

# Commencement

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

## COMMENCEMENT APP

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

## SOCIAL MEDIA

Whether you are a #UFGrad or you are here to celebrate a #UFGrad, we invite you to join the commencement conversation on social media. Select tweets will be featured on the video boards prior to and after the ceremony.

## PHOTOGRAPHS

The university requests that all commencement guests remain in their seats while taking photographs; no guests are permitted in the graduates' seating area. Photographs of the graduates as they cross the stage are available through companies that have contracts with the university. Color photographs are available from University Photography, PO Box 2454, Tuscaloosa, AL 35403-2454, 205-391-9500.

## COMMENCEMENT PROGRAM

Additional copies of this commencement program are available while supplies last at the UF Bookstore for a \$1 donation to the Machen Florida Opportunity Scholars program, which helps fund a UF education for low-income students who are first in their family to attend college. The commencement program can be ordered online with an additional charge for shipping and handling.

## THIS IS NOT AN OFFICIAL GRADUATION LIST

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

Commencement  
**SPRING 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 Fuchses have three sons, a daughter, and three grandchildren.

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



# University of Florida Leadership

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## State Board of Education

**Richard Corcoran**

*Commissioner of Education*

**Marva Johnson**

*Chair*

**Andy Tuck**

*Vice Chair*

**Ben Gibson**

**Tom Grady**

**Michael Olenick**

**Joe York**

## Florida Board of Governors

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*Chancellor*

**Richard Corcoran**

*Commissioner of Education*

**Ned C. Lautenbach**

*Chair*

**Sydney Kitson**

*Vice Chair*

**Tim Cerio**

**Shawn Felton**

**Patricia Frost**

**H. Wayne Huizenga, Jr.**

**Darlene L. Jordan**

**Alan M. Levine**

**Edward A. Morton**

**Jay S. Patel**

**Frederic V. Salerno**

**Norman D. Tripp**

**Fernando J. Valverde**

**Jalisa S. White**

**Zach P. Zachariah**

## University of Florida Board of Trustees

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*Chair*

**Thomas G. Kuntz**

*Vice Chair*

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**Leonard H. Johnson**

**Daniel T. O’Keefe**

**Rahul Patel**

**Marsha D. Powers**

**Jason J. Rosenberg**

**Robert G. Stern**

**Katherine Vogel Anderson**

**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.**

*Interim 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*

**David Parrott, Ed.D.**

*Vice President - Student Affairs*

**Nancy Paton, M.S.**

*Vice President for Strategic Communications and Marketing*

**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*

**James W. Lloyd, D.V.M., Ph.D.**

*College of Veterinary Medicine*

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

*University Libraries*

**Heather White, Ph.D.**

*Dean of Students*

2019 SPRING

COMMENCEMENT

## COMMENCEMENT AGENDA – FRIDAY, MAY 3, 2:00 p.m.

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| Presiding                                    | W. Kent Fuchs<br><i>President</i>  |
| Processional                                 | Gainesville Brass Quintet  |
| National Anthem                              | Anthony Offerle<br>Gainesville Brass Quintet   |
| Welcome                                      | W. Kent Fuchs  |
| Introductions                                | Joseph Glover<br><i>Provost and Senior Vice President<br/>for Academic Affairs</i>                                       |
| Awarding of Honorary Degrees<br>Presented by | Joseph Glover<br>W. Kent Fuchs   |
| Doctor of Science presented to               | William H. Foege<br><i>Seattle, WA</i>   |
| Doctor of Education presented to             | James Patterson<br><i>Palm Beach, FL</i>   |
| Doctor of Laws presented to                  | George H. Starke, Jr.<br><i>Clermont, FL</i>   |
| Commencement Address                         | Scott Powers<br><i>University Athletic Association<br/>Endowed Professor,<br/>Applied Physiology and<br/>Kinesiology</i> |
| Presenting Candidates for Degrees            | Joseph Glover  |
| Conferring of Degrees                        | Anita Zucker<br><i>Member, UF Board of Trustees</i>  |
| Closing Remarks                              | W. Kent Fuchs  |
| Alma Mater                                   | Anthony Offerle<br>Gainesville Brass Quintet   |
| Recessional and Postlude                     | Gainesville Brass Quintet  |

# Commencement Speaker

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## Scott Powers

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

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

Dr. Powers is also an accomplished teacher who has won numerous teaching awards and has been selected for membership into the Academy of Distinguished Teaching Scholars at the University of Florida. His interest in pedagogy is also



illustrated by his authorship of two college textbooks on exercise physiology. Notably, Dr. Powers has also been recognized by the University of Florida as the Teacher/Scholar of the Year in 2017.



# Honorary Degree - Doctor of Science

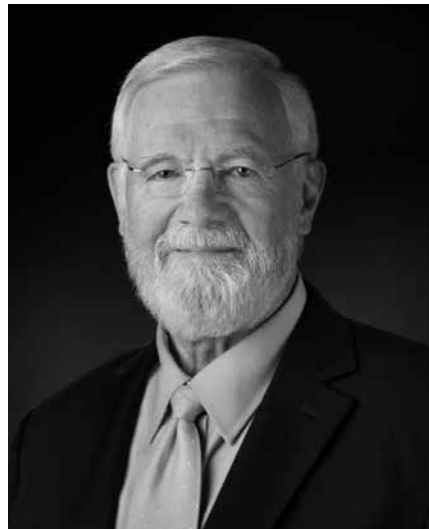
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## William H. Foege

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

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

Dr. Foege's efforts at the CDC and the Task Force were central to increasing global rates of immunization among children in developing



countries to historic highs in the 1980s. Through teaching, lecturing, and advising on prioritization and leadership in Global Health, his engagement at the Gates Foundation and Emory University has been critical to reshaping the future landscape of global health in the 21st century.

