Natural Environments

Dissertation Chair: K. C. Jeong

**Haochen Li**

Major: *Environmental Engineering Sciences*

Dissertation: Multi-Scale Sedimentation-Filtration Modeling

Dissertation Chair: J. J. Sansalone

**Long Li**

Major: *Chemistry*

Dissertation: Constructing Smart Molecule-Recognition Tools and a High-Throughput Post-SELEX Optimization Method at the Interface of the Cell Membrane

Dissertation Chair: R. A. Butcher

**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

**Xiaowei Li**

Major: *Chemistry*

Dissertation: Optimizing Aptamer-Based DNA Nanostructures for Enhanced Theranostics of Cancer and Neurodegenerative Disease

Dissertation Chair: S. D. Bruner

**Yiming Li**

Major: *Electrical and Computer Engineering*

Dissertation: Investigation on the Switching Transformer and the EMI Filter Optimization for EMI Noise and Loss Reduction in AC/DC Power Converters

Dissertation Chair: S. Wang

**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

**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 I. 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

**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

**Yunxi Liu**

Major: *Physics*

Dissertation: Ultrasonic Spray Deposition of Single Wall Carbon Nanotubes for Vertical Organic Light-Emitting Transistors

Dissertation Chair: A. G. Rinzler

**Steven Anthony LoCicero**

Major: *Chemistry*

Dissertation: Effects of Increased Particle Surface in Coordination Polymer Systems with Phase Transitions

Dissertation Chair: D. R. Talham

**Hang Lu**

Major: *Chemistry*

Dissertation: Mechanism-Directed Precursor Design and Synthesis for Focused Electron Beam Induced Deposition of Platinum Nanostructures

Dissertation Chair: L. A. McElwee-White

**Edda Lungu**

Major: *Nutritional Sciences*

Dissertation: The Feasibility and Acceptability of a Soy-Fiber-Maize Blend Complementary Food

Dissertation Chair: W. J. Dahl

**Brian S. MacTavish**

Major: *Chemistry*

Dissertation: Biochemical and Structural Characterization of Proteins Involved in Cancer for the Development of Novel Treatments

Dissertation Chair: S. D. Bruner

**Jagadeesh Nagendra Manda**

Major: *Chemistry*

Dissertation: Synthesis and Biological Evaluation of Spirastrellolide A Analogues and Enantioselective Synthesis of Chiral Biaryls

Dissertation Chair: A. Aponick

**Kathryn Louise McCurley**

Major: *Soil and Water Sciences*

Dissertation: Evapotranspiration Patterns and Drivers in Global Climate Zones

Dissertation Chair: J. W. Jawitz

**Roberta Mendonça De Carvalho**

Major: *Geography*

Dissertation: Amazons within the Amazon: Urbanization under a Multiscale Assessment

Dissertation Chair: T. J. Fik

**Kannan Menon**

Major: *Biomedical Engineering*

Dissertation: Design of an Efficient Framework to Improve the Outcomes and Usability of a Clinical Diffusion MRI Protocol

Dissertation Chair: J. R. Forder

Dissertation Co-chair: S. J. Blackband

**Andrew L. Miller**

Major: *Physics*

Dissertation: Using Machine Learning and the Hough Transform to Search for Gravitational Waves Due to R-Mode Emission by Isolated Neutron Stars

Dissertation Chair: B. F. Whiting

**Nikhil Kailashnath Mishra**

Major: *Civil Engineering*

Dissertation: Effects of the Grain-to-Grain Contact Phenomenon on the Bulk Response of Granular Material

Dissertation Chair: J. H. Chung

**Tiffany Lynn Mohr**

Major: *Mass Communication*

Dissertation: Exploring Relationships of Interest Group Strategic Communication and Agenda Building

Dissertation Chair: S. K. Kiouisis

**Marissa Selena Molinar**

Major: *Anthropology*

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

Dissertation Chair: K. E. Sassaman Jr.

