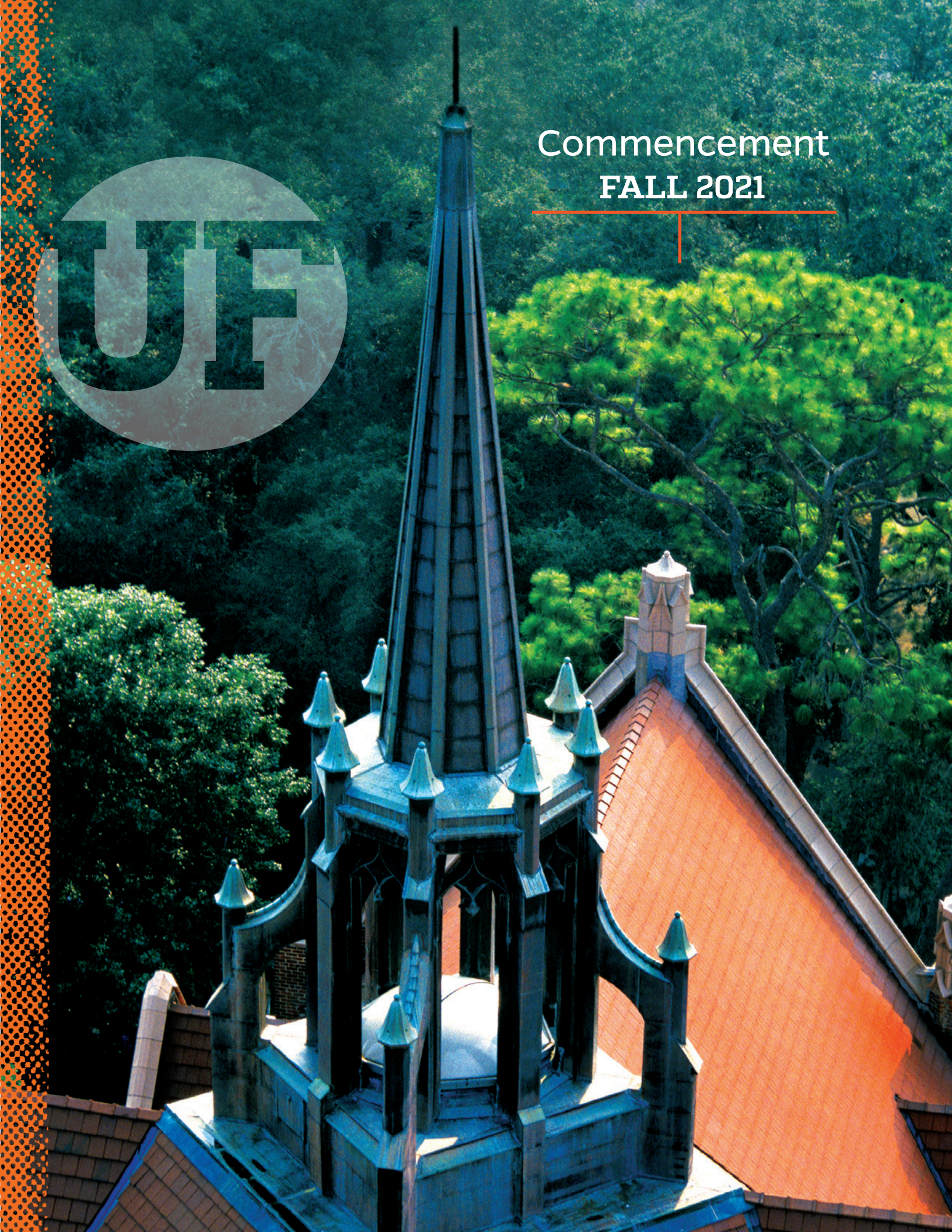


# Commencement

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

Commencement  
FALL 2021



## Greetings from the President

---

**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 the historic year of 2021.

Today's ceremony celebrates your remarkable accomplishment in earning a doctoral degree from a Top 5 public research university. I applaud you for your years dedicated to in-depth scholarship, thoughtful analysis and meticulous presentation of your findings — and for bringing these efforts to completion while overcoming the hardships of a historic pandemic. 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, analysis skills and resilience you honed as a doctoral student will serve you well. The complexity and global nature of today's professional opportunities demand nothing less.

The university has benefited from your research work, teaching, insights and discoveries, and we are grateful to you for your time here. You are a special class, and though we know your experience has been different, we hope that you will look back on it with fondness and appreciation, and that you will remain connected to UF as active members of our distinguished alumni.

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 since reached its goal of joining the nation's Top 5 public research universities.

UF continues to advance through the addition of 600 new faculty positions, the construction of advanced and beautiful university facilities, a university wide artificial intelligence initiative and a fundraising campaign that is expected to reach \$4 billion by the end of 2022, a billion over its original goal.

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 Institution 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.

**UF**

2021 FALL  
COMMENCEMENT

# University of Florida Leadership

---

## State Board of Education

**Richard Corcoran**

*Commissioner of Education*

**Tom Grady**

*Chair*

**Ben Gibson**

*Vice Chair*

**Monesia Brown**

**Marva Johnson**

**Ryan Petty**

**Andy Tuck**

**Joe York**

## Florida Board of Governors

**Marshall M. Criser III**

*Chancellor*

**Richard Corcoran**

*Commissioner of Education*

**Sydney Kitson**

*Chair*

**Brian Lamb**

*Vice Chair*

**Tim Cerio**

**Aubrey Edge**

**Patricia Frost**

**Edward Haddock**

**H. Wayne Huizenga, Jr.**

**Nastassia Janvier**

**Ken Jones**

**Darlene L. Jordan**

**Alan M. Levine**

**Charles H. Lydecker**

**Steven M. Scott**

**William Self**

**Eric Silagy**

**Kent Stermon**

## University of Florida Board of Trustees

**Morteza “Mori” Hosseini**

*Chair*

**Thomas G. Kuntz**

*Vice Chair*

**David C. Bloom**

**David L. Brandon**

**Cooper L. Brown**

**Richard P. Cole**

**Christopher T. Corr**

**James W. “Bill” Heavener**

**Daniel T. O’Keefe**

**Rahul Patel**

**Marsha D. Powers**

**Fred Ridley**

**Anita G. Zucker**

## President and Vice Presidents of the University

**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*

**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*

**Marsha McGriff, Ph.D.**

*Chief Diversity Officer and Senior Adviser to the President*

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

*Vice President - Advancement*

**D’Andra Mull, Ph.D.**

*Vice President - Student Life*

**David Norton, Ph.D.**

*Vice President - Research*

**Mary G. Parker, Ed.D.**

*Associate Provost and Vice President - Enrollment Management*

**Nancy Paton, M.S.**

*Vice President - Strategic Communications and Marketing*

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

*Vice President - Business Affairs*

---

## Deans of the University

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

*College of Agricultural and Life Sciences*

**Onye P. Ozuzu, M.F.A.**

*College of the Arts*

**Sabyasachi Mitra, 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*

**Nicole L.P. Stedman, Ph.D.**

*The Graduate School*

**Michael Reid, Ph.D.**

*College of Health and Human Performance*

**Andra Johnson, Ph.D.**

*IFAS Extension*

**Robert Gilbert, Ph.D.**

*IFAS Research*

**Leonardo Villalón, Ph.D.**

*International Center*

**Hubert Brown, M.A.**

*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*

**Colleen Koch, M.D., M.S., M.B.A.**

*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.**

*College of Veterinary Medicine*

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

*University Libraries*

**Heather White, Ph.D.**

*Dean of Students*

## COMMENCEMENT AGENDA – FRIDAY, DECEMBER 17, 2:00 P.M.

---

Presiding	Kent Fuchs <i>President</i>
Processional	
National Anthem	Vocalist: Anthony Offerle Faculty Brass Quintet: Paul Basler, Ben Elgan, Randy Lee, Jemmie Robertson, Danielle VanTuinen
Welcome	Kent Fuchs
Introductions	Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i>
Presentation of Honorary Doctor of Science Degree Presented by Recipient	Joseph Glover R. William Petty, M.D.
Commencement Address	David H. Reitze <i>Executive Director of the LIGO Laboratory, California Institute of Technology</i>
Presenting Candidates for Degrees	Joseph Glover
Conferring of Degrees	Kent Fuchs
Recognition of Graduates	
Closing Remarks	Kent Fuchs
Alma Mater	Anthony Offerle Faculty Brass Quintet
Recessional and Postlude	

# Honorary Degree, Doctor of Science Recipient

---

## **R. William Petty, M.D.**

R. William Petty, M.D., was a professor at the University of Florida College of Medicine from July 1975 to September 1998. He received his B.S., M.S., and M.D. degrees from the University of Arkansas and completed his residency in orthopaedic surgery at the Mayo Clinic in Rochester, Minn. Dr. Petty also served as chairman of the UF Department of Orthopaedics and Rehabilitation from July 1981 to January 1996. Other service included being a member of the Board of Directors for UF Health Shands Hospitals, an examiner for the American Board of Orthopaedic Surgery, a member of the Orthopaedic Residency Review Committee of the American Medical Association, a member of the Editorial Board of the Journal of Bone and Joint Surgery and serving on the Executive Board of the American Academy of Orthopaedic Surgeons. He holds the Kappa Delta Award for Outstanding Research from the American Academy of Orthopaedic Surgeons. His book "Total Joint Replacement" was published in 1991.

As a faculty member, Dr. Petty was known as a calm and thorough educator, always intent upon teaching the delivery of the best possible care while embracing innovative solutions to patient issues. As a department chairman for more than 15 years, he led the Department of Orthopaedics and Rehabilitation through a period of exceptional growth while always maintaining excellence in patient outcomes. A prolific researcher and caring physician, Dr. Petty was the epitome of balance between UF Health's scientific and patient care missions.



His contributions to the field of orthopaedics continued long after his departure from UF. He has reshaped the technology and science around joint replacement and other procedures through the founding and expansion of his company, Exactech, where he served as chairman of the board and chief executive officer from inception until March of 2014, and as president from January 2002 until December 2007. He served as executive chairman until earlier this year. Exactech is considered a world leader in joint replacement technology and tools, and yet had its roots in Dr. Petty's desire to provide better patient care through less invasive surgical techniques.