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





# Honorary Degree – Doctor of Education

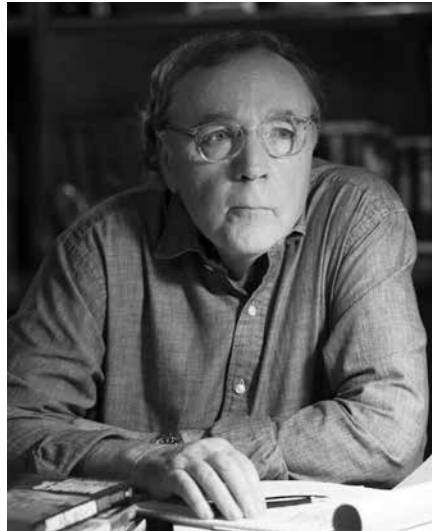
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## James Patterson

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

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

At the University of Florida College of Education, Mr. Patterson has invested in the success of students pursuing careers as elementary or secondary school teachers by creating 16 scholarships in 2015, which have supported



28 students to date. Further, he has launched the James Patterson Literacy Challenge, an ambitious mission created in partnership with the UF Literacy Initiative to tackle the literacy crisis affecting Florida and double the number of schoolchildren proficient in reading. The James Patterson Literacy Challenge is currently serving five under-performing schools in two Florida school districts, Alachua County and Broward County, providing school leaders and educators empowering professional development opportunities and tools to build their capacity to support the diverse and dynamic literacy needs of their students.



# Honorary Degree - Doctor of Laws

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## **George H. Starke, Jr.**

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

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

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

Mr. Starke was born into a family of pioneers. His father, Dr. George Starke, was the first African-American to gain membership in the Florida Medical Association and to open his



own practice in Sanford, Fla. His mother, Mattie Starke, was a beloved high school teacher and librarian. Mr. Starke's cousin, Daphne Duval Williams, also made history as UF's first female African-American student when she enrolled in the College of Education in January 1959.

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

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



# GRADUATE SCHOOL

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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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### **Firas Mohammed Abed**

Major: *Veterinary Medical Sciences*  
Dissertation: Genetics of Canine Pheochromocytoma  
Dissertation Chair: M. J. Dark

### **Siddhartha Abhinav**

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

### **Alejandra Abril Guevara**

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

### **Brittany M. Adams**

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

### **Christiana Aikenosi Akande**

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

### **Mimonah Qasim Al Qathrady**

Major: *Computer Engineering*  
Dissertation: Data-Driven Indoor Mobility Analysis, Modeling, and Encounter Classification for IoT Applications  
Dissertation Chair: A. A. Helmy

### **Md Mahbub Alam**

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

### **Meshari S. Alenezi Sr.**

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

### **Wael Abdullah Alghamdi**

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

### **Amanda Davina Ali**

Major: *Agricultural Education and Communication*  
Dissertation: Personal Resilience of Extension Agents and Communication Behaviors of County Extension Directors Post-Disaster  
Dissertation Chair: T. G. Roberts II  
Dissertation Co-chair: A. M. Harder

**Babak Alipour**

Major: *Computer Engineering*

Dissertation: Integrated Network Traffic-Mobility Analysis and Modeling Using Big Data

Dissertation Chair: A. A. Helmy

**Latoya L. Allen**

Major: *Medical Sciences—Neuroscience*

Dissertation: Neurochemical and Neuroanatomical Plasticity in Spinal Respiratory Motor Neurons following Cervical Spinal Cord Injury and Intermittent Hypoxia

Dissertation Chair: G. S. Mitchell

**Philip C. Allen**

Major: *Romance Languages—Spanish*

Dissertation: The Shadow of the Phoenix: Lope de Vega's Life and Works on Spanish Screens (1947-2017)

Dissertation Chair: L. Álvarez-Castro

**Mohammed Almarshoud**

Major: *Civil Engineering*

Dissertation: Enhanced Analysis Tools and Measurement Methods to Evaluate Concrete Transport Properties

Dissertation Chair: K. A. Riding

Dissertation Co-chair: M. Tia

**Phillip Christopher Arceneaux**

Major: *Mass Communication*

Dissertation: Information Intervention and the Need for Social Cybersecurity: The Power Struggle between Digital Diplomacy and Computational Propaganda

Dissertation Chair: D. H. Ostroff

**Brandon Dwayne Armstrong**

Major: *Political Science*

Dissertation: An Exploration of Crime and Politics

Dissertation Chair: L. C. Dodd

Dissertation Co-chair: B. A. Rosenson

**Lesley-Gail Megan Atkinson**

Major: *Anthropology*

Dissertation: Buréns, Cooking Pots and Water Jars: A Comparative Analysis of Jamaican Prehistory

Dissertation Chair: W. F. Keegan

**Alisheikh Adem Atta**

Major: *Soil and Water Sciences*

Minor: *Horticultural Sciences*

Dissertation: Citrus Nutrient Management on Huanglongbing (HLB, or Citrus Greening) Affected Citrus Groves on Florida Sandy Soils

Dissertation Chair: K. T. Morgan

**Méric Langston Augat**

Major: *Mathematics*

Dissertation: The Free Grothendieck Theorem

Dissertation Chair: S. A. McCullough

Dissertation Co-chair: J. E. Pascoe

**Hassan Azad**

Major: *Design, Construction and Planning*

Dissertation: Spectral and Spatial Assessments of Diffuse and Scattered Reflections in Rooms and Their Effects on Reverberation Time, Clarity, and Sound Pressure Level

Dissertation Chair: G. W. Siebein

**Joany Babilonia**

Major: *Microbiology and Cell Science*

Dissertation: Comparative Metagenomics and Metabolomics for Characterizing Stromatolite Ecological Community Function

Dissertation Chair: J. S. Foster

**Sangjune Bae**

Major: *Mechanical Engineering*

Dissertation: Uncertainty Quantification of System Reliability and Its Reduction, Application to Optimization

Dissertation Chair: N. H. Kim

**Laura S. Bailey**

Major: *Chemistry*

Dissertation: Characterization of Phosphopeptides by Mass Spectrometry and Infrared Photodissociation

Dissertation Chair: N. C. Polfer

Dissertation Co-chair: K. B. Basso

**Nikolas Shane Bajorek**

Major: *English*

Dissertation: Two Turntables and a Microphone: (Re)Mixing the Post-Soul Literary Aesthetic on the Ones and Twos