**Mahmoud Omar Mona**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Identification of Inductive Signals for Mesenchymal Stem Cell Transdifferentiation into Salivary Progenitors

Dissertation Chair: S. Cha

**Jenna Marjorie Moore**

Major: *Zoology*

Dissertation: Phylogeny, Systematics, and Evolution of Functional Morphology in Chaetopteridae (Annelida)

Dissertation Chair: G. Paulay

**Emily A. Moravec**

Major: *Astronomy*

Dissertation: Galaxy Evolution in Massive Galaxy Clusters at  $z \sim 1$

Dissertation Chair: A. H. Gonzalez

**Benjamin James Morris**

Major: *Agricultural Education and Communication*

Dissertation: An Investigation into the Knowledge and Practice of Adaptive Leadership among the Senior Florida Extension Leaders

Dissertation Chair: C. E. Suarez

**Sunshine D. Moss**

Major: *Special Education*

Minor: *Research and Evaluation Methodology*

Dissertation: Teacher Knowledge of Dyslexia and Special Education Policy

Dissertation Chair: H. B. Lane

**Aaron James Mullins**

Major: *Entomology and Nematology*

Dissertation: Nitrogen Procurement and Provisioning in the Termites

Dissertation Chair: N. Su

**Marcela Murillo**

Major: *Romance Languages—Spanish*

Dissertation: Femininity and Performativity of the Chola: Between Tradition and Globalization

Dissertation Chair: M. E. Sorbille

**Akilah Briana Murray**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: "A Sweet Relief": A Structure-Guided Approach to Selective Inhibitor Design towards Carbonic Anhydrase IX for Breast Cancer Treatment

Dissertation Chair: R. McKenna

**Mitch R. Murray**

Major: *English*

Dissertation: The Art of Genre: The *Künstlerroman* in Contemporary American Fiction

Dissertation Chair: P. E. Wegner

**M. 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 European Union and in the United States

Dissertation Chair: S. K. Kioussis

**Cassandra Rene' Newkirk**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Experimental System for the Ecological and Cellular Study of the Cnidarian-Dinoflagellate Symbiosis

Dissertation Chair: T. K. Frazer

Dissertation Co-chair: M. Q. Martindale

**Rachel L. Nosacka**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Molecular Mechanisms of Skeletal Muscle Atrophy in Cancer Cachexia

Dissertation Chair: A. R. Judge

**Seth Timothy Nydam**

Major: *Aerospace Engineering*

Dissertation: Design, Testing, and Operations of a Low Resource Optical Precision Timing Instrument for Ground-To-Space Time Synchronization

Dissertation Chair: J. Conklin

**Steven V. Nystrom**

Major: *Chemical Engineering*

Dissertation: Catalysis: Elucidating Kinetics and Trends Using DFT and Experiments

Dissertation Chair: D. Hibbitts

**Kathryn Lorraine Olsen**

Major: *Chemistry*

Dissertation: Catalytic Enantioselective Synthesis of Minimally Differentiated Chiral Amines

Dissertation Chair: A. Aponick

**Sanny Rawhi Omar**

Major: *Aerospace Engineering*

Dissertation: A Drag Device and Control Algorithm for Spacecraft Attitude Stabilization and De-Orbit Point Targeting Using Aerodynamic Drag

Dissertation Chair: R. Bevilacqua

**Aschkan Omidvar**

Major: *Civil Engineering*

Minor: *Statistics*

Dissertation: Optimizing Freeway Merge Operations under Conventional and Automated Vehicle Traffic

Dissertation Chair: A. Elefteriadou

**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

**Nathan Cesar Ou**

Major: *Chemistry*

Dissertation: Design, Synthesis, and Evaluation of Single-Source Precursors for Chemical Vapor Deposition

Dissertation Chair: L. A. McElwee-White

**Frederick Ouellet**

Major: *Aerospace Engineering*

Dissertation: Modeling of Real Gas and Multiphase Effects for Use in the Simulation and Analysis of Explosively Driven Particle-Laden Flows

Dissertation Chair: S. Balachandar

**Mukesh Pappoppula**

Major: *Chemistry*

Dissertation: Enantioselective Dearomative Alkynylation of Nitrogen Heterocycles

Dissertation Chair: A. Aponick

**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

**Joshua T. Paul**

Major: *Materials Science and Engineering*

Dissertation: Utilization of High-Throughput Techniques for Materials Discovery and Characterization

Dissertation Chair: R. Hennig

**Simona Picardi**

Major: *Wildlife Ecology and Conservation*

Dissertation: Movement Ecology of Wood Storks in the Southeastern U.S.