Dr. Petty, his wife, Betty, and Exactech are generous supporters and exceptional partners for the University of Florida.

# Commencement Speaker

---

## David H. Reitze, Ph.D.

David Reitze holds joint positions as the executive director of the LIGO Laboratory and research professor at the California Institute of Technology. The Laser Interferometer Gravitational Wave Observatory (LIGO) uses gravitational wave detectors to measure the minute ripples in space-time. These waves detected by LIGO can be caused by colliding black holes, merging neutron stars or exploding stars.

Dr. Reitze attended Cardinal Gibbons High School in Ft. Lauderdale, Fla., and received a Bachelor of Arts degree with honors in physics from Northwestern University. He obtained a Ph.D. in Physics from the University of Texas at Austin, receiving an Outstanding Dissertation Award in 1990 for his work on liquid carbon spectroscopy. Following a postdoctoral fellowship at Bell Communications Research and a staff position at Lawrence Livermore National Laboratory, he joined the University of Florida faculty in 1993 in the Physics Department where he remained on the faculty until 2021. He was appointed as the executive director of the LIGO Laboratory at the California Institute of Technology in 2011 where he oversees the scientific and engineering staff responsible for building and operating the LIGO Observatories in Hanford, Wash., and Livingston, La.

His research focuses on the development of ultrasensitive gravitational-wave detectors and gravitational-wave astronomy. Reitze was elected a fellow for these prestigious organizations: the American Association for the Advancement of



Science (2019), the Optical Society of America (2015) and the American Physical Society (2006). He was awarded the National Academy of Sciences' Award for Scientific Discovery in 2017 for his leadership role in LIGO. He is a member and former spokesperson of the LIGO Scientific Collaboration that received numerous awards for the first direct detection of gravitational waves in 2015, including the Special Breakthrough Prize in Fundamental Physics (2016), the Gruber Prize for Cosmology (2016), the American Astrological Society's Bruno Rossi Prize (2017), the Royal Astronomical Society Group Achievement Award 'A' (2017), the Princess Asturias Award for Technical and Scientific Achievement (2017), and the Einstein Medal from the Einstein Society (2017). He serves on numerous oversight and advisory committees for the international physics and astronomy communities.

# GRADUATE SCHOOL

---

NICOLE L.P. STEDMAN, PH.D., ASSOCIATE PROVOST AND DEAN OF THE GRADUATE SCHOOL

---

## DOCTOR OF PHILOSOPHY

---

### **Daniel N. Acton**

Major: *Criminology, Law, and Society*

Dissertation: Sibling Influences: Delinquency and Victimization

Dissertation Chair: C. L. Gibson

### **Jared M. Adams**

Major: *Sociology*

Dissertation: Revisiting the Academic Caste System: Prestige, Gender, and Stratification and Inequality in Academic Networks

Dissertation Chair: R. Vacca

### **Mahya Aghaee**

Major: *Mathematics*

Dissertation: An Unconstrained Optimization Approach to Singular Control Problems

Dissertation Chair: W. W. Hager

### **Atiye Ahmadireskety**

Major: *Chemistry*

Dissertation: Development of Innovative Mass Spectrometric Approaches for the Detection and Quantification of Per-And Polyfluoroalkyl Substances (PFAS) in Solid Matrices

Dissertation Chair: J. A. Bowden

### **Hamzah Hassnein A. Ahmed**

Major: *Medical Sciences—Physiology and Functional Genomics*

Dissertation: Multi-Omics Exploration of the Role of *Fusobacterium* Species in Colorectal Cancer Metabolism

Dissertation Chair: T. J. Garrett

### **Emmanuel Sunday Ajayi**

Major: *Agricultural and Biological Engineering*

Dissertation: Development and Testing of a Dynamic, Mechanistic Heat Stress Model for Ungulates

Dissertation Chair: G. A. Kiker

Dissertation Co-chair: R. A. Bucklin

### **Shailaja Akella**

Major: *Electrical and Computer Engineering*

Dissertation: Neuromodulatory Pattern Analysis for Local Field Potentials

Dissertation Chair: J. C. Principe

### **Anfal Fares Al-Aibani**

Major: *Civil Engineering*

Dissertation: Durability Evaluation of Impounded Class C Fly Ash as a Supplementary Cementitious Material

Dissertation Chair: K. A. Riding

### **Majid S. Alhomidan**

Major: *Linguistics*

Dissertation: Loanword Adaptation in Najdi Arabic

Dissertation Chair: C. R. Wiltshire

### **Majid Allahyari**

Major: *Mechanical Engineering*

Dissertation: Simulation of Turbulent/Multiphase Flows and the Use of Deep/Machine Learning

Dissertation Chair: S. Balachandar



**Mohammed Alqabbaa**

Major: *Research and Evaluation Methodology*

Dissertation: A Comparison between the Use of Latent D-Scoring Method Models and Item Response Theory Models with Respect to Item Fit and Person Recovery Parameter

Dissertation Chair: A. C. Manley

**Mohammed A. Alrugaibah**

Major: *Food Science*

Dissertation: Natural Deep Eutectic Solvents as Green Media to Extract Phenolic Compounds from Agricultural By-Products

Dissertation Chair: L. Gu

**Marliz Arteaga Gómez-García**

Major: *Interdisciplinary Ecology*

Dissertation: Multilevel Environmental Governance in the Amazon: The Case of Madera Hydroelectric Dam Complex Bolivia and Brazil

Dissertation Chair: S. G. Perz

**Benjamin Y. Avuwadah**

Major: *Food and Resource Economics*

Dissertation: Evaluating Conflict Management Policies and the Effect of Conflict on Household Economic Activities and Dietary Diversity: Evidence from Nigeria

Dissertation Chair: J. D. Kropp

Dissertation Co-chair: C. Mullally

**Aram Babcock**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Evaluation of HER2-Directed Therapies in HER2+ Non-Metastatic Breast Cancer in Women

Dissertation Chair: V. Diaby

**Safiya Salem Bakarman**

Major: *Nursing Sciences*

Dissertation: Associations between School Health Infrastructure and Students' Body Mass Index

Dissertation Chair: M. Weaver

**Amrita Bandopadhyay**

Major: *English*

Dissertation: Stranger Women: Migration, Mobility and the Formation of Indo-Caribbean Women's Writing

Dissertation Chair: L. R. Rosenberg

**Mihye Bang**

Major: *English*

Dissertation: Victorian Portrait of the Poet as a Young Man: Victorian Autobiographical Poetry and Masculinizing Youthfulness 1830–1870

Dissertation Chair: P. K. Gilbert

**Kanika Bansal**

Major: *Rehabilitation Science*

Dissertation: Augmenting Clinical Assessments of Post-Stroke Walking Dysfunction

Dissertation Chair: D. K. Rose

**Stefano Barchiesi**

Major: *Interdisciplinary Ecology*

Dissertation: The Nexus between Ecological Restoration, Natural Infrastructure, and Integrated Water Resources Management: The Case of an Endangered Wetland of International Importance as a Nature-Based Solution to River Basin Challenges

Dissertation Chair: C. Angelini

**Sidney Taylor Baudendistel**

Major: *Health and Human Performance*

Dissertation: Pushing the Limits: Real Time Force Feedback to Improve Walking in Parkinson's Disease

Dissertation Chair: C. J. Hass

**Andrew Michael Beauchamp**

Major: *Chemistry*

Dissertation: Synthesis and Characterization of a Tethered Alkylidyne Complex for Ring Expansion Alkyne Metathesis Polymerization

Dissertation Chair: A. S. Veige

**Tabajara Sant'Anna Belo**

Major: *Music*

Dissertation: Ten Studies for Multi-Textural Improvisation on Unaccompanied Guitar

Dissertation Chair: P. S. Richards

**Aftab A. Bhanvadia**

Major: *Electrical and Computer Engineering*

Dissertation: Development of Additive Microfabrication Processes Using Stereolithography for Multifunctional Devices

Dissertation Chair: T. Nishida

**Pankaj Bhowmik**

Major: *Electrical and Computer Engineering*

Dissertation: Smart Vision Sensor: Towards a High-Performance Region-Aware Reconfigurable Edge-Centric Computing Model

Dissertation Chair: C. Bobda

**Kenneth Wayne Black Jr.**

Major: *Fisheries and Aquatic Sciences*

Minor: *Soil and Water Sciences*

Dissertation: Assessing the Impact of Florida's Hard Clam (*Mercenaria mercenaria*) Aquaculture Industry on Nitrogen Cycling in Local Coastal Waters

Dissertation Chair: S. M. Baker

**Arianne Boileau**

Major: *Anthropology*

Dissertation: Identifying Household-Level Political Economy on the Maya/Spanish Frontier: A Zooarchaeological Perspective from Lamanai, Belize

Dissertation Chair: K. F. Emery

**Jyothi Swaroop Bommidi**

Major: *Agricultural Education and Communication*

Dissertation: Understanding Capacities of Community Resilience

Dissertation Chair: S. Galindo

**Robinson Botero Arias**

Major: *Wildlife Ecology and Conservation*

Dissertation: Population Trends and Dynamics, Reproductive Ecology, and Management of Black Caiman (*Melanosuchus niger*) in the Middle Sôimoês River, Mamirauá Reserve, Brazil

Dissertation Chair: B. A. Loiselle

Dissertation Co-chair: J. P. Ross

**Laura Marie Brenskelle**

Major: *Zoology*

Dissertation: Informatics Approaches to Modeling Temporality from Deep Time to Modern Phenology

Dissertation Chair: R. P. Guralnick

**Kellee Heather Britt**

Major: *Plant Pathology*

Dissertation: Virome Analysis of Asian Citrus Psyllid (*Diaphorina citri*) Populations in Florida for Assessing Biological Control Options of Huanglongbing

Dissertation Chair: O. Batuman

**Hunter Christian Burch**

Major: *Electrical and Computer Engineering*

Dissertation: On the Role of Waveguide Polarization in VLF Remote Sensing of the Lower Ionosphere

Dissertation Chair: R. C. Moore

**Samantha Rose Burrell**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Elucidating the Mechanism of Downy Mildew Resistance in the University of Florida Basil Breeding Program