Dissertation Chair: M. A. Reid

**Myrian Sá Leitão Barboza**

Major: *Anthropology*

Dissertation: "Tükuna Cosmological Cartography": The Gendered Meaning and Use of Territories by Katukina Indigenous People from Biá River in Brazilian Amazonia

Dissertation Chair: A. Oyuela-Caycedo

Dissertation Co-chair: M. C. Schmink

**Matthew Jeffrey Bauer**

Major: *Materials Science and Engineering*

Dissertation: Novel Low Power Microelectromechanical Devices Utilizing Janus Magnetolectric Nanowires: Fabrication and Characterization Thereof

Dissertation Chair: J. Andrew

**Salil Ashish Bavdekar**

Major: *Mechanical Engineering*

Dissertation: A Unified Analytical Model for the Dynamic Response of Structural Ceramics to Impact and Penetration

Dissertation Chair: G. Subhash

**Kelly A. Beck**

Major: *English*

Dissertation: Dangerous Spaces: Investigating Multimodal Performances in British Detective Fiction

Dissertation Chair: P. E. Wegner

**Rachel E. Black**

Major: *Anthropology*

Dissertation: The Price of Freedom: Negotiating Social Status through Death in Jim Crow-Era Savannah, Georgia

Dissertation Chair: J. M. Davidson

Dissertation Co-chair: J. Krigbaum

**Margarita Blanco**

Major: *Design, Construction and Planning*

Dissertation: Suarez and Vizcaya: An Italian Garden in a Sub-Tropical Paradise

Dissertation Chair: K. R. Thompson

**Kerri Lisa Blumenthal**

Major: *Religion*

Dissertation: Rejecting the Eagle, Embracing the Condor: Spirituality and Lifestyle Migration among North Americans in Cuzco, Peru

Dissertation Chair: A. Peterson

**Hypatia Amanda Bolívar**

Major: *Psychology*

Dissertation: Human Operant Studies of Resurgence: Effects of Context and Response Cost

Dissertation Chair: J. Dallery

**Caleb J. Bostwick**

Major: *Medical Sciences—Neuroscience*

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

Dissertation Chair: L. L. Moroz

**Jelena Brezjanovic-Shogren**

Major: *Anthropology*

Dissertation: Return Migration: The Intra-Cultural Variation of Attitudes of Return Migrants and the Process of Reintegration to Serbia

Dissertation Chair: J. R. Stepp

**Terri M. Brinegar**

Major: *Music*

Dissertation: The Recorded Sermons of Reverend Andrew William (A. W.) Nix: Black Voices and the Creation of Modernized Tradition

Dissertation Chair: L. N. Crook

**Emily E. Brown**

Major: *Medical Sciences—Genetics*

Dissertation: Mitochondrial Dysfunction in the Retina: Implications for Age-Related Macular Degeneration

Dissertation Chair: J. Ash

Dissertation Co-chair: A. S. Lewin

**Benjamin Ryan Burgen**

Major: *Anthropology*

Dissertation: Old Dreams, New Money, and Unfinished Houses: Economic Life in the Senegal River Valley Today

Dissertation Chair: A. Kane

**Earlesha T. Butler**

Major: *Mass Communication*

Dissertation: The Contemporary Black Press: An Exploratory Qualitative Study of Journalists' Perceived Shared Professional Values, Newsroom Community Role, and Self-Empowerment

Dissertation Chair: B. E. Tripp

**Jinzheng Cai**

Major: *Biomedical Engineering*

Dissertation: Radiology Medical Image Analysis with Deep Convolutional Neural Networks

Dissertation Chair: L. Yang

**Huzeyfe Cakmakci**

Major: *Counseling and Counselor Education*

Dissertation: Bullying Victimization as Mediator of the Relationship between Teachers' Unfair Treatment, Parents' Support and Sense of Belonging at School Using Structural Equation Modeling

Dissertation Chair: S. L. Smith

**Anquetta Vonceil Calhoun**

Major: *Counseling and Counselor Education*

Dissertation: Exploring (Mis)Recognition in the Lived Experiences of Black Girls at School: A Reflective Lifeworlds Research Study

Dissertation Chair: S. L. Smith

**Manu Chandran**

Major: *Electrical and Computer Engineering*

Dissertation: Application of Machine Learning Techniques in Point Cloud Generation and Point Cloud Object Classification

Dissertation Chair: D. Wu

**Kelly Suzanne Chapman**

Major: *Anthropology*

Dissertation: Women and Water: Household Water Beliefs and Behaviors among Women in Gressier and Léogâne, Haiti

Dissertation Chair: P. F. Collings

**Jess-Karan Singh Dhillon**

Major: *Medical Sciences—Neuroscience*

Dissertation: Investigating the Strain Properties of Alpha-Synuclein: Implications for Pathogenesis

Dissertation Chair: B. I. Giasson

**Milton Hugo Díaz Toribio**

Major: *Interdisciplinary Ecology*

Dissertation: Community Dynamics and Under-Ground Functional Trait Responses of Plants in Pine Savannas after Fire Suppression

Dissertation Chair: F. E. Putz

**Emily Thuong Nguyen Dinh**

Major: *Geography*

Minor: *Geoanalytical Ecology*

Dissertation: Epizootic Hemorrhagic Disease Virus Transmission Risk in North Florida Ranches and Wild White-Tailed Deer

Dissertation Chair: J. K. Blackburn

**Daniel John Dobbins**

Major: *Chemistry*

Dissertation: Bulk Thermoresponsive Polymeric Materials for Insensitive Munitions Applications: Diels-Alder Crosslinked Networks and Energetic Polymers

Dissertation Chair: B. S. Sumerlin

**Michael T. Dobbins**

Major: *Interdisciplinary Ecology*

Dissertation: Anthropogenic Impacts on Tropical Mammals

Dissertation Chair: E. N. Broadbent

**Anthony M. Donaldson Jr.**

Major: *History*

Dissertation: Waiting Is Not an Option: The Quest for Black Political Power in North Carolina, 1963-1981