Dissertation Chair: M. R. Basille

Dissertation Co-chair: P. C. Frederick

**Carlos Raul Pitta Arcos**

Major: *Food and Resource Economics*

Dissertation: Essays on the Economic Impacts of Huanglongbing on Florida's Citrus Industry

Dissertation Chair: R. N. Weldon

**Daniel V. Poling**

Major: *Special Education*

Minor: *Research and Evaluation Methodology*

Dissertation: Perceptions of Students with Emotional and Behavioral Disabilities about Direct Verbal Aggression in School Settings

Dissertation Chair: S. W. Smith

**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

**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

**Lourdes Rebeca Ptschelinzew**

Major: *Design, Construction and Planning*

Dissertation: Quality Performance Evaluation of Lump Sum Contracting for Florida Highway Construction Projects

Dissertation Chair: R. E. Minchin Jr.

**Piyawong Punjatewakupt**

Major: *Food and Resource Economics*

Dissertation: The Emergence of the Thai Food Manufacturing: Trade and Productivity

Dissertation Chair: S. E. Stefanou

**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

**Anand Radhakrishnan**

Major: *Electrical and Computer Engineering*

Dissertation: Application of Learning Algorithms to Nonlinear Filtering and Markov Chain Monte Carlo Methods

Dissertation Chair: S. P. Meyn

### **Juliana Ranches**

Major: *Animal Sciences*

Dissertation: Strategies of Trace Mineral Supplementation for Beef Cattle and Metabolic Differences of Copper and Selenium between *Bos indicus* and *Bos taurus* Cattle

Dissertation Chair: J. D. Arthington

### **Michael K. Riley II**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Development of Lignin Nanomaterials for the Delivery of Nucleic Acids

Dissertation Chair: W. Vermerris

### **Miguel Eduardo Rodriguez Rodriguez**

Major: *Computer Engineering*

Dissertation: Reasoning over Multi-Source and Dynamic Knowledge Graphs

Dissertation Chair: Z. Wang

### **Martha Cecilia Rosero Peña**

Major: *Sociology*

Dissertation: The Important Things for Us. Resilience and Relationality in Colombian Ethnic Contexts during Times of Crisis

Dissertation Chair: S. Perz

### **Christopher Calvert Samouce**

Major: *Physics*

Dissertation: Self-Assembly of Single-Walled Carbon Nanotube Films for OLED Applications

Dissertation Chair: A. G. Rinzler

### **Marcia Kay Schneider**

Major: *Rehabilitation Science*

Dissertation: Establishing Grip Strength Testing Procedures for Children Ages 5-15 Using the DynEx Dynamometer with the Child's Handle Adapter

Dissertation Chair: O. Shechtman

### **Louis Alan Searcy**

Major: *Chemistry*

Dissertation: Innovations in Mass Spectrometry Imaging for Metabolomics

Dissertation Chair: R. A. Yost

### **Liliane Severino da Silva**

Major: *Agronomy*

Dissertation: Ecosystem Services of Grass- and Legume-Based Year-Round Forage Systems Managed under Grazing or Hay Harvest

Dissertation Chair: L. E. Sollenberger

### **Yash Y. Shah**

Major: *Materials Science and Engineering*

Dissertation: Designing Superparamagnetic Iron Oxide Particles Based Assays to Characterize Disease Features in Osteoarthritis

Dissertation Chair: J. P. Dobson

Dissertation Co-chair: K. Allen

### **Jie Shao**

Major: *Pharmaceutical Sciences—Pharmacy*

Minor: *Statistics*

Dissertation: Investigation on Pulmonary Targeting of Inhaled Corticosteroids

Dissertation Chair: G. Hochhaus

### **Steven Shen**

Major: *Chemistry*

Dissertation: Extraction and Polymerization of Bioaromatics from Megacrops

Dissertation Chair: S. A. Miller

**Michael Boyer Sims**

Major: *Chemistry*

Dissertation: Leveraging Imine Chemistry to Design Dynamic Macromolecules at the Residual, Microstructural, and Topological Scale

Dissertation Chair: B. S. Sumerlin

**Ishita Singh**

Major: *Chemical Engineering*

Dissertation: Micropatterning Hydrogels with Three-Dimensionally Oriented, Anisotropic, Porous Structures Using Magnetic Templating

Dissertation Chair: C. Rinaldi

**Sarthak Mohan Singhal**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Oxytocinergic Modulation of Neurotransmission in the Rodent Medial Prefrontal Cortex and Lateral Septum