Dissertation Chair: D. G. Clark

**Stephanie M. Calo**

Major: *Linguistics*

Dissertation: Improving the Pronunciation of English Language Learners

Dissertation Chair: G. E. Lord-Ward

**Paula Cristina Cardoso Molinari**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Influence of Heat Stress on Bovine Uterine Health and Immune Cell Function

Dissertation Chair: J. J. Bromfield

**Ching-Yuan Chang**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Endocrine Therapy, Prescription Opioid, and Antidepressant Use among Breast Cancer Survivors

Dissertation Chair: W. J. Lo Ciganic

**Chin-Wei Chang**

Major: *Electrical and Computer Engineering*

Dissertation: Wireless Power Transfer Systems for Smart Textiles

Dissertation Chair: J. Lin

**Lan-Yen Chang**

Major: *Horticultural Sciences*

Dissertation: Ethylene Involvement in Early Chilling Injury Development on Mature-Green Banana

Dissertation Chair: J. K. Brecht

**Alban Hugo René Charlier**

Major: *Chemistry*

Dissertation: Magnetic Resonance Spectroscopic Analysis of Polypeptides: From Unimers to Self-Assemblies

Dissertation Chair: D. A. Savin

**Lakshmi Manasa Sakuntala Chekka**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Personalizing Thiazide Therapy through Clinical and MicroRNA Biomarkers of Response to Thiazides

Dissertation Chair: J. A. Johnson

**Dianteng Chen**

Major: *Physics*

Dissertation: Computational Investigations of Electronic Structure and Magnetic Couplings in Molecular Magnetic Systems

Dissertation Chair: H. P. Cheng

**Hector Chen**

Major: *Physics*

Dissertation: Progress on the Master Equation Approach to the Second-Order Self-Force

Dissertation Chair: B. F. Whiting

**Junhong Chen**

Major: *Food and Resource Economics*

Dissertation: Three Essays on Consumer Food Consumption Behavior in the Food Value Chain: Analysis of Factors Affecting Grocery Store Selection and Food Choice

Dissertation Chair: Z. Gao

**Xiao Chen**

Major: *Physics*

Dissertation: An Exploration of Methods in Study of Electronic Structures

Dissertation Chair: H. P. Cheng

Dissertation Co-chair: P. J. Hirschfeld

**Ziyan Chen**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Real-World Treatment Patterns, Effectiveness, and Cost-Effectiveness Associated with Palbociclib Use in Women with HR+/HER2- Metastatic Breast Cancer

Dissertation Chair: V. Diaby

**Han-Yu Chia**

Major: *Physics*

Dissertation: Complex Modulation and Its Applications

Dissertation Chair: D. B. Tanner

**Diana Choi**

Major: *Chemistry*

Dissertation: Metal Catalysts on Amorphous and Well-Defined Metal Oxide Supports for Parahydrogen Enhanced NMR

Dissertation Chair: C. R. Bowers

**David Wesley Christianson**

Major: *Materials Science and Engineering*

Dissertation: Design of Magnesium Based Alloys

Dissertation Chair: M. V. Manuel

**Jennifer L. Clark**

Major: *Agricultural and Biological Engineering*

Dissertation: Factors Differentiating Small Scale Farm Operators' Reliance on Risk Planning Information Using a Signal Detection Approach to Planning Decisions Under Uncertainty

Dissertation Chair: W. A. Porter

**Christopher M. Clingensmith**

Major: *Soil and Water Sciences*

Dissertation: Diffuse Reflectance Spectroscopy for Enhanced Soil Management at Local and National Scales

Dissertation Chair: S. Grunwald

**Austin Robert Coffman**

Major: *Mechanical Engineering*

Dissertation: Capacity Estimation and Coordination of Flexible Loads for Grid Support

Dissertation Chair: P. Barooah

**Megan Dance Cogburn**

Major: *Anthropology*

Dissertation: Forging Care: Time and the Governance of Pregnancy and Birth in Rural Tanzania

Dissertation Chair: M. T. Østebø

Dissertation Co-chair: A. E. Strong

**Thomas Glen Cole II**

Major: *English*

Dissertation: The Failure to Listen: Challenging the Production of Gendered Medical Ethics in Late-Victorian Popular Fiction

Dissertation Chair: P. K. Gilbert

**Tara Mercurio Counts**

Major: *Youth Development and Family Sciences*

Dissertation: A Multidimensional View of Youth Sport: Investigating Latent Classes of Youth Sport as a Pathway to Resilience

Dissertation Chair: S. D. Lynne

**Wesley Cuadrado-Castillo**

Major: *Materials Science and Engineering*

Dissertation: Dynamic Strain Aging, Static Recrystallization, and Texture Evolution of Dilute Magnesium-Calcium and Magnesium-Calcium-Zinc Alloys

Dissertation Chair: M. V. Manuel

**Danielle L. Cucchiara**

Major: *Public Health*

Dissertation: The Protective Effect of Zinc on Cadmium Toxicity in *Daphnia magna* at the Molecular Level: An Examination of Mechanisms

Dissertation Chair: C. D. Vulpe

**Seth William Currlin**

Major: *Medical Sciences—Neuroscience*

Dissertation: Multiplexed 2D and 3D-Mapping of Human Lymph Node and Spleen

Dissertation Chair: K. Otto

Dissertation Co-chair: H. S. Nick

**Carrie E. De Jesus**

Major: *Wildlife Ecology and Conservation*

Dissertation: Surveillance and Ecology of Tick-Borne Pathogens and Tick-Host Associations of Reptiles and Amphibians in Florida

Dissertation Chair: S. M. Wisely

Dissertation Co-chair: G. E. Glass

**Carolina De Oliveira Jordão**

Major: *Interdisciplinary Ecology*

Dissertation: Saving the Rainforest? Experiences of Being and Acting as NGOs in the Amazon

Dissertation Chair: R. J. Buschbacher

**Nicolas Jean Charles Delsol**

Major: *Anthropology*

Dissertation: Colonizing Cows: A Zooarchaeological and Historical Inquiry on How Cattle Shaped the Post-Columbian Americas

Dissertation Chair: K. F. Emery

**Christian J. Devereux**

Major: *Chemistry*

Dissertation: Furthering the Applicability of the ANI Methodology To Thermodynamics and Electrostatics

Dissertation Chair: A. E. Roitberg

**Alyssa Ann Dewees**

Major: *English*

Dissertation: Daughters of BBQ Becky: 21<sup>st</sup> Century Whiteness and the Remaking of the American South

Dissertation Chair: A. M. Ulanowicz

**Biswadeep Dhar**

Major: *Youth Development and Family Sciences*

Dissertation: Shifting Trends in India from 2005–2012: Modernization and Lifestyle Factors Associated with Obesity and Chronic Disease Disparities among Indian Adults

Dissertation Chair: L. J. O'Neal

Dissertation Co-chair: H. L. Radunovich

**Nicholas M. DiCola**

Major: *Medical Sciences—Neuroscience*

Dissertation: Functional Changes in the Aged Rat Hippocampus During Offline and Online Periods

Dissertation Chair: A. P. Maurer

Dissertation Co-chair: S. N. Burke

**Zuo Ding**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Study of Effects of MEK Inhibitors on Triple Negative Breast Cancer Cells

Dissertation Chair: S. Huang

**Jiaqi Dong**

Major: *Materials Science and Engineering*

Dissertation: From Batch to Flow: An Experimental Study of Precision Gold Nanoparticle Synthesis Using Wet Chemistry

Dissertation Chair: B. M. Moudgil

**Jacqueline A. Donovan**

Major: *Higher Education Administration*

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

Dissertation Chair: J. C. Ortagus

**Pablo Joaquin Dopico**

Major: *Mechanical Engineering*

Dissertation: Isolation of Circulating Tumor Cells Using Microfluidics and the Analysis of Tumor DNA during Cancer Therapy

Dissertation Chair: Z. H. Fan

**Yu Du**

Major: *Criminology, Law, and Society*

Dissertation: Examining and Specifying the Effect of Neuroscientific Evidence on Jurors' Perceptions and Decision Making

Dissertation Chair: L. M. Levett

**Leanne Dumeny**

Major: *Genetics and Genomics*

Dissertation: Clinical and Genetic Predictors of Aldosterone Receptor Antagonist Response in Patients with Heart Failure

Dissertation Chair: L. H. Cavallari

Dissertation Co-chair: J. D. Duarte

**Bradford A. Durant**

Major: *Aerospace Engineering*

Dissertation: Simulations of Explosive Dispersal of Particles under High Speed Conditions

Dissertation Chair: S. Balachandar

**Nathaniel W. Ellis**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Dissection of the Genetic Regulation of Bioenergy Traits and Disease Resistance in *Populus deltoides* and the Creation of an ATAC-seq Atlas of Chromatin Accessibility within *Populus* Tissues

Dissertation Chair: M. Kirst

**Patrick Omid Emami**

Major: *Computer Science*

Dissertation: Neural Algorithms for Object-Centric Scene Understanding

Dissertation Chair: S. Ranka

**Nasser Faghieh**

Major: *Chemistry*

Dissertation: Biosynthesis of Modified Ascarosides and Ligand Discovery Method for Nuclear Hormone Receptors in *C. elegans*

Dissertation Chair: R. A. Butcher

**Zhen Fan**

Major: *Horticultural Sciences*

Dissertation: A Multi-omics Framework for Studying Strawberry Flavor: From Consumers to Genes

Dissertation Chair: V. M. Whitaker

**Marina Ferreira Fonseca Sessim**

Major: *Materials Science and Engineering*

Dissertation: Multiphysics Mesoscale Modeling of Ablative Thermal Protection System Materials

Dissertation Chair: M. Tonks

**Ronald L. Fick Jr.**

Major: *Computer Engineering*

Dissertation: Robust GANs for Semi-Supervised Classification

Dissertation Chair: P. D. Gader

Dissertation Co-chair: A. Zare

**Christopher J. Fields**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Sequencing of Argonaute-Bound miRNA/mRNA Hybrids Reveals Regulation of the Unfolded Protein Response by MicroRNA-320a

Dissertation Chair: M. Xie

**Austin Nathaniel Fife**

Major: *Entomology and Nematology*

Dissertation: Mite-Virus-Plant Complexes of Importance for Florida Agriculture: Early Detection, Chemical Ecology and Biocontrol of *Phyllocoptes fructiphilus* and *Brevipalpus californicus*

Dissertation Chair: X. P. Martini

Dissertation Co-chair: M. Paret

**Christina A. Finegan**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Functional Genomics of Nitrogen Use Efficiency and Nitrogen Fixation

Dissertation Chair: M. F. Ribeiro De Resende, Jr.