Dissertation Chair: W. Link

**Jun Dong**

Major: *Mechanical Engineering*

Dissertation: An Experimental and Modeling Study of Fundamental Spray Cooling Heat Transfer for Terrestrial and In-Space Cryogenic Storage Tank Chilldown

Dissertation Chair: J. N. Chung

**Krista Marie Dulany**

Major: *Materials Science and Engineering*

Dissertation: Investigation of Free Radical Scavenging Composite Scaffolds for Bone Tissue Engineering

Dissertation Chair: J. Allen

**Alexandrea A. Duscher**

Major: *Microbiology and Cell Science*

Dissertation: Impact of Modeled Microgravity on the Beneficial Symbiosis between the Hawaiian Bobtail Squid, *Euprymna scolopes*, and Its Bioluminescent Partner, *Vibrio fischeri*, with a Focus on Innate Immune Response

Dissertation Chair: J. S. Foster

**Amanda B. Edgell**

Major: *Political Science*

Dissertation: The Strategic Origins of Electoral Gender Quotas in Authoritarian Regimes

Dissertation Chair: M. H. Bernhard

**Juliette Experton**

Major: *Chemistry*

Dissertation: Electrochemical Investigations of Gold-Microtube Membranes with Applications in Biology and Energy

Dissertation Chair: C. R. Martin



**Ashley Marie Compaan**

Major: *Materials Science and Engineering*

Dissertation: Design of Inks and Printing Media for Advanced 3D Printing Applications

Dissertation Chair: Y. Huang

**Keith J. Copenhaver**

Major: *Mathematics*

Dissertation: Statistics in Rooted Trees

Dissertation Chair: M. Bona

**Ross D. Cotton**

Major: *Political Science*

Dissertation: The Challengers of Regional Authority Explaining Regionalist Party Success and Failure in Scotland and Quebec

Dissertation Chair: C. O'Dwyer

**Austin D. Council**

Major: *Agricultural Education and Communication*

Dissertation: Exploring the Perceptions, Development and Expression of Leadership among Identified Humble Leaders in the Florida Agriculture and Natural Resources Industry

Dissertation Chair: M. J. Sowcik

**Christian Abraham Cousin**

Major: *Mechanical Engineering*

Dissertation: Hybrid Exoskeletons for Rehabilitation: A Nonlinear Control Approach

Dissertation Chair: W. E. Dixon

**Thomas Coe Cross**

Major: *Business Administration—Management*

Dissertation: Effect of Service Orientation on Helping Behavior in Teams and Team Performance

Dissertation Chair: A. Erez

**Amanda C. Croteau**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Evaluation of Coastal Marsh Restoration Efforts in Robinson Preserve, Tampa Bay, Florida

Dissertation Chair: C. Cichra

**Katrina Kayla Cuddy**

Major: *Botany*

Dissertation: Previously Unknown, Now Separated from the Family: Why a Protein Closely Related to Novel Actin Depolymerizing Factor Regulators Could Be Sent to the ER

Dissertation Chair: D. G. Oppenheimer

**Emily C. Dabe**

Major: *Medical Sciences—Neuroscience*

Dissertation: The Epigenomic Bases of Neuronal Identity

Dissertation Chair: L. L. Moroz

**Kristen A. Dahl**

Major: *Interdisciplinary Ecology*

Dissertation: Life History and Ecology of Rapidly Expanding Invasive Lionfish Populations in the Northern Gulf of Mexico: Impacts to Native Reef Fish Communities and Their Potential Mitigation

Dissertation Chair: W. F. Patterson III

**Philip Franklin Daniels**

Major: *Counseling and Counselor Education*

Dissertation: Connecting through Play: The Lived Experience of Formal Caregivers for Individuals with Progressive Dementia in a Memory Care Community

Dissertation Chair: S. L. Smith

**Patryk Deptula**

Major: *Mechanical Engineering*

Dissertation: Data-Based Reinforcement Learning: Approximate Optimal Control for Uncertain Nonlinear Systems

Dissertation Chair: W. E. Dixon

**Jess-Karan Singh Dhillon**

Major: *Medical Sciences—Neuroscience*

Dissertation: Investigating the Strain Properties of Alpha-Synuclein: Implications for Pathogenesis

Dissertation Chair: B. I. Giasson

**Milton Hugo Díaz Toribio**

Major: *Interdisciplinary Ecology*

Dissertation: Community Dynamics and Under-Ground Functional Trait Responses of Plants in Pine Savannas after Fire Suppression

Dissertation Chair: F. E. Putz

**Emily Thuong Nguyen Dinh**

Major: *Geography*

Minor: *Geoanalytical Ecology*

Dissertation: Epizootic Hemorrhagic Disease Virus Transmission Risk in North Florida Ranches and Wild White-Tailed Deer

Dissertation Chair: J. K. Blackburn

**Daniel John Dobbins**

Major: *Chemistry*

Dissertation: Bulk Thermoresponsive Polymeric Materials for Insensitive Munitions Applications: Diels-Alder Crosslinked Networks and Energetic Polymers

Dissertation Chair: B. S. Sumerlin

**Michael T. Dobbins**

Major: *Interdisciplinary Ecology*

Dissertation: Anthropogenic Impacts on Tropical Mammals

Dissertation Chair: E. N. Broadbent

**Anthony M. Donaldson Jr.**

Major: *History*

Dissertation: Waiting Is Not an Option: The Quest for Black Political Power in North Carolina, 1963-1981

Dissertation Chair: W. Link

**Jun Dong**

Major: *Mechanical Engineering*

Dissertation: An Experimental and Modeling Study of Fundamental Spray Cooling Heat Transfer for Terrestrial and In-Space Cryogenic Storage Tank Chilldown

Dissertation Chair: J. N. Chung

**Krista Marie Dulany**

Major: *Materials Science and Engineering*

Dissertation: Investigation of Free Radical Scavenging Composite Scaffolds for Bone Tissue Engineering

Dissertation Chair: J. Allen

**Alexandrea A. Duscher**

Major: *Microbiology and Cell Science*

Dissertation: Impact of Modeled Microgravity on the Beneficial Symbiosis between the Hawaiian Bobtail Squid, *Euprymna scolopes*, and Its Bioluminescent Partner, *Vibrio fischeri*, with a Focus on Innate Immune Response