Dissertation Chair: C. J. Frazier

**Morgan Jade Smith**

Major: *Medical Sciences—Genetics*

Dissertation: The Characterization of SIRPG and Its Role in Type 1 Diabetes

Dissertation Chair: P. J. Concannon

**Tiffanie Ra'Chawn Smith**

Major: *Human-Centered Computing*

Dissertation: Makin' Math Move: A Full Body Interactive Learning Environment For Pre-Algebraic Practice

Dissertation Chair: J. E. Gilbert

**Adia R. Sovie**

Major: *Wildlife Ecology and Conservation*

Dissertation: Response of Vertebrates to Hardwood and Shrub Encroachment in South Eastern Longleaf Pine Savannas

Dissertation Chair: R. A. McCleery

**Benjamin Scott Spearman**

Major: *Biomedical Engineering*

Dissertation: Advanced Uses for Methacrylated Hyaluronic Acid in Peripheral Nerve Tissue Engineering

Dissertation Chair: C. E. Schmidt

**Jeffrey Glen St. Clair**

Major: *Mechanical Engineering*

Dissertation: Microscale Modeling of Multiphase Interactions in Energetic Systems

Dissertation Chair: S. Balachandar

**Lisa M. Stedman-Falls**

Major: *Psychology*

Minor: *Entrepreneurship*

Dissertation: Technology-Based versus In-Person Deposit Contract Treatments for Promoting Physical Activity and Weight Loss

Dissertation Chair: J. Dallery

**Mary C. Stevens**

Major: *Horticultural Sciences*

Dissertation: Ethanedinitrile for Use as a Pre-Plant Soil Fumigant in Florida Plasticulture Systems

Dissertation Chair: J. H. Freeman

Dissertation Co-chair: P. J. Dittmar

**Matthew Blake Strickland**

Major: *History*

Dissertation: "Civilizing Slavery": Imperialism, Anglicanism, and African Slavery in Barbados

Dissertation Chair: J. F. Sensbach

Dissertation Co-chair: J. L. Harland-Jacobs



**Kensworth Christopher Subratie**

Major: *Electrical and Computer Engineering*

Dissertation: *Cyber-Infrastructure for Edge Networking and Building Connected Communities in the IoT Era*

Dissertation Chair: R. J. Figueiredo

**Yongduo Sun**

Major: *Plant Molecular and Cellular Biology*

Dissertation: *Exploring and Exploiting Host Immune Responses to Defend Plants against Citrus Tristeza Virus*

Dissertation Chair: S. Y. Folimonova

**Flavia Tabay Zambon**

Major: *Horticultural Sciences*

Dissertation: *Roles of Endogenous Plant Hormones and Micronutrient Nutrition in Enhanced Tolerance of Huanglongbing in Citrus*

Dissertation Chair: J. W. Grosser

**Ebenezer E. Tackey-Otoo**

Major: *Design, Construction and Planning*

Dissertation: *Evaluating Quaternary Concrete Mix Designs for FDOT Class II Bridge Deck Using Type 1L Cement*

Dissertation Chair: L. C. Muszynski

Dissertation Co-chair: R. R. Issa

**Aristide Takoukam Kamla**

Major: *Veterinary Medical Sciences*

Dissertation: *Genetic Diversity, Diet, and Habitat Quality of the African Manatee (*Trichechus senegalensis*) in the Downstream of the Sanaga River Watershed, Cameroon*

Dissertation Chair: R. K. Bonde

Dissertation Co-chair: R. Francis-Floyd

**Ying Tang**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: *Aberrant Innate Lymphoid Cell Plasticity Contributes to Acute and Chronic Inflammation*

Dissertation Chair: S. C. Glover

**Xun Tao**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: *Elucidating Target Site Concentrations for Bacterial and Viral Infections: How to Cure Them*

Dissertation Chair: J. B. Bulitta

**Patricia Cosendey Tavares**

Major: *Romance Languages—Spanish*

Dissertation: *La ciencia y el científico transgresor en la literatura del Cono Sur: Brasil, Argentina y Uruguay 1870-1925*

Dissertation Chair: M. E. Sorbille

**Shawn David Taylor**

Major: *Interdisciplinary Ecology*

Dissertation: *Forecasting Plant Phenology: An Assessment of Data Sources and Estimators, and a Fully Automated Implementation*