Dissertation Co-chair: M. Kirst

**Madison K. Flint**

Major: *Geology*

Dissertation: Evaluating Environmental Controls on Nitrous Oxide Processing in Carbonate Aquatic Systems

Dissertation Chair: J. B. Martin

**Quincy A. Flint**

Major: *Electrical and Computer Engineering*

Dissertation: An Analysis of ELF and VLF Radio Impulses Associated with Transient Luminous Events

Dissertation Chair: R. C. Moore

**Natalie Brooke Fortune**

Major: *English*

Dissertation: Bad Boys Club: Adolescence, Masculinity, and Empire in Victorian Popular Fiction

Dissertation Chair: P. K. Gilbert

**Brett Ryan Freidkes**

Major: *Mechanical Engineering*

Dissertation: The Design and Characterization of a MEMS-Based Dual-Axis Wall Shear Stress Sensor

Dissertation Chair: M. Sheplak

**Tamiko Michelle Gaines**

Major: *Agricultural Education and Communication*

Dissertation: A Mixed Methods Study Analyzing the Relationships between Florida 4H Agents' Self-Efficacy, Intrinsic Motivation and Performance Efficacy during the COVID-19 Pandemic

Dissertation Chair: C. E. Suarez

**Andrew Ryan Garcia**

Major: *Chemical Engineering*

Dissertation: Thermodynamic and Kinetic Crystal Growth Theory for the Design of Metallic and Molecular Crystals

Dissertation Chair: K. J. Ziegler

Dissertation Co-chair: S. Vasenkov

**Rubén Octavio García Vázquez**

Major: *Medical Sciences—Genetics*

Dissertation: Investigating the Effect of Inducing a Mammalian-Like Inflammatory Response in Axolotl Regeneration

Dissertation Chair: E. W. Scott

**Syed Shahbaz Hassan Gardezi**

Major: *Chemistry*

Dissertation: Studies on RNA 2'O-Transphosphorylation; Analysis of the Transition State of HDV Ribozyme and SARS-CoV-2 NSP-15 Mechanism

Dissertation Chair: M. Harris

**Mohammed Olusoji Gbadamosi**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Pharmacogenomic Drivers of Efficacy for Anti-CD33 Immunotherapeutic Treatment Strategies

Dissertation Chair: J. K. Lamba

**Damon Erfan Ghetmiri**

Major: *Mechanical Engineering*

Dissertation: Dynamic Modeling and Control of Blood Coagulation to Personalize Treatment for Trauma-Induced Coagulopathy

Dissertation Chair: A. Menezes

**Pamir Gogoi**

Major: *Linguistics*

Dissertation: Affinity Between Nasality and Breathiness: An Acoustic Analysis

Dissertation Chair: R. Wayland

**Tian Gong**

Major: *Horticultural Sciences*

Dissertation: Characterizing Tomato Rootstocks and Their Impact on Growth, Yield, and Fruit Quality of Grafted Tomato Plants

Dissertation Chair: X. Zhao

Dissertation Co-chair: J. K. Brecht

**Juan M. Gonzalez**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Computer Vision for High Throughput Quantitative Genetics in Sweet Corn

Dissertation Chair: M. F. Ribeiro de Resende, Jr.

**Caleb R. Gravesen**

Major: *Soil and Water Sciences*

Dissertation: The Retention and Release Behavior of Select Antibiotics and PFAS in Municipal Drinking and Wastewater Residuals: Occurrence and Sorption Behavior Informing Soil Applications

Dissertation Chair: J. Judy

**Kyle B. Griffin**

Major: *Agricultural and Biological Engineering*

Dissertation: A Kinetic Model for *Methylosinus 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

**Weihong Gu**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Characterizing Porcine Invariant NKT Cells and Their Immunoregulatory Role in Swine Influenza

Dissertation Chair: J. P. Driver

**Daniel Fernando Guerrero Ibarra**

Major: *Physics*

Dissertation: Search for Non-Resonant Higgs Boson Pair Production in the Four Bottom Quark Decay Channel with the Compact Muon Solenoid Experiment

Dissertation Chair: J. Konigsberg

Dissertation Co-chair: D. E. Acosta

**Ashlyn Rose Elsie Hale**

Major: *Chemistry*

Dissertation: Mn/oxo and Fe/oxo Cluster Chemistry: A Bottom-Up Molecular Approach to Ultra-Small Nanomagnets and Nanoparticles

Dissertation Chair: G. Christou



**John F. Hallas**

Major: *Soil and Water Sciences*

Dissertation: Sustainable Phosphorus Recovery from Small Wastewater Treatment Plants through Struvite Formation

Dissertation Chair: C. Mackowiak

Dissertation Co-chair: A. C. Wilkie

**Peter Uriel Hámor**

Major: *Psychology*

Dissertation: Investigating Neural Circuits and Molecular Substrates Underlying Post-Cocaine Motivational and Cognitive

Deficits: Focus on mGlu5 Receptors

Dissertation Chair: M. Schwendt

**Kira M. Hansen**

Major: *Agricultural and Biological Engineering*

Dissertation: Compact Bed Plasticulture Improves System Efficiency and Reduces Production Risks for Double and Single Row Crops Throughout the Eastern Seaboard of the United States

Dissertation Chair: S. Shukla

**Taylor Allen Harmon**

Major: *Chemistry*

Dissertation: Utilizing Novel Hydrophilic Interaction and Microflow Liquid Chromatography Techniques to Expand Metabolomic Coverage in LC-MS Biomarker Discovery and Quantitation

Dissertation Chair: R. A. Yost

**Eric Yuki Anchordoguy Helm**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: The Transcription Factor Bcl11b Restricts Memory CD8<sup>+</sup> T Cell Residency Programs during Infection and Cancer

Dissertation Chair: D. Avram

**Alexandra M. Hernandez**

Major: *Zoology*

Dissertation: Unraveling Ctenophorology and Its Implications on Early Animal Evolution

Dissertation Chair: J. F. Ryan

**Xinzhe Hu**

Major: *Physics*

Dissertation: Thermodynamics of the Frustrated Pyrochlore Ferromagnet  $\text{Yb}_2\text{Ti}_2\text{O}_7$  and the Field-Induced Quantum Spin Liquid  $\alpha\text{-RuCl}_3$

Dissertation Chair: Y. Takano

**Angkana Tzu-Yun Huang**

Major: *Zoology*

Dissertation: Ecology of Co-Circulating Pathogens in a Demographic Transitioning Host Population

Dissertation Chair: D. A. Cummings

**Kathleen E. Hupfeld**

Major: *Health and Human Performance*

Dissertation: Neurochemical and Brain Structural Correlates of Mobility in Aging

Dissertation Chair: R. D. Seidler

**Mohit Jaiswal**

Major: *Chemistry*

Dissertation: Development of Chemical Tools and Technologies for Probing Cell Surface Glycans

Dissertation Chair: Z. Guo

**Arun Prasad Javvaji**

Major: *Electrical and Computer Engineering*

Dissertation: Efficient Time-Based Circuits for Analog to Digital Converters in Scaled CMOS Processes

Dissertation Chair: N. Maghari

**Jessica A. Jenkins**

Major: *Anthropology*

Dissertation: Evaluating the Role of Social Movements in the Middle-to-Late Woodland Transformation on the Northern Gulf Coast of Florida

Dissertation Chair: K. E. Sassaman

**Congjiao Jiang**

Major: *Psychology*

Dissertation: Self-Other Effects in Decision Making

Dissertation Chair: K. Ratliff

**Myriam Berenice Jimenez Medrano**

Major: *Veterinary Medical Sciences*

Dissertation: Neonatal Weak Calf Syndrome in the Brahman Breed

Dissertation Chair: D. O. Rae

**Jesse A. Johnson II**

Major: *Materials Science and Engineering*

Dissertation: Pulsed Laser Melting of Epitaxial Silicon-Germanium and Synthesis of Titanium-Germanosilicide Contact Liners

Dissertation Chair: K. S. Jones

**Zachary E. Jones**

Major: *Economics*

Dissertation: The Effects of Corporate-Income Taxation and Trade Costs on Foreign Direct Investment

Dissertation Chair: E. Dinopoulos

Dissertation Co-chair: G. Heins

**Youssef Omar Kaddoura**

Major: *Forest Resources and Conservation*

Dissertation: Georeferencing PhenoCam Images for Multi-Modal Fusion with Geospatial Data

Dissertation Chair: B. E. Wilkinson

Dissertation Co-chair: E. N. Broadbent

**Barbara Anna Kazanowska**

Major: *Materials Science and Engineering*

Dissertation: Chemical Wet Etching of  $\text{Al}_x\text{Ga}_{(1-x)}\text{N}$  Nanostructures

Dissertation Chair: K. S. Jones

**Jack P. Kennedy**

Major: *Medical Sciences—Neuroscience*

Dissertation: Movement Related Changes in Cortical Local Field Potentials

Dissertation Chair: A. P. Maurer

**Istvan Kereszy**

Major: *Physics*

Dissertation: A Study of Energetic Radiation from Lightning Using Ground- and Aircraft-Based Detectors and Associated Modeling

Dissertation Chair: V. A. Rakov

**Emily S. Khazan**

Major: *Interdisciplinary Ecology*

Dissertation: Thermal, Community, and Microbial Ecology of Butterflies of the Colombian Andes

Dissertation Chair: J. C. Daniels

Dissertation Co-chair: B. A. Loiselle

**Changwook Kim**

Major: *Health and Human Performance*

Minor: *Family, Youth and Community Sciences*

Dissertation: Unpacking the Global-Local Nexus: The Interface among Sport Industry and Community and Individual Resilience

Dissertation Chair: Y. J. Ko

**Shreedevi Kumar**

Major: *Biomedical Engineering*

Dissertation: Tissue-Specific Targeting of Inflammatory Pathways in Osteoarthritis