Dissertation Chair: J. S. Foster

**Amanda B. Edgell**

Major: *Political Science*

Dissertation: The Strategic Origins of Electoral Gender Quotas in Authoritarian Regimes

Dissertation Chair: M. H. Bernhard

**Juliette Experton**

Major: *Chemistry*

Dissertation: Electrochemical Investigations of Gold-Microtube Membranes with Applications in Biology and Energy

Dissertation Chair: C. R. Martin

**Ahmed Hassan Fahmy**

Major: *Electrical and Computer Engineering*

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

Dissertation Chair: R. Bashirullah

Dissertation Co-chair: N. Maghari

**Rashidah Halimah Farid**

Major: *Wildlife Ecology and Conservation*

Dissertation: Demography and Population Dynamics of the Gunnison (*Cynomys gunnisoni*) Prairie Dog in the Southwest United States

Dissertation Chair: V. K. Hull

Dissertation Co-chair: R. R. Carthy

**Soheil Fathi**

Major: *Design, Construction and Planning*

Dissertation: Campus Energy Usage Prediction (CEUP) Using Artificial Intelligence for Climate Change Adaptation

Dissertation Chair: R. S. Srinivasan

Dissertation Co-chair: C. J. Kibert

**Maureen Patricia Fennessy**

Major: *Curriculum and Instruction*

Dissertation: Reading and Writing in Sixth-Grade Science Classrooms

Dissertation Chair: Z. Fang

**Margaret Mary Fettis**

Major: *Biomedical Engineering*

Dissertation: Advancing Galectin-1 as an Immunomodulatory Therapeutic

Dissertation Chair: G. Hudalla

**Nicholas T. Foreman**

Major: *History*

Dissertation: The Calorie of Progress: Food and Culture in the Lower Mississippi Valley, 1760-1860

Dissertation Chair: J. Barr

Dissertation Co-chair: I. L. Altman

**Andressa Morato Freitas**

Major: *Soil and Water Sciences*

Dissertation: Phosphorus Release from Biochar of Various Feedstocks Implications for Land Management

Dissertation Chair: V. D. Nair

**Claire Nicoli Friedrichsen**

Major: *Soil and Water Sciences*

Dissertation: Identifying Communication Barriers to Successful Implementation of Soil and Water Technology for Improving Food Security

Dissertation Chair: S. H. Daroub

**Kia C. Fuller**

Major: *Genetics and Genomics*

Dissertation: Examining the Roles of Genetics and Sociocultural Environment in Health: Investigating Complex Disease through a Biocultural Lens

Dissertation Chair: C. J. Mulligan

**Rodrigo Furtado dos Santos**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Optimizing Genome-Wide Selection for Forest Tree Breeding

Dissertation Chair: M. Kirst

**Hunter S. Futch**

Major: *Medical Sciences—Neuroscience*

Dissertation: Immunotherapeutic Targeting of Corticotropin-Releasing Factor in Alzheimer's Disease

Dissertation Chair: T. E. Golde

**Joshua Jodhimani Gabriel**

Major: *Materials Science and Engineering*

Dissertation: Uncertainty Quantification of Material Properties Calculated with Density Functional Theory

Dissertation Chair: R. Hennig

**Daniel Marcus Garcia**

Major: *Mechanical Engineering*

Dissertation: Advances in Soft Matter Contact Mechanics

Dissertation Chair: T. E. Angelini

**Jorge Luis Garcia**

Major: *Anthropology*

Dissertation: Dietary Social Equality or Inequality at La Tolita a Complex Intercostal Society in Ecuador

Dissertation Chair: A. Oyuela-Caycedo

**Kristin Johnson Gardner**

Major: *Criminology, Law and Society*

Dissertation: Examining the Impact of Transfer on Adult Recidivism over the Long Term: A Propensity Score Matching Approach

Dissertation Chair: L. M. Lanza-Kaduce

**Debolina Ghosh**

Major: *Counseling and Counselor Education*

Dissertation: Creativity in Cross-Cultural Supervision: A Grounded Theory Approach

Dissertation Chair: S. L. Smith

**Elisabeth K. Gilbert**

Major: *Business Administration—Management*

Dissertation: The Trickle-Down Effects of Constructive Deviance

Dissertation Chair: J. Bono

**Sabrina Marie Gilchrist**

Major: *English*

Dissertation: Spinning Out of Control: Intersections of the Waltz and Literature in Nineteenth-Century England

Dissertation Chair: P. K. Gilbert

**Christina Marie Gobin**

Major: *Psychology*

Dissertation: Neurobiological Substrates of Post-Cocaine Cognitive Function and Drug Seeking: Role of Metabotropic Glutamate Receptor 5

Dissertation Chair: M. Schwendt

**Sean Louis Goldberg**

Major: *Computer Engineering*

Dissertation: Active Graph Inference in Knowledge Bases

Dissertation Chair: Z. Wang

Dissertation Co-chair: J. N. Wilson

**Tamara Gonçalves Rezende Macieira**

Major: *Nursing Sciences*

Dissertation: Novel Use of Standardized Nursing Care Plan Data to Examine Nursing Care for Hospitalized Older Adults with Cognitive Impairment

Dissertation Chair: G. M. Keenan

**Ankush Goswami**

Major: *Mathematics*

Dissertation: Some Problems in Analytic Number Theory

Dissertation Chair: K. Alladi

**David McCaskill Gray**

Major: *Electrical and Computer Engineering*

Dissertation: Classifier Training Set Augmentation by Warping Synthetic Data in a Subspace Manifold

Dissertation Chair: J. C. Principe

Dissertation Co-chair: J. G. Harris

**Benjamin M. Greek**

Major: *Mechanical Engineering*

Dissertation: Solar Thermochemical H<sub>2</sub> and CO Production Utilizing a Nonstoichiometric Cerium-Based Two-Step Cycle at the 10 kW Reactor Scale