Dissertation Chair: E. P. White

**Mercedes B. Tejera Garcia de la Concha**

Major: *Romance Languages—Spanish*

Dissertation: *La mujer y la máquina cibernética, ginoideas y replicantes en la ciencia ficción iberoamericana (2005-2015)*

Dissertation Chair: M. E. Ginway

**Ho Ming Tong**

Major: *Chemical Engineering*

Dissertation: *Growth of Chalcopyrites and Kesterites for Absorber Layers in Solar Cells*

Dissertation Chair: K. J. Ziegler

Dissertation Co-chair: T. J. Anderson

**Amanda Jean Townsend**

Major: *Astronomy*

Dissertation: Big Science with Small Telescopes: Novel Optical Instrumentation and Compact Object Observations

Dissertation Chair: S. S. Eikenberry

**Nhi Thao Tran**

Major: *Chemistry*

Dissertation: Pulmonary Surfactant: A Model System for Solid-State NMR Applications and Methods Development

Dissertation Chair: G. E. Fanucci

Dissertation Co-chair: J. R. Long

**Luke Morris Trimmer-Smith**

Major: *Zoology*

Dissertation: Development of a Biologically Relevant Fish-Virus Model System

Dissertation Chair: M. L. Wayne

**PingFang Tsai**

Major: *Medical Sciences—Medical Physics*

Dissertation: Strategies for Preventing Setup Errors and Enhancing Treatment Accuracy toward Adaptive Motion Management in Radiation Therapy

Dissertation Chair: C. Liu

Dissertation Co-chair: B. Lu

**Mythreyi Unni**

Major: *Chemical Engineering*

Dissertation: Design of Magnetic Nanoparticles to Probe Diffusion in Biological Fluids and for Use in Magnetophoretic Cell Capture

Dissertation Chair: C. Rinaldi

**Sascha van Boemmel-Wegmann**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Treatment Patterns, Healthcare Resource Use, and Gastrointestinal Safety of Metastatic Melanoma Therapies with a Particular Emphasis on Immune-Checkpoint Inhibitors

Dissertation Chair: H. Park

**Claudia Andrea Vargas Grant**

Major: *Curriculum and Instruction*

Minor: *Geology*

Dissertation: STEM Identity Development in Minoritized Youth

Dissertation Chair: P. Antonenko

Dissertation Co-chair: B. J. MacFadden

**Derrick R. Vaughn**

Major: *Geology*

Dissertation: Changes in Blue Carbon Burial Rates and Vegetation with Macroclimate Variability in Intertidal Wetlands of Northern Florida

Dissertation Chair: T. S. Bianchi

**María C. Vélez-Climent**

Major: *Plant Pathology*

Dissertation: Evaluation of Southern Highbush Blueberry Cultivars for Resistance to Major Fungal Diseases in Florida and Population Genetics of Anthracnose Fungi Affecting North and Central Florida Blueberry Production

Dissertation Chair: P. F. Harmon

**Danielle Madeline Vermilyea**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Peptidylarginine Deiminase Modulates *Porphyromonas gingivalis* Physiology and Pathogenic Potential

Dissertation Chair: M. E. Davey

**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

**Sharon K. Walsh**

Major: *Curriculum and Instruction*

Dissertation: Adolescent Motivation to Read for Pleasure in the Digital Age

Dissertation Chair: K. M. Dawson

Dissertation Co-chair: A. D. Ritzhaupt

**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

**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

**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

**HsinRo Wei**

Major: *Research and Evaluation Methodology*

Dissertation: Hybrid Computerized Adaptive Testing: Combined MST and Testlet CAT

Dissertation Chair: D. Miller

**Anna L. Weissman**

Major: *Political Science*

Dissertation: The Limits of Tolerance: LGBTQ Parenting Rights and the (Re)Production of National Identity in Europe

Dissertation Chair: B. B. Smith

**Elliott Emanuel White Jr.**

Major: *Environmental Engineering Sciences*

Dissertation: Quantifying the Effects of Chronic, Low-Level Salinity on Coastal Floodplain Swamps of the Northern Gulf of Mexico

Dissertation Chair: D. A. Kaplan

**David Thomas Shim Wilson**

Major: *Electrical and Computer Engineering*

Dissertation: Overlay Strategies and Optimizations for Rapid FPGA Application Development