Dissertation Chair: B. Sharma

**Brett R. Lane**

Major: *Plant Pathology*

Dissertation: Impact of an Emerging *Bipolaris* Pathogen on the Microbial Community of Invasive *Microstegium vimineum*

Dissertation Chair: E. M. Goss

**Samantha Ann Larson**

Major: *Public Health*

Dissertation: Evaluating State-Level Price Transparency Legislation For Medical Services and Developing a Novel Legislative Strength Framework and Score

Dissertation Chair: R. P. Duncan

Dissertation Co-chair: S. K. Datta

**Christopher T. LeClere**

Major: *Anthropology*

Dissertation: The One with All the Coffee: How Media, Identity, and Nostalgia Help Fuel the Popularity of Coffeehouses

Dissertation Chair: C. M. Tucker

**Jong-Chan Lee**

Major: *Music*

Dissertation: An All-Encompassing Continuum: The Coalescence of Western and Korean Music through Electroacoustic Music

Dissertation Chair: J. P. Sain

**May Lehmensiek**

Major: *Interdisciplinary Ecology*

Dissertation: Occupational Displacement of Commercial Fishers—Case Studies in Florida and Brazil

Dissertation Chair: K. Lorenzen

**Ricardo Alberto Lesmes Vesga**

Major: *Horticultural Sciences*

Dissertation: Root System Architecture of Rootstocks for Peach Production in Florida Soils

Dissertation Chair: L. Rossi

Dissertation Co-chair: J. X. Chaparro

**Calen J. Leverant**

Major: *Chemical Engineering*

Dissertation: Multistimuli-Responsive Photonic Crystal Coatings Enabled by Shape Memory Polymers

Dissertation Chair: P. Jiang

**Amanda N. Lewis**

Major: *Criminology, Law, and Society*

Dissertation: Beyond the Bars—Exploring the Lives of Exonerees and Their Loved Ones as They Cope with Miscarriages of Justice

Dissertation Chair: L. M. Levett

Dissertation Co-chair: M. Ardelt

**Mengchen Li**

Major: *Medical Sciences—Physiology and Functional Genomics*

Dissertation: The Adverse Effects of Modest Chronic Maternal Hypercortisolemia During Late Gestation on Fetal and Neonatal Cardiac Function

Dissertation Chair: M. Keller Wood

**Tao Li**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: The Role of miR-203b-3p in Ovarian Cancer

Dissertation Chair: S. Huang

**Katie Nicole Lindstrom**

Major: *Health and Human Performance*

Dissertation: Examining the Effectiveness of an Image-Based Food Label Nudge on Adult Whole Food Purchasing Choices in a Hypothetical Grocery Store Context

Dissertation Chair: J. A. Tucker

**Chunyao Liu**

Major: *Design, Construction and Planning*

Dissertation: Preserving Historic Interiors: Fashioning History and Taste in New York City and Shanghai

Dissertation Chair: E. K. Cunningham

**Hanwen Liu**

Major: *Chemistry*

Dissertation: Quantifying Photochemical Decomposition of Platinum Precursors for Photoassisted Chemical Deposition

Dissertation Chair: L. A. McElwee-White

**Mingjin Liu**

Major: *Biostatistics*

Dissertation: Analytic Methods for Infectious Diseases Transmission Dynamics Based on Surveillance Data and Genetic Data

Dissertation Chair: Y. Yang

Dissertation Co-chair: S. Datta

**Peng Liu**

Major: *Biomedical Engineering*

Dissertation: Biology and Neuroscience Inspired Deep Learning

Dissertation Chair: R. Fang

Dissertation Co-chair: M. Ding

**Maryanne Long**

Major: *Higher Education Administration*

Dissertation: They Persisted: The Impact of the COVID-19 Pandemic on the Academic and Social Experiences of First-Generation College Students

Dissertation Chair: K. D. Peck Parrott

**Janet Lopez**

Major: *Nursing Sciences*

Dissertation: An Exploration of Minority and Non-Minority Caregiver of Stroke Survivors

Dissertation Chair: J. R. Stacciarini

Dissertation Co-chair: L. Scarton

**Benjamin Shouren Lowe**

Major: *Interdisciplinary Ecology*

Dissertation: Human Dimensions of Global Environmental Change: Quantitative Analyses of the Influence of Religion on Perceptions of Climate Change, Fisheries Management, and Biodiversity Conservation in Tanzania and the United States

Dissertation Chair: S. Jacobson

**Christelle Lteif**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: The Role of ID Proteins on Pulmonary Hypertension Development in Left Heart Failure

Dissertation Chair: J. D. Duarte

**Kyra Nicole Lucas**

Major: *Design, Construction and Planning*

Dissertation: The Formation and Transformation of Roadside America: A Study of the Preservation of American Roadscapes

Dissertation Chair: V. Baweja

Dissertation Co-chair: M. Hylton III

**Sabrina L. Macias**

Major: *Biomedical Engineering*

Dissertation: Inducing Tolerance in Preclinical Psoriasis and the Foreign Body Reaction through Modulation of Immunometabolism

Dissertation Chair: B. G. Keselowsky

**Jasmine Lisette Madrigal**

Major: *Microbiology and Cell Science*

Dissertation: *Journeying through the Intestines Together: Defining the Transkingdom Interactions between Norovirus and Commensal Microbes*

Dissertation Chair: M. K. Jones

**Marina Nancy Carvalho Magalhães**

Major: *Nursing Sciences*

Dissertation: *Maternal Nutrition, Breastfeeding Practices, and Prolonging Lactation: The First One Thousand Days*

Dissertation Chair: L. A. Parker

**Mukhil Azhagan Mallaiyan Sathiaseelan**

Major: *Electrical and Computer Engineering*

Dissertation: *Computer Vision for Printed Circuit Board Surface Analysis*

Dissertation Chair: N. Asadi Zanjani

**Joel Mandebi Mbongue**

Major: *Electrical and Computer Engineering*

Dissertation: *Hardware/Software Infrastructure for Transparent Multi-Tenancy in FPGA-Accelerated Clouds*

Dissertation Chair: C. Bobda

**Amonté Lynell Martin Sr.**

Major: *Forest Resources and Conservation*

Dissertation: *Outdoor Recreational Experiences: Motivations, Constraints, COVID-19, and Safety*

Dissertation Chair: A. E. Adams

Dissertation Co-chair: T. V. Stein

**Rachel Irene Martin**

Major: *Chemical Engineering*

Dissertation: *Adsorption and Reactivity Studies on the IrO<sub>2</sub>(110) Surface Investigated in Ultra-High Vacuum and near Ambient Pressure Conditions*

Dissertation Chair: J. F. Weaver

**Jose I. Martinez Noble**

Major: *Entomology and Nematology*

Dissertation: *Discovering the Origins of the Noctuid Moths and Rewriting the Evolutionary History of Pantheid Moths (*Lepidoptera: Noctuoidea*)*

Dissertation Chair: J. Y. Miller

**Joel John Mathias**

Major: *Electrical and Computer Engineering*

Dissertation: *Balancing the Power Grid with Distributed Control of Flexible Loads*

Dissertation Chair: S. P. Meyn

**Rebecca L. McNulty**

Major: *English*

Dissertation: *The Künstlerroman in Post-Catastrophic Science Fiction*

Dissertation Chair: P. E. Wegner

**David Jonathan Meltsner**

Major: *History*

Dissertation: *School Politics and the Making of the School-To-Prison Pipeline in New York City, 1968-1980*

Dissertation Chair: L. Pearlman

**Matlock M. Mennu**

Major: *Aerospace Engineering*

Dissertation: *On the Design, Computational Modeling, and Mechanics of Morphing Micro Air Vehicles Incorporating Macro Fiber Composites*

Dissertation Chair: P. G. Ifju

**Leandra Mae Merz**

Major: *Geography*

Minor: *Wildlife Ecology and Conservation*

Dissertation: Coupled Human and Wildlife Systems in Southern Africa

Dissertation Chair: B. A. Child

Dissertation Co-chair: J. Southworth

**Scott Rinehart Miller**

Major: *Geology*

Dissertation: Precambrian India from the Hadean to the Proterozoic: Geochemical and Paleomagnetic Investigations of the Singhbhum and Dharwar Cratons

Dissertation Chair: J. G. Meert

**Alec S. Mishkin**

Major: *Physics*

Dissertation: Understanding the Mechanical Loss in Amorphous Materials

Dissertation Chair: H. P. Cheng

**Mrinal Mishra**

Major: *Zoology*

Dissertation: Hybridization Pattern, Selective Forces in Genomic Region of *Bostrychus sinensis* Populations and Diversity, Dynamics of Symbiotic Bacterial Communities in *Bugula neritina* Populations along East China Sea

Dissertation Chair: M. M. Miyamoto

**Brittany A. Mistretta**

Major: *Anthropology*

Dissertation: Nourishing Social Bonds: Tracing the Costly Signals of Ritual Foodways at Two Ceremonial Centers in the Caribbean

Dissertation Chair: W. F. Keegan

**Trina May Mitchell**

Major: *Health and Human Performance*

Dissertation: Structural Neuroimaging Biomarkers in Parkinsonism: Differentiating Atypical Parkinsonism, Tracking Progression and Predicting Health Outcomes

Dissertation Chair: D. E. Vaillancourt

**Pamela Montero Alvarez**

Major: *Interdisciplinary Ecology*

Dissertation: Understanding the Relationship between Conservation and Tourism in the Amazon

Dissertation Chair: S. G. Perz

Dissertation Co-chair: A. M. Almeyda Zambrano

**Patricia Moreno Cadena**

Major: *Agricultural and Biological Engineering*

Dissertation: Modeling the Dynamics of Starch Content in Cassava

Dissertation Chair: G. Hoogenboom

**Ashley McLeod Morin**

Major: *Agricultural Education and Communication*

Dissertation: Strong Societal Connection, Stronger Health Direction: Investigating the Organization-Public Relationship and Science Communication Perceptions toward the CDC during a Pandemic

Dissertation Chair: L. M. Baker

**Roberto Gerardo Munoz-Pando**

Major: *Anthropology*

Dissertation: Archaeology of Money in Colonial Puerto Rico

Dissertation Chair: C. McCarty

**Ekaterina Muravevskaia**

Major: *Human-Centered Computing*

Dissertation: Virtual Reality Empathy Game: Promoting Empathy in Young Children

Dissertation Chair: C. Gardner-McCune

**Kavya Sukumaran Nair**

Major: *Rehabilitation Science*

Dissertation: Disease Progression in Duchenne Muscular Dystrophy with Emphasis on Loss of Ambulation: A Multicenter Longitudinal Study