Dissertation Chair: D. W. Hahn

**Nicholas Ryan Green**

Major: *Psychology*

Dissertation: Evaluation of Behavioral Procedures and Workers Preferences to Increase Workplace Physical Activity

Dissertation Chair: J. Dallery

**Taneshia Althea Greenidge**

Major: *Counseling and Counselor Education*

Dissertation: The Lived Experiences of African American College Women's Self-Esteem and the Impact of Racial Socialization

Dissertation Chair: M. K. DePue

**Adam Jay Grippin**

Major: *Biomedical Engineering*

Dissertation: Engineering Nanoparticles for Treatment of Glioblastoma

Dissertation Chair: J. P. Dobson

Dissertation Co-chair: D. Mitchell

**Alexander Nicholas Gruber**

Major: *Mathematics*

Minor: *Computer Science*

Dissertation: Inference and Classification of Symmetry in Point Clouds

Dissertation Chair: K. P. Knudson

**Mengyi Gu**

Major: *Entomology and Nematology*

Minor: *Plant Pathology*

Dissertation: Bermudagrass Root Rot Complexes Associated with Plant-Parasitic Nematodes and *Pythium* Species on Golf Courses in Florida

Dissertation Chair: W. T. Crow

**Gisselle Esther Guerra Saval**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Saltwater Intrusion in Estuaries of Different Climatic Regions

Dissertation Chair: A. Valle-Levinson

**Natalie Hagler**

Major: *Curriculum and Instruction*

Dissertation: Facilitating Critical Dialogue to Develop the Critical Social Justice Literacy of Teacher Candidates: The Lived Experience of Teacher Educators

Dissertation Chair: N. L. Dana

**Taylor Laine Hansen**

Major: *Animal Sciences*

Minor: *Agronomy*

Dissertation: Role of Dietary Fiber on Digestion and Passage Kinetics in Horses

Dissertation Chair: L. K. Warren

**Amani M. Harrandah**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Exploring the Roles of MicroRNA and Oral Bacteria in Oral Carcinogenesis

Dissertation Chair: E. K. Chan

**William C. Hedderson**

Major: *Health and Human Performance*

Dissertation: The Effects of Propranolol on Acute Inflammatory Cytokines and Muscle Function following an Exercise-Induced Muscle Injury to the Shoulder in Individuals with a High Pain Sensitivity COMT Polymorphism

Dissertation Chair: P. A. Borsa

**Deon Victoria Heffington**

Major: *Curriculum and Instruction*

Dissertation: Higher Order Thinking Skills among Latinx English Language Learners in Elementary Classrooms: An Exploratory Study

Dissertation Chair: M. R. Coady

**Lauren Michael Henry**

Major: *Criminology, Law, and Society*

Dissertation: Prosecutorial Sexual Assault Case Declination in Indian Country: A Legal Theory Consideration

Dissertation Chair: L. M. Lanza-Kaduce

**Michael C. Hermansen**

Major: *Medical Sciences—Medical Physics*

Dissertation: Optimizing Image Acquisition and Reconstruction for a Novel Robotic Cone-Beam Computed Tomography Imaging System

Dissertation Chair: F. J. Bova

**Jana Renee Hilsenroth**

Major: *Interdisciplinary Ecology*

Dissertation: Changing Seas: Potential Effects of Increasing Ocean Temperatures on the Black Pearl Industry in French Polynesia

Dissertation Chair: T. K. Frazer

**Juan M. Hincapie Castillo**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Evaluating Unintended Consequences of Strategies Aimed to Control the Opioid Crisis on Acute Pain Management Patient Outcomes

Dissertation Chair: A. G. Winterstein

**Charles Edwin Hobson**

Major: *Health Services Research*

Dissertation: Using Electronic Phenotyping to Improve the Analytic Power of Claims-Based Episode of Care Analysis

Dissertation Chair: A. G. Mainous III

**Kelsey Christine Horvath**

Major: *Animal Sciences*

Dissertation: Environmental Effects on the Development of Behavior and Cognition in Dairy Calves

Dissertation Chair: E. K. Miller Cushon

**Md Marup Hossain**

Major: *Food and Resource Economics*

Dissertation: Access to Capital and Subsequent Livelihoods of Smallholders

Dissertation Chair: C. Mullally

**Alisa Houseknecht**

Major: *Counseling and Counselor Education*

Dissertation: Motivation, Belonging, and Support: Examining Factors that Affect Persistence in Counselor Preparation Programs

Dissertation Chair: J. M. Swank

**Tongyi Huang**

Major: *Botany*

Dissertation: Evaluation of the Responses of Global Terrestrial Carbon Cycle Models to Climate Variability

Dissertation Chair: J. W. Lichstein

**Hyunchul Hwang**

Major: *Civil Engineering*

Dissertation: Development of Accelerated Methodologies for Structural Layer Coefficients (SLCs) of Bases

Dissertation Chair: D. R. Hiltunen

**Sabrina Islam**

Major: *Public Health*

Dissertation: Psychological Intimate Partner Violence Attitudes and Sexual Stigma among Lesbian and Bisexual Women

Dissertation Chair: K. M. Ross

Dissertation Co-chair: A. N. Zucker

**Deja M. Jackson**

Major: *Civil Engineering*

Minor: *Urban and Regional Planning*

Dissertation: A Multi-Level Exploratory Analysis of Motorcycle Safety

Dissertation Chair: S. Srinivasan

**Alyssa M. Jaisle**

Major: *Mass Communication*

Dissertation: Applying the Extended Parallel Process Model to Hurricane Risk and Resource Communication

Dissertation Chair: J. Raup-Krieger

**Peyman Jalali**

Major: *Statistics*

Dissertation: A Bayesian Approach to Joint Estimation of Multiple Graphical Models

Dissertation Chair: G. Michailidis

Dissertation Co-chair: K. Khare

**Shalini Jayaraman Rukmani**

Major: *Materials Science and Engineering*

Dissertation: Design of Polymeric Materials for Energy and Biomedical Applications through Molecular Simulations

Dissertation Chair: C. M. Colina

**Jana Rose Jenquin**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Small Molecule Approaches to Reduce the Effects of Toxic Repeat RNA in Myotonic Dystrophy Models