Dissertation Chair: G. M. Stitt

**Bingcao Wu**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Real-World Evidence of Antidepressants Use in Breast Cancer Women with Post-Diagnosis Major Depressive Disorder: A Retrospective Cohort Study

Dissertation Chair: H. Xiao

**Qiong Wu**

Major: *Chemistry*

Dissertation: Optical Mechanism of Assembled DNA-Based Silver Clusters and Their Applications in Cancer Theragnostic

Dissertation Chair: W. Tan

### **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

### **Kun Yang**

Major: *Coastal and Oceanographic Engineering*

Dissertation: *Generating High-Resolution Probabilistic Inundation Maps under Current and Future Climates and Application of Rapid Forecast System in Southwest Florida*

Dissertation Chair: Y. P. Sheng

### **Shuo Yang**

Major: *Electrical and Computer Engineering*

Dissertation: *Golden Chip-Free Hardware Trojan Detection Using Self-Referencing*

Dissertation Chair: S. Bhunia

### **Simon Yeboah**

Major: *Entomology and Nematology*

Dissertation: *Development of IPM Tools for Managing *Anastrepha suspensa* and *Bactrocera dorsalis* in Guava and Mango Orchards*

Dissertation Chair: O. E. Liburd

Dissertation Co-chair: N. C. Leppla

### **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

### **Ye Yuan**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: *The Anti-Aging Effect of Human Alpha 1 Antitrypsin*

Dissertation Chair: S. Song

### **Aleksandra Aleksandrovna Zagulyaeva**

Major: *Chemistry*

Dissertation: *Toward Elucidating the Mechanism of Action of Mbth-Like Proteins: A Comprehensive Approach*

Dissertation Chair: S. D. Bruner

### **Katheryn Zambrana**

Major: *Criminology, Law, and Society*

Dissertation: *Using Strain and Neutralization to Understand Deviance among Student-Athletes*

Dissertation Chair: L. M. Lanza Kaduce

Dissertation Co-chair: J. L. Wilson

### **Charles J. Zeman IV**

Major: *Chemistry*

Dissertation: *Computational and Spectroscopic Analysis of the Photophysical and Mechanical Properties of Conjugated Compounds*

Dissertation Chair: K. S. Schanze

### **Ruochen Zeng**

Major: *Design, Construction and Planning*

Dissertation: *Development of a Design System Based on Embodied Energy, Carbon Emissions and Costs of Buildings in Early Design Phase*

Dissertation Chair: A. R. Chini

Dissertation Co-chair: R. Ries

**Kai Zhang**

Major: *Computer Engineering*

Dissertation: Convolutional Spline Framework for Forward and Back-Projection in Non-Parallel Geometry

Dissertation Chair: A. Entezari

**Shuaifang Zhang**

Major: *Mechanical Engineering*

Dissertation: A Phase Field Model Describing Fracture in Anisotropic Brittle Materials

Dissertation Chair: M. Tonks

**Xumin Zhang**

Major: *Food and Resource Economics*

Dissertation: Three Essays on Investigating Homeowners' Preferences for Environmentally Friendly Residential Landscapes

Dissertation Chair: H. Khachatryan

Dissertation Co-chair: L. A. House

**Youlin Zhang**

Major: *Computer Science*

Dissertation: Exploiting the Physical Layer of RFID Systems for New Protocol and Application Designs

Dissertation Chair: S. Chen

**Zhiyuan Zhao**

Major: *Chemical Engineering*

Dissertation: Dynamics and Magnetization Dynamics of Magnetic Nanoparticles in Applied Magnetic Fields

Dissertation Chair: C. Rinaldi

**Xiaochen Zhu**

Major: *Physics*

Dissertation: Schottky Junctions Coupled to Emergent Layered Materials

Dissertation Chair: A. F. Hebard

**Zhengbo Zhu**

Major: *Chemistry*

Dissertation: Redox-Neutral C-H Functionalization of Amines and Conjugated-Base-Stabilized Carboxylic Acid Catalysis

Dissertation Chair: D. Seidel

# DOCTOR OF EDUCATION

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## **Marietta Smith Adams**

Major: *Curriculum and Instruction*

Dissertation: An Exploration of a Teacher Educator's Coaching and Teacher Candidates' Considerations of Developmentally Appropriate Practice in Lesson Study