Dissertation Chair: K. H. Vandeborne

Dissertation Co-chair: S. C. Forbes

**July Dayane Nelson**

Major: *Agricultural Education and Communication*

Dissertation: Developing a Common Evaluation Framework for the NIOSH Centers for Agricultural Safety and Health

Dissertation Chair: S. Galindo

**James I. Nichols**

Major: *Curriculum and Instruction*

Dissertation: Measuring General Education Community College Faculty's Beliefs on Computational Thinking Skills

Correlated with Curriculum Integration Strategies in Higher Education

Dissertation Chair: A. D. Ritzhaupt

**Dmitrii Nikiforov**

Major: *Statistics*

Dissertation: Estimation of High-Dimensional Low-Rank and Sparse Panel Vector Autoregressive Models

Dissertation Chair: G. Michailidis

**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

**Brendan Daniel O'Brien**

Major: *Physics*

Dissertation: Model Independent Study of Binary Black Holes

Dissertation Chair: S. G. Klimenko

Dissertation Co-chair: G. Mitselmakher

**Edward William Ollie**

Major: *Chemistry*

Dissertation: Using Kinetic Isotope Effects to Interrogate RNA Cleavage by 2'-O-transphosphorylation

Dissertation Chair: M. Harris

**Adeoye Oyeniya Oyebade**

Major: *Animal Sciences*

Dissertation: Bacterial Direct-Fed Microbial Supplements in Ruminant Nutrition

Dissertation Chair: A. T. Adesogan

Dissertation Co-chair: D. Vyas

**Torrion M. Pace**

Major: *Political Science*

Dissertation: Orthodox Requires Paradox: Causes and Consequences of Oversight of the FBI—1976–2008

Dissertation Chair: B. A. Rosenson

Dissertation Co-chair: R. S. Conley

**Julio César Pachón Maldonado**

Major: *Soil and Water Sciences*

Minor: *Agricultural and Biological Engineering*

Dissertation: Utilizing Rapid and Novel Indices of Soil Fine Earth Aggregation to Characterize Soil, Water, and Ecosystem

Dissertation Chair: A. Bacon

**Elizabeth Anne Palmer**

Major: *Animal Sciences*

Dissertation: Maternal Gestational Nutrition of *Bos indicus*-Influenced Cows Impacts the Postnatal Development of Offspring

Dissertation Chair: P. Moriel

**Daniel J. Paluh**

Major: *Zoology*

Dissertation: Macroevolutionary Patterns of Phenotypic Diversity across the Frog Tree of Life

Dissertation Chair: D. Blackburn

**Md Jubaer Hossain Pantho**

Major: *Electrical and Computer Engineering*

Dissertation: Towards Efficient Vision-Based Inference Architectures for In-Sensor Processing

Dissertation Chair: C. Bobda

**Beomsoo Park**

Major: *Electrical and Computer Engineering*

Dissertation: Efficient Analog Mixed-Signal Solutions for Embedded Systems: From Security to Communications

Dissertation Chair: N. Maghari

**Smit Patel**

Major: *Biomedical Engineering*

Dissertation: Engineering an in vitro Pancreatic Islet Niche

Dissertation Chair: C. Stabler

**Wang Peng**

Major: *Civil Engineering*

Dissertation: Clustering-Aided Approaches for Real-time Traffic Congestion Management: CAV Coordinated Routing, Carpooling, and Mixed-Modal Carpooling

Dissertation Chair: L. Du

**Daniel Perondi**

Major: *Agricultural and Biological Engineering*

Dissertation: Soybean Production Risk Assessment in the Southeastern USA: A Study Case with Weather Index-Based Insurance and Crop Modeling

Dissertation Chair: C. W. Fraisse

Dissertation Co-chair: J. A. Watson

**Phuong Nguyen Pham**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Comparative Safety of Selective Serotonin Reuptake Inhibitors among Patients with Depression

Dissertation Chair: J. D. Brown

**Michael B. Poindexter**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Use of Vitamin D and Choline to Improve Health and Productivity of Dairy Cows and Their Offspring

Dissertation Chair: C. D. Nelson

Dissertation Co-chair: J. E. Santos

**Elena Polejaeva**

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Ecological-Validity and Attentional Deficits Following Traumatic Brain Injury

Dissertation Chair: W. M. Perlstein

**Ricarda Klara Pritschmann**

Major: *Health and Human Performance*

Dissertation: Feasibility and Acceptability of a Novel Behavioral Economic Coaching Session to Address Physical Activity and TV Watching: An Open Pilot Trial

Dissertation Chair: A. M. Yurasek

**Amanda M. Pritzlaff**

Major: *Chemistry*

Dissertation: Biophysical Steps towards Rational Design of Protein-Polymer Conjugates

Dissertation Chair: M. Harris



**Joseph Radice**

Major: *Linguistics*

Dissertation: *Ally Is a Verb: A Critical Discourse Analysis of Alignment with and within LGBTQ+ Communities in the United States*

Dissertation Chair: D. Boxer

**Widyastri Atsary Rahmy**

Major: *Design, Construction and Planning*

Dissertation: *Green Infrastructure in Urban Regions: A Cross-Scale Conservation Approach and the Challenge of Rapid Land-Use Change in Bandung Basin Region, Indonesia*

Dissertation Chair: T. S. Hoctor

Dissertation Co-chair: C. Silver

**Rodrigo Rampazo Amadeu**

Major: *Horticultural Sciences*

Minor: *Statistics*

Dissertation: *Developing and Evaluating Statistical Methods for Genomic-Assisted Blueberry Breeding*

Dissertation Chair: P. R. Muñoz

**Appajosula Yashodhara Rao**

Major: *Materials Science and Engineering*

Dissertation: *Development of an Artificial Neural Network Model for Predicting the Stress Corrosion Cracking Behaviors of Nuclear Reactor Internal Structural Materials*

Dissertation Chair: Y. Yang

**Allison Wynne Raper**

Major: *Art History*

Dissertation: *The Blessed Sinner beneath the Cross: Francesco di Vannuccio's *Croce Dipinta*, Mary Magdalene, and the Black Death in Late-Trecento Siena*

Dissertation Chair: E. Ross

**Riley Alina Ravary**

Major: *Anthropology*

Dissertation: *The Forest for the Trees: State Logics and Environmental Protection in Uganda*

Dissertation Chair: B. H. Chalfin

Dissertation Co-chair: C. M. Tucker

**Mandi J. Reed**

Major: *English*

Dissertation: *Romantic Mythmaking: The Sympathetic Soulmate from Romanticism to *Twilight* and Beyond*

Dissertation Chair: S. A. Smith

**Jared Isaiah Richardson**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: *A Massively Parallel Sequencing Methods to Study the Family of RNA Binding Proteins, Muscleblind-Like, and Their Role in Regulating RNA Processing in Myotonic Dystrophy*

Dissertation Chair: J. A. Berglund

**Biswas Rijal**

Major: *Materials Science and Engineering*

Dissertation: *Charged Point Defects and Defect Complexes in Phosphorene and Structural Prediction of Tau-11, A Density Functional Theory Approach*

Dissertation Chair: R. Hennig

**Joseph W. Rivera**

Major: *Criminology, Law, and Society*

Dissertation: *On Law and Wildlife: American Law in a Global Legal Scheme*

Dissertation Chair: L. M. Lanza-Kaduce

**John Taylor Roman**

Major: *Health and Human Performance*

Dissertation: Emotion and Joint Action: Valence Associations Reflect Partner Performance Quality

Dissertation Chair: C. M. Janelle

**Pratik Roy**

Major: *Chemistry*

Dissertation: Lanthanide Based Hybrid Poly Ion Complexes as Poly-CEST MRI Contrast Agents

Dissertation Chair: D. R. Talham

**Jared M. Rozowsky**

Major: *Biomedical Engineering*

Dissertation: Translational and Computational Analysis of Dialysis Fistula Maturation Failure

Dissertation Chair: S. A. Berceci

**Bhagatveer Singh Sangha**

Major: *Agricultural and Biological Engineering*

Dissertation: Evaluating Food Hubs as Alternative Food Systems in North Central Florida

Dissertation Chair: J. A. Watson

Dissertation Co-chair: G. A. Kiker

**Sandy Elizabeth Saunders**

Major: *Medical Sciences—Pharmacology and Therapeutics*

Dissertation: The Role of Dorsolateral Pontine Respiratory Neurons in Fentanyl Overdose

Dissertation Chair: E. Levitt

**Kelton Schleyer**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Developing an Imaging Toolkit for Heparanase Enzymatic Activity

Dissertation Chair: L. Cui

**Hamed Shafiei Rezvani Nejad**

Major: *Curriculum and Instruction*

Dissertation: Elementary Teachers' Understanding of Differentiated Instructional Practices for EL Students in Mainstream Inclusive Classrooms

Dissertation Chair: M. R. Coady

**Kun Shi**

Major: *Physics*

Dissertation: Search for  $Z'$  Gauge Boson Using  $Z$  to 4 Muons Decay Mode in Proton-Proton Collision by Full Run II Data from Compact Muon Solenoid Detector in Large Hadron Collider

Dissertation Chair: P. R. Avery

Dissertation Co-chair: D. E. Acosta

**Binita Shrestha**

Major: *Entomology and Nematology*

Dissertation: Trophic Interaction between Asian Citrus Psyllid and Its Natural Enemies under Conditions of Endemic Huanglongbing

Dissertation Chair: L. L. Stelinski

**Surabhi Singh**

Major: *Mechanical Engineering*

Dissertation: Uncovering the Spatio-Temporal Dynamics in Cavity Shear Layer and Supersonic Cavity Flow Control

Dissertation Chair: L. S. Ukeiley

**Khushboo Sinha**

Major: *Chemistry*

Dissertation: Solvent Mediated Thermodynamic Phase Stability in Two-Dimensional Family of Layered Compounds

Dissertation Chair: D. R. Talham

**Devon Jamal Skelton**

Major: *Civil Engineering*

Dissertation: Shear Behavior of I-Girders with Post-Tensioning Tendons Containing Flexible Filler