Dissertation Chair: J. A. Berglund

**Kookhyun Jeong**

Major: *Materials Science and Engineering*

Dissertation: Innovative Coating of Vanadium Carbide on the F/M Cladding Tube Inner Surface for Mitigating Fuel Cladding Chemical Interactions

Dissertation Chair: Y. Yang

**Tian Jiang**

Major: *Chemistry*

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

Dissertation Chair: Y. C. Cao

**Yue Jiang**

Major: *Medical Sciences—Cancer Biology*

Dissertation: Functional Properties of MYB-NFIB Gene and Novel Therapeutic Strategy Development in Human Adenoid Cystic Cancer

Dissertation Chair: F. J. Kaye

**Mustafa Ojonuba Jibrin**

Major: *Plant Pathology*

Dissertation: Global and Regional Studies on Population Genomics, Recombination, Spread and Diversification of Bacterial Spot Xanthomonads

Dissertation Chair: P. D. Roberts

Dissertation Co-chair: J. B. Jones

**Joseph John Thalakkottor**

Major: *Mechanical Engineering*

Dissertation: Developing a Unified Velocity Boundary Condition for Fluid Flows

Dissertation Chair: K. Mohseni

**Lacey Alexandra Johnson**

Major: *Mathematics*

Dissertation: Discrete Morse Theory on the Loop Space of  $S^2$

Dissertation Chair: K. P. Knudson

**Robert A. Johnson**

Major: *Zoology*

Dissertation: Effects of Green Turtle Grazing on Carbon Dynamics and Infaunal Communities in *Thalassia testudinum* Seagrass Meadows

Dissertation Chair: K. A. Bjorndal

**Timothy Scott Johnson**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Applied Volatilomics: From Floral Fragrance to Fruit Flavor

Dissertation Chair: T. A. Colquhoun

**Madison Percy Jones IV**

Major: *English*

Dissertation: Writing, Place, Network

Dissertation Chair: S. I. Dobrin

**Willis Bradley Jones**

Major: *Chemistry*

Dissertation: Characterization of Limiting Noise in Laser-Induced Breakdown Spectroscopy

Dissertation Chair: N. Omenetto

**Subhorn Khonthapagdee**

Major: *Mathematics*

Dissertation: Models of Crowding Effect on Phytoplankton Competition for Nitrogen

Dissertation Chair: S. S. Pilyugin

**Min-Kyoung Kim**

Major: *Design, Construction and Planning*

Dissertation: Impact of Multi-Sensory Environment on Target Behaviors of Children with Autism Spectrum Disorder in South Korea: A Single-Subject Experimental Design

Dissertation Chair: N. Park

**Minseong Kim**

Major: *Health and Human Performance*

Dissertation: Corporate Social Responsibility as a Determinant of Brand Development in the Foodservice Industry

Dissertation Chair: S. O. Stepchenkova

**Stephen Sean Kirkman**

Major: *Computer Engineering*

Dissertation: Trust Framework for the Cloud Using a Model of Trust, Data Movement Policies, and Decentralization Using Blockchain Technology

Dissertation Chair: R. E. Newman

**Faris Rashad Kronfli**

Major: *Psychology*

Dissertation: Evaluating Preference for and Reinforcing Efficacy of Fruits and Vegetables Compared with Salty and Sweet Foods

Dissertation Chair: T. R. Vollmer

**Justin Joseph Kurian**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Identification and Characterization of Parvovirus Proteolytic Activity

Dissertation Chair: R. McKenna

Dissertation Co-chair: M. Agbandje-McKenna



**Hyok-Je Kwon**

Major: *Design, Construction and Planning*

Dissertation: The Impact of Neighborhood Environment on Aging in Place

Dissertation Chair: R. L. Steiner

**Shannon R. Lalor**

Major: *History*

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

Dissertation Chair: I. L. Altman

**Tian Lan**

Major: *Chemical Engineering*

Dissertation: Cellular Dynamics Properties in Bioimages Analysis

Dissertation Chair: Y. Tseng

**Nelmarie Landrau Giovannetti**

Major: *Veterinary Medical Sciences*

Dissertation: Detection and Characterization of Emerging Pathogens in Stranded Cetaceans

Dissertation Chair: T. B. Waltzek

**Jessica Ann Laskowski**

Major: *Wildlife Ecology and Conservation*

Dissertation: Effects of Animal Traits and Environmental Conditions on Animal Patch Choice and Foraging Behavior

Dissertation Chair: R. A. McCleery

**Scott R. Latimer**

Major: *Plant Molecular and Cellular Biology*

Dissertation: Elucidation of Biosynthetic Genes and Connections to the Metabolism of Plant Terpenoid Quinones

Dissertation Chair: G. J. Basset

**Nathan Ryan Lawres**

Major: *Anthropology*

Dissertation: Engaging the Monumental through the Ontological: The Belle Glade Monumental Landscape of South Florida

Dissertation Chair: W. H. Marquardt

**Ah-Ram Lee**

Major: *Mass Communication*

Dissertation: The Effects of Technology-Mediated Communications on Elderly-Related Campaigns: The Interplay of Perceived Probability, Construal Level, and Message Appeal

Dissertation Chair: L. L. Hon

**Weixuan Li**

Major: *Mechanical Engineering*

Dissertation: A Concurrent Atomistic-Continuum Study of Phonon Transport and Dislocation Dynamics on Mesoscale Materials

Dissertation Chair: Y. Chen

**Yan Li**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Epidemiology and Safety of Skeletal Muscle Relaxant and Concomitant Opioid or Psychotropic Medication Use

Dissertation Chair: A. G. Winterstein

**Ziming Li**

Major: *Design, Construction and Planning*

Dissertation: Understanding Informality and Planning for Safe and Inclusive Urban Spaces: A Case Study of Slums in Patna, India

Dissertation Chair: A. Alakshendra

**Yan Liao**

Major: *Soil and Water Sciences*

Minor: *Urban and Regional Planning*

Dissertation: Capture Hydrology and Carbon Dynamics of Everglades through Earth System Models