Dissertation Chair: N. L. Dana

Dissertation Co-chair: A. Murata

## **Jessica M. Alea**

Major: *Curriculum and Instruction*

Dissertation: Developing Coaching Skills with Teachers in High Poverty Settings: A Practitioner Research Self-Study

Dissertation Chair: A. J. Adams

## **Paul Austin Baker**

Major: *Curriculum and Instruction*

Dissertation: A Case Study on Elementary School Teachers' Conceptions of the Relationship among Pedagogy, Space, and Technology

Dissertation Chair: K. M. Dawson

## **Aimee Hardy Barber**

Major: *Curriculum and Instruction*

Dissertation: Bringing an Equity-Focus to Practitioner Inquiry Embedded in Teacher Candidate Internships

Dissertation Chair: N. L. Dana

## **Karen Sue Blaze**

Major: *Curriculum and Instruction*

Dissertation: Helping Students Succeed: The Practices of Principals Who Transformed Failing Schools into Successful Schools

Dissertation Chair: E. Bondy

## **Tobie Lyn Colunio**

Major: *Educational Leadership*

Dissertation: Effective Approaches for Working with At-Risk High Schoolers: Perceptions of School Leaders

Dissertation Chair: L. J. Searby

## **Ann Marija Harding**

Major: *Curriculum and Instruction*

Dissertation: On Becoming a Visible Queer Educator: An Autoethnography

Dissertation Chair: E. Bondy

## **Jennifer M. Homard**

Major: *Higher Education Administration*

Dissertation: What's in a Number? Exploring the Correlation between High School Grade Point Average and Success in a Dual Enrollment Program

Dissertation Chair: D. A. Kramer

## **Bradley Robert Manker**

Major: *Curriculum and Instruction*

Dissertation: Elementary Teachers' Use of Twitter as an Informal Professional Development and Networking Tool

Dissertation Chair: S. Kumar

## **Joni R. McReynolds**

Major: *Curriculum and Instruction*

Dissertation: Why Do They Stay? Reasons Early Childhood Professionals Remain in the Classroom

Dissertation Chair: V. A. Vescio

**Jennifer Silvers Miller**

Major: *Curriculum and Instruction*

Dissertation: The Efficacy of Explorations in Chemistry among Native Hawaiian High-Schoolers

Dissertation Chair: E. Bondy

**Ross Eric Miller**

Major: *Curriculum and Instruction*

Dissertation: Practice and Pedagogy: ICT Usage in a Private Japanese University

Dissertation Chair: S. Kumar

**Rachel Gwynne Moss Ellsworth**

Major: *Curriculum and Instruction*

Dissertation: Using Curriculum Mapping to Identify Improvements in an On-the-Job Training Program: Initiating a Program Evaluation Using the CIPP Evaluation Model

Dissertation Chair: K. M. Dawson

**Rachel Hope Orgel**

Major: *Curriculum and Instruction*

Dissertation: Socializing for Social Justice: How Cogenerative Dialogues with Early Adolescent Black Males Foster Relationship Building in a Large, Suburban Elementary School

Dissertation Chair: C. L. Busey

**Colleen Pellerito**

Major: *Curriculum and Instruction*

Dissertation: Using Intervention Strategies to Improve Decoding and Comprehension in Students with Disabilities

Dissertation Chair: S. G. Terzian

Dissertation Co-chair: E. Bondy

**Rachel Holly Scott**

Major: *Curriculum and Instruction*

Dissertation: Path Analysis of Technology Integration Factors in Magnet Schools

Dissertation Chair: A. D. Ritzhaupt

**Kimberly Strain Sparger**

Major: *Curriculum and Instruction*

Dissertation: Exploring High School Students' Engagement and Learning in a Mobile Algebra Nation™ Environment

Dissertation Chair: P. Antonenko

**Heather E. Stefanski**

Major: *Curriculum and Instruction*

Dissertation: Teachers' Experiences Using the Scaffolded TPACK Lesson Design Model: A Case Study

Dissertation Chair: N. L. Dana

**Cicely J. Tyson-White**

Major: *Educational Leadership*

Dissertation: The Association between Teacher Engagement and School Performance: A Correlational Study of Climate Surveys and School Accountability Grades