Dissertation Chair: H. R. Hamilton

**Brittany R. Smith**

Major: *Chemistry*

Dissertation: Synthesis of Monophosphoryl Lipid A Conjugates as Novel Carbohydrate-Based Vaccines and Vaccine Adjuvants

Dissertation Chair: Z. Guo

**Joshua T. Smith**

Major: *Mathematics*

Dissertation: Modeling the Impact of Broadly Neutralizing Antibody Therapy on Chronic HIV Infection

Dissertation Chair: L. Rong

**Bochuan Song**

Major: *Chemical Engineering*

Dissertation: Design of Well-Defined Heterogeneous Catalysts Using Atomic Layer Deposition

Dissertation Chair: H. E. Hagelin Weaver

**Jihee Song**

Major: *Youth Development and Family Sciences*

Dissertation: Associations between Adverse Childhood Experiences and Family Resilience and Oral Health Outcomes

Dissertation Chair: K. Fogarty

**Nikita Nandish Soni**

Major: *Human-Centered Computing*

Dissertation: Designing Interactions for Multi-Touch Spherical Displays to Support Collaborative Learning in Museums

Dissertation Chair: L. Anthony

**Sujeily Soto Medina**

Major: *Materials Science and Engineering*

Dissertation: Design and Development of Lightweight High-Temperature Alloys Based on the Al-Fe-Si System

Dissertation Chair: M. V. Manuel

**Bethsymarie Soto Morales**

Major: *Biomedical Engineering*

Dissertation: Supramolecular Biomaterials Fabricated from Co-Assembling Peptides for Local Delivery of Enzymes

Dissertation Chair: G. Hudalla

**Patrick John Squires**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Impact of Oral Oncolytic Parity Legislation on Treatment Patterns and Patient Out-of-Pocket Costs in Patients with Multiple Myeloma

Dissertation Chair: J. D. Brown

**Benjamin D. Stelling**

Major: *Interdisciplinary Ecology*

Dissertation: Phytoplankton Composition and Abundance along Depth and Seasonal Gradients in the South Atlantic Bight Off the Coast of Cape Canaveral, FL

Dissertation Chair: E. J. Philips

**Saima Subhani**

Major: *Pharmaceutical Sciences—Pharmaceutics*

Dissertation: Leveraging the Application of Physiologically Based Modelling to Aid Clinical Drug Development

Dissertation Chair: V. Vozmediano Esteban

Dissertation Co-chair: S. Schmidt

**Ruwen Tan**

Major: *Chemical Engineering*

Dissertation: Engineering Surfaces with Tunable Nanostructure and Stiffness to Mitigate Bacterial Adhesion

Dissertation Chair: Y. Jang

**Mai Tanaka-Wakefield**

Major: *Medical Sciences—Cancer Biology*

Dissertation: The Role of Axl Signaling Pathway in Cancer Metastasis

Dissertation Chair: D. W. Siemann

**Juan Gabriel Tanquero-Zayas**

Major: *Materials Science and Engineering*

Dissertation: Inhibition of Calcium Sulfate Hemihydrate Crystallization under Simulated Conditions of Phosphoric Acid Evaporation

Dissertation Chair: B. M. Moudgil

**Madison Nicole Temples**

Major: *Biomedical Engineering*

Dissertation: Engineered Three-Dimensional Tumor Extracellular Matrices and Tumor Models to Investigate Natural Killer Cell Migration and Interactions with Cancer Cells

Dissertation Chair: B. Sharma

**Thuy Nhu Thai**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Utilization and Safety of Prescription Antiemetic Drugs during Pregnancy

Dissertation Chair: A. G. Winterstein

**James B. Thompson<sup>†</sup>**

Major: *History*

Dissertation: Making Coffee: American Consumption and Empire Before the Cold War

Dissertation Chair: R. J. McMahon

**Tia A. Tyler**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Germination Ecology of *Uniola paniculata*

Dissertation Chair: H. E. Pérez

**Brittany Sierra Ulm**

Major: *Medical Sciences—Neuroscience*

Dissertation: Investigating Tau Dysregulation in Neurodegenerative Disease

Dissertation Chair: J. M. Lewis

Dissertation Co-chair: H. Khoshbouei

**Huseyin Uysal**

Major: *Curriculum and Instruction*

Dissertation: Amplifying the Voices of Long-Term English Learners: Humanizing Insights into Reclassification through the Lenses of Test-Takers

Dissertation Chair: E. J. De Jong

**Melany del Carmen Vergara Suarez**

Major: *Romance Languages—Spanish*

Dissertation: Minors in Suspense: Types of Childhood in Latin American Literature and Film in the 21<sup>st</sup> Century

Dissertation Chair: M. E. Ginway

**Austin Clay Vining**

Major: *Mass Communication*

Dissertation: Legislative Rhetoric versus Prosecutorial Realities: Comparing the Framing of Florida's Teen Sexting Law with Post-Adoption Realities of Enforcement

Dissertation Chair: C. Calvert

**Madeline Mee Kyung Vroom**

Major: *Microbiology and Cell Science*

Dissertation: Modeled Microgravity Alters Bacteria-Induced Apoptosis in the Squid-Vibrio Symbiosis

Dissertation Chair: J. S. Foster

### **Ching-Yu Wang**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Developing Real-World Clinical and Economic Evidence for Biosimilar Filgrastim and Pegfilgrastim

Dissertation Chair: J. D. Brown

### **Yi Wei**

Major: *Materials Science and Engineering*

Dissertation: Chemical Modifications and Topography Modeling of Silicone Rubber to Control Bioadhesion

Dissertation Chair: A. B. Brennan

Dissertation Co-chair: M. Tonks

### **Mihoko Maeda Wheeler**

Major: *Linguistics*

Dissertation: Effectiveness of Implicit Categorical Learning in Japanese Pitch Training of Second-Language Japanese Learners

Dissertation Chair: R. Wayland

### **Akemi Thakshila Wijayabahu**

Major: *Epidemiology*

Dissertation: Associations between Lifestyle Factors, Micronutrients, and Biomarkers of Biological Aging

Dissertation Chair: R. L. Cook

Dissertation Co-chair: V. Mai

### **William Wildberger**

Major: *Curriculum and Instruction*

Dissertation: Exploring College Students' Experiences with Mindfulness Technologies

Dissertation Chair: P. Antonenko

Dissertation Co-chair: K. M. Dawson

### **Kathryn Michelle Williams**

Major: *Counseling and Counselor Education*

Dissertation: Experiences of Supervisors in the Field

Dissertation Chair: J. Swank

### **Abigail Teresa Wilson**

Major: *Rehabilitation Science*

Dissertation: A Mechanistic Based Approach to Pain Management

Dissertation Chair: J. E. Bialosky

### **Keon Dewayne Wimberly**

Major: *Genetics and Genomics*

Dissertation: An Extracellular Matrix Damage Sensor Signals through Membrane-Associated Kinase DRL-1 to Mediate Cytoprotective Responses in *Caenorhabditis elegans*

Dissertation Chair: K. P. Choe

### **Richard M. Witas**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Increased Inactivation of Receptor Tyrosine Kinase Mer Results in Impaired Efferocytosis and Aberrant Inflammatory Response in a Murine Model of Sjögren's Syndrome

Dissertation Chair: C. Nguyen

### **Han Byul Woo**

Major: *Geology*

Dissertation: The Use of Seismic Interferometry to Identify Crustal Velocity Structure and Other Applications in Environmental Seismology

Dissertation Chair: P. N. Adams

### **Tong Wu**

Major: *Electrical and Computer Engineering*

Dissertation: An Effective Device and Circuit Simulation Framework Aided by Machine Learning

Dissertation Chair: J. Guo

**Minghan Xian**

Major: *Chemical Engineering*

Dissertation: Study on Transistor-Based Biological Sensor for Human Biomarker Detection and Gallium Oxide-Based Power Devices

Dissertation Chair: F. Ren

**Jingchen Xu**

Major: *Communication Sciences and Disorders*

Dissertation: Effects of Complexity and Modality on Comprehension of Relative Clause Sentences

Dissertation Chair: L. J. Altmann

**Juntao Yao**

Major: *Electrical and Computer Engineering*

Dissertation: Modeling and Reduction of Radiated Electromagnetic Interference in Power Converters

Dissertation Chair: S. Wang

**Sundara Ramakarthik Yarasuri**

Major: *Civil Engineering*

Dissertation: Enhancement and Validation of a Residential Infrastructure Hurricane Wind Vulnerability Model

Dissertation Chair: K. R. Gurley

**Kimberly Michelle Ying**

Major: *Human-Centered Computing*

Dissertation: Developing Dialogue-Aware Adaptive Support for Collaborative Coding through Women-Centered Design

Dissertation Chair: K. Boyer

**Suhyun Yoon**

Major: *Chemistry*

Dissertation: Analysis of Proton Transfer Mechanisms in Ribonucleases and Ribozymes: Expansion and Application of a General Population-Weighted Gross-Butler (GPW-GB) Equation

Dissertation Chair: M. Harris

**Guohao Yu**

Major: *Electrical and Computer Engineering*

Dissertation: Weakly Supervised Image Segmentation with Multiple Instance Learning Neural Network

Dissertation Chair: A. Zare

**Yue Yu**

Major: *Physics*

Dissertation: Multi-Phonon Processes in Solids

Dissertation Chair: X. Zhang

**Sarah Marie Zaleski**

Major: *Anthropology*

Dissertation: Morphological Variation in the Greater Sciatic Notch: An Ontogenetic and Biomechanical Approach

Dissertation Chair: V. B. DeLeon

**Bisheng Zhang**

Major: *Materials Science and Engineering*

Dissertation: Examples of Citric Acid-Based Polymer Delivery of Therapeutic Agents

Dissertation Chair: J. Allen

**Congmu Zhang**

Major: *Agricultural and Biological Engineering*

Dissertation: Modeling of Grapefruit Quality as Affected by Factors from the Entire Production Chain

Dissertation Chair: G. Hoogenboom

Dissertation Co-chair: M. A. Ritenour

**Tianshu Zhang**

Major: *Aerospace Engineering*

Dissertation: Prediction of Tornado Infrasound within the Turbulent Atmosphere Using Theory, Numerical Simulation, Wind Tunnel Measurements, and Field-Tests

Dissertation Chair: S. A. Miller

### **Xuezi Zhang<sup>†</sup>**

Major: *Curriculum and Instruction*

Dissertation: Chinese Graduate Students' English Academic Writing Experiences in a Teacher Education Program at an American University

Dissertation Chair: D. Fu

### **Dong Zheng**

Major: *Electrical and Computer Engineering*

Dissertation: An Integrated Dual Vertical MEMS Mirror and Its Application to Forward-Scan Endoscopic Optical Coherence Tomography

Dissertation Chair: Y. K. Yoon

### **Yi Zheng**

Major: *Epidemiology*

Dissertation: PM<sub>2.5</sub> Chemical Compositions and Gestational Diabetes Mellitus

Dissertation Chair: H. Hu

### **Hui Zhou**

Major: *Mechanical Engineering*

Dissertation: Label-Free Quantification of Alignment in Native and Engineered Soft Tissue Constructs by Polarized Raman Spectroscopy

Dissertation Chair: C. Simmons

### **Lang Zhou**

Major: *Environmental Engineering Sciences*

Dissertation: Assessing the Potential of Using Drinking Water Treatment Residuals (DWTRs) as *In-situ* Capping Materials for Metal Contaminated Sediments

Dissertation Chair: J. J. Bonzongo

### **Yanlin Zhou**

Major: *Electrical and Computer Engineering*

Dissertation: Modern Autonomous Driving

Dissertation Chair: D. Wu

### **Roney Zimpel**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Effect of Dietary Cation-Anion Difference on Dry Matter Intake and Impacts on Metabolism and Performance of Nulliparous Cows and in Their Offspring, and Effect of Source and Dose of Vitamin D in Growing Calves

Dissertation Chair: J. E. Santos

## **DOCTOR OF EDUCATION**

---

### **Kimberly J. Barcelona**

Major: *Educational Leadership*

Dissertation: Student Achievement Trends over Time in STEM and Non-STEM School Districts across the State of Connecticut

Dissertation Chair: F. C. Curran

### **Blake Mickle Beckett**

Major: *Curriculum and Instruction*

Dissertation: The Intersection of Universal Design for Learning and Culturally Sustaining Pedagogy: A Practitioner Research Study of a Sixth-Grade Language Arts Class during the COVID-19 Pandemic

Dissertation Chair: N. L. Dana

### **Carla-Ann R. Brown**

Major: *Curriculum and Instruction*

Dissertation: Students Have the Right to Learn! Developing and Teaching a Unit on Systems of Oppression within a Sixth-Grade World Cultures Course through Practitioner Research

Dissertation Chair: N. L. Dana

<sup>†</sup> Posthumous

**Thomas D. Cox**

Major: *Curriculum and Instruction*

Dissertation: Transforming the Teaching of High School Genetics: A Practitioner Research Study

Dissertation Chair: A. J. Adams

**Abigail De Groot**

Major: *Curriculum and Instruction*

Dissertation: Integrating an Inquiry Cycle Focused on Culturally Sustaining Pedagogy into Teacher Candidate Internships

Dissertation Chair: N. L. Dana

**Stephanie Mercurio Doran**

Major: *Curriculum and Instruction*

Dissertation: Culturally Responsive Mathematics Professional Learning: Exploring the Process

Dissertation Chair: G. R. Jeter

**Angelia Cheryl Dyer**

Major: *Curriculum and Instruction*

Dissertation: Supporting Teachers' Facilitation of IEP Meetings: A Practitioner Inquiry

Dissertation Chair: A. J. Adams

**Misael Gonzalez**

Major: *Curriculum and Instruction*

Dissertation: Using a Teacher Study Group to Increase the Use of Culturally Sustaining Pedagogy in a High Cuban-Student-Population High School

Dissertation Chair: V. A. Vescio

**Ashley Danelle Hart**

Major: *Curriculum and Instruction*

Dissertation: Supporting Authentic Teacher Collaboration by Breaking down Barriers

Dissertation Chair: V. A. Vescio

**Trevor James Hershberger**

Major: *Curriculum and Instruction*

Dissertation: "A Better Learning Environment": Student Perceptions of Standards-Based Grading in a High School English Class

Dissertation Chair: A. J. Adams

**Allison Kathleen Morgan**

Major: *Curriculum and Instruction*

Dissertation: Middle School Multiliteracies: Understanding the Multiliteracy Events, Practices, and Skills of Diverse 7th-Grade Students

Dissertation Chair: G. R. Jeter

**Michael J. Powers**

Major: *Curriculum and Instruction*

Dissertation: Exploring Critical Factors for Increasing Racial Diversity In Doctor of Physical Therapy Education from BIPOC Student Perspective: A Participatory Action Research Study

Dissertation Chair: G. R. Jeter

**Debbie L. Presley-O'Brien**

Major: *Curriculum and Instruction*

Dissertation: Room and Zoom: Implementing the HyFlex Model in a K-5 Setting during a Pandemic

Dissertation Chair: K. M. Dawson

**Krista Erin Vaught**

Major: *Curriculum and Instruction*

Dissertation: Isolation during the "Dark Days of Dissertation Writing": Does Social Media Facilitate Connectedness for Doctoral Candidates?

Dissertation Chair: S. Kumar

**Rasheeda T'Ara West**

Major: *Curriculum and Instruction*

Dissertation: Teaching for Democracy, Critical Literacy, and Social Justice: One Teacher's Beliefs and Practices

Dissertation Chair: E. A. Washington



## DOCTOR OF BUSINESS ADMINISTRATION

Raymond B. Johnson

Stoyanka Petrova  
Jacob Emery Regier

Roxanne Y. Valies

## DOCTOR OF PLANT MEDICINE

Chastity L. Perry

# PROFESSIONAL DEGREES

---

## THE FREDRIC G. LEVIN COLLEGE OF LAW

---

### Dean Laura A. Rosenbury

### DOCTOR OF JURIDICAL SCIENCES IN TAXATION

Angela Carolina Vaca Bohorquez

### JURIS DOCTOR

Alexander Kamran Beg  
Joseph N. Bell  
Joel Brown  
James Whitcomb Carpenter  
Chelsea Sue Chitty  
Daniel Frndjibachian  
Amber Lee  
Amanda Lee Matyk

Mettlyn Scottia McCaskill  
Meghan Ashley Medacier  
Alexa Galit Menashe  
Joshuah Charles Miller  
John Dawson Mirkin  
James William Palanica  
Jimmy Pham  
Justin Robinson

Eduardo Rodriguez  
Grant William Silvester  
Chelsea Nikole Slater  
Elizabeth A. Tubbs  
Austin Clay Vining  
Dayne A. Wade  
Amber R. Walsh  
Nicholas Clay Wigelsworth

### MASTER OF LAWS IN INTERNATIONAL TAXATION

Lam-Nathalie Nguyen

Fernando Tello

### MASTER OF LAWS IN TAXATION

Kenneth L. Gillespie  
Viktoria Vozarova LaRocco  
Amber Lee  
Amanda Lee Matyk  
Joshuah Charles Miller

John Dawson Mirkin  
James William Palanica  
Justin Robinson  
Eduardo Rodriguez

Joey Rodriguez  
Grant William Silvester  
Dayne A. Wade  
Amber R. Walsh  
Nicholas Clay Wigelsworth

### MASTER OF LAWS IN U.S. LAW

Tao Wang

## THE COLLEGE OF NURSING

---

### Dean Anna M. McDaniel

### DOCTOR OF NURSING PRACTICE

Amanda Margaret Smith

## THE COLLEGE OF PHARMACY

---

### Dean Julie A. Johnson

### DOCTOR OF PHARMACY

Renee Delana Caneus \*

Kristen T. Martinez

\*Cum Laude

\*\*Magna Cum Laude

\*\*\*Summa Cum Laude

(Cum Laude, Magna Cum Laude and Summa Cum Laude are tentative and subject to final grades.)

# THE COLLEGE OF PUBLIC HEALTH AND HEALTH PROFESSIONS

---

**Dean Michael G. Perri**

## DOCTOR OF OCCUPATIONAL THERAPY

Tori-Ann Bridget Alexander  
Danny Alfonso  
Jianne Migelle Padua Apostol  
Ludine Augustin  
Andrea N. Auld  
Jordan Elizabeth Bennett  
Melanie Kristin Binasco  
Mary Amelia Bradberry  
Jordan Amber Bradford  
Hannah Marie Burch  
Carolina Caridad Castillo  
Jamie Lynn Chavez  
Ke'Andra Sherie Clayton  
Kaylin Rae Cullinane

Laura Marie Dolmovich  
Kayla Grace Enea  
Meaghan Charlotte Fitzpatrick  
Natalie Rae Ford  
Hayley M. Goodman  
Allison Lynn Haines  
Regan Ann Hamrick  
Arien Danielle Hart  
Tiffany Henderson  
Keegan Jo Heye  
Danielle Marie Kleinberg  
Lindsey Amber Kulchin  
Janine Marie Legaspi

Emily Guan-Ya Liou  
Megan Emily Manulak  
Taylor Norton Moore  
Courtney Elizabeth Newell  
Kaylee Noon  
Valentina Osorio  
Marianne Sioned Philipps  
Christopher George Quintela  
Laura Sellew  
Melissa Simone Shinder  
Mackenzi Rae Slamka  
Pooja Reddy Surkanti  
Shelby Lauren Waldron  
Samantha Marie Witte





## **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. 5 in U.S. News & World Report "Top Public Universities" (2021); 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 5,700 faculty members with distinguished records in teaching, research and service, including 37 Eminent Scholar chairs and 45 faculty elections to the National Academy of Sciences, Engineering, the Institute 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 4.5 GPA, average SAT score of 1392, and an average ACT score of 32.
- The freshman retention rate of 97% is among the highest in the country.
- UF ranks 4th and 9th respectively in Latino and African American graduates who go on to receive doctorates in STEM fields. It is also ranked 1st in the nation in the number of African American female faculty in engineering.
- Sixty-seven percent of UF full-time freshmen graduate in four years, and 88% of UF freshmen graduate within six years.



## 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.

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 2022.

## 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 Occupational Therapy is slate blue; 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.

---



# UF

## 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