Dissertation Chair: C. H. Redding

Dissertation Co-chair: L. B. Eldridge

## DOCTOR OF AUDIOLOGY

Liat Azoulay  
Sherril Lynn Goodman

Barbara Jean Griffith  
Brendan McDonald

Lui Sung  
Lee A Vento

## DOCTOR OF BUSINESS ADMINISTRATION

Raymond Bruce Johnson

## DOCTOR OF NURSING PRACTICE

Mara Magee Lance

## DOCTOR OF PHYSICAL THERAPY

Calvin Frederick Cagney

## DOCTOR OF PLANT MEDICINE

Arjun Khadka

# PROFESSIONAL DEGREES

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## THE FREDRIC G. LEVIN COLLEGE OF LAW

---

### Dean Laura A. Rosenbury

## DOCTOR OF JURIDICAL SCIENCES IN TAXATION

Musaad F. Alwohaibi

## JURIS DOCTOR

Michael T. Auer  
Michael C. Bilirakis  
Eddie Edwards

Jeffrey M. Houzenga  
Michael Jonathan Restrepo

Madysen McCallister Scott-Cavitt  
Anastasia Snetkova Landry  
Michael J. Tamayo

## MASTER OF LAWS IN COMPARATIVE LAW

Ashir Aitkaliyev

Juan M Campos-Gutierrez  
Liling Jin

Muhammad Usman

## MASTER OF LAWS IN INTERNATIONAL TAXATION

Mashood Abdul-Mumuni

Xiaotong Guan

Xinyue Liu

## THE COLLEGE OF PHARMACY

---

### Dean Julie A. Johnson

## DOCTOR OF PHARMACY

Tamer A. Abbas  
Fasiha Ahmed  
Karine D. Alleyne  
Andrea J. Barnes Peppard  
William Asael Barrett  
Abigail M. Capito  
Valencia Sheletia Culmer

Michael Vincent Ercolano  
Michael T. Erho  
Kevin Mark Foster  
Elio Albert Gould  
Lamia Ibrahim  
Stephanie J. King  
Suzan Marie Kubinec-Kastiak  
Liuna Hongwei Liu

Uchechukwu J. Madusque  
Johanna Antivola Ongsioco  
Jerald Joseph Pero  
Greg Slevin  
Gregory Michael Slobodian  
Craig Masao Takahashi  
Isabel Tolentino





## 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. 7 in U.S. News & World Report "Top Public Universities" (2020); No. 12 in the Wall Street Journal/Times Higher Education list of Best Public Colleges (2017); No. 3 on the Forbes' list of Best Value Public Universities (2017); No. 1 on Value Colleges' list of Top 50 Best Value Colleges (2016); and No. 1 on the Times Higher Education list of best public universities for employers to find new hires.

### Faculty

- UF has more than 5,000 faculty members with distinguished records in teaching, research and service, including 36 Eminent Scholar chairs and 45 faculty elections to the National Academy of Sciences, Engineering, the National Academy of Medicine or the American Academy of Arts and Sciences.
- Awards include two Pulitzer Prizes, NASA's top award for research, and the Smithsonian Institution's conservation award.

### Students

- Ninety-seven percent of incoming freshmen score above the national average (1500/21) on standardized exams. Students admitted for the fall 2018 freshman class had an average 4.45 GPA and an average SAT score of 1370.
- The freshman retention rate of 96 percent is among the highest in the country.
- UF awards more professional degrees to African American, Hispanic and other minority students than any other public university in the Association of American Universities (2014-15).
- Sixty-seven percent of UF full-time freshmen graduate in four years (2011-12 cohort), and 87 percent of UF freshmen graduate within six years (2009-10 cohort).
- Fifty-seven percent of UF graduates leave the university with no student-loan debt. For the remaining students, their average indebtedness is about \$21,603, as compared with the national average of more than \$30,000 (2015-16).

**UF**

2019 FALL  
COMMENCEMENT



## Chain of Office

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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

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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 staff is carved from cherry wood. The

four pillars supporting the globe represent the four original colleges: Agriculture, Engineering, Law, and Liberal Arts. The staff is carved from cherry wood. The university's chief marshal, who leads all academic processions, carries the mace.



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## Diplomas

Diplomas will be mailed to the graduate's diploma mailing address in February 2020.

**UF**

2019 FALL  
COMMENCEMENT

## Caps and Gowns, An Explanation

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



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

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

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

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

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## **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**