Dissertation Chair: S. Gerber

**Ji Liu**

Major: *Chemistry*

Dissertation: Enantioselective Synthesis of StackPhos and Its Application in Transition Metal Catalysis and Reagent Development for Iterative Glycosylation

Dissertation Chair: A. Aponick

**Lorena Lopez**

Major: *Entomology and Nematology*

Dissertation: Development and Application of Integrated Pest Management Strategies to Manage Key Arthropod Pests and Beneficials in Organic Zucchini Squash

Dissertation Chair: O. E. Liburd

**Mark Preston Sumcad Lopez**

Major: *Curriculum and Instruction*

Dissertation: Culturally and Linguistically Responsive Teaching: Teachers' Practices with English Learners in Rural Elementary Classroom Settings

Dissertation Chair: M. R. Coady

**Craig A. Machado**

Major: *Chemistry*

Dissertation: Self-Assembly of Stimuli-Responsive Block Copolymers

Dissertation Chair: D. A. Savin

**Ginessa Jean Mahar**

Major: *Anthropology*

Dissertation: The Practice of Fishing: Investigating the Sociality of Mass-Capture Fishing along the North Florida Gulf Coast

Dissertation Chair: N. J. Wallis

**Allen R. Majewski**

Major: *Physics*

Dissertation: Density Functional Theory Calculations of Temperature Dependent NQR Parameters in Solid Crystalline Materials

Dissertation Chair: N. S. Sullivan

**Rachna Hiren Manek**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Molecular Mechanisms in Spinocerebellar Ataxia Type 1

Dissertation Chair: E. Rodriguez-Lebron

**Sarah Grace Martner**

Major: *Psychology*

Dissertation: Technology-Based Assessment of Smoking and Vaping

Dissertation Chair: J. Dallery

**Elizabeth Anne Matthews**

Major: *Human-Centered Computing*

Dissertation: A Study and Verification of Techniques for Measuring Enjoyment in Video Games Containing Procedural Generation

Dissertation Chair: J. E. Gilbert

**Lily Thane Maynard**

Major: *Interdisciplinary Ecology*

Dissertation: Are Zoos Conservation Leaders? Using Organizational Conservation Identity and Social Network Analysis to Assess Zoos' Collective Impact

Dissertation Chair: S. Jacobson

Dissertation Co-chair: M. C. Monroe

**Kevin T. McCullough**

Major: *Medical Sciences—Genetics*

Dissertation: Developing a Treatment for Autosomal Dominant Cone Rod Dystrophy 6 Using CRISPR/Cas9 via AAV

Dissertation Chair: S. E. Boye

**Antionette M. McFarlane**

Major: *Sociology*

Dissertation: "Black Men and Women Are Not Raised to Love Each Other": The Perspectives of Black College Students regarding Dating Violence

Dissertation Chair: C. L. Shehan

**Christina M. McGrath Fair**

Major: *Counseling and Counselor Education*

Dissertation: College Freshman Women's Perspective of Campus Sexual Culture: A Photo-Elicitation Study

Dissertation Chair: S. L. Smith

**Bethany L. McGregor**

Major: *Entomology and Nematology*

Dissertation: Ecology of *Culicoides* Biting Midges and Their Role as Vectors of Epizootic Hemorrhagic Disease Virus on Florida Big Game Preserves

Dissertation Chair: N. D. Burkett-Cadena

**Miles Derrick Medina**

Major: *Agricultural and Biological Engineering*

Dissertation: Inferring Deterministic Nonlinear Interactions in Complex Ecohydrological Systems

Dissertation Chair: R. G. Huffaker

**Joan Marie Meiners**

Major: *Interdisciplinary Ecology*

Dissertation: Data Dynamics of Bee Biodiversity: Understanding Native Bee Ecology

Dissertation Chair: T. K. Frazer

**Kannan Menon**

Major: *Biomedical Engineering*

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

Dissertation Chair: J. R. Forder

Dissertation Co-chair: S. J. Blackband

**Justin J. Millar**

Major: *Forest Resources and Conservation*

Dissertation: Development of Novel Statistical Methods and Decision Support Tools for the Management of Malaria in Western Africa

Dissertation Chair: D. Ribeiro Do Valle

**Sourabh Mishra**

Major: *Chemistry*

Dissertation: Facile Tuning of Atropisomeric *P,N*-Ligands Towards an Efficient Enantioselective Catalysis

Dissertation Chair: A. Aponick

**Amirhossein Moeini**

Major: *Electrical and Computer Engineering*

Dissertation: Investigating Modulation Techniques for Four-Quadrant Grid-Tied Multilevel Converters to Achieve High Efficiency and High Dynamic Performance

Dissertation Chair: S. Wang

**Douglas A. Monroe**

Major: *Anthropology*

Dissertation: Food Deserts, Food Insecurity, and the Community Food Movement

Dissertation Chair: C. C. Gravlee IV

**Anneloes Chantal Mook**

Major: *Sociology*

Dissertation: Certification, Market Construction, and the Global Value Chain: A Comparative Analysis of Citrus Imports into the European Union and the United States

Dissertation Chair: C. A. Overdeest

**Sara A. Moore**

Major: *Sociology*

Dissertation: Occupational Inequalities in Earnings Instability

Dissertation Chair: C. W. Peek IV

**Adriana Moreira Zolini**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Identification and Characterization of Genes and Genetic Variants Controlling Fertility and Embryo Survival in Dairy Cattle

Dissertation Chair: P. J. Hansen

**Michael D. Morrison**

Major: *Microbiology and Cell Science*

Dissertation: Investigating the Effects of the Human Spaceflight Environment on *Bacillus subtilis*

Dissertation Chair: W. L. Nicholson

Dissertation Co-chair: A. Conesa Cegarra

**Sarah E. Morrison-Smith**

Major: *Human-Centered Computing*

Dissertation: E-Science Collaborations in the Life-Sciences: Challenges and Design Opportunities for Technology and Coordination

Dissertation Chair: J. Ruiz

**Justin Robert Mulcahy**

Major: *Chemistry*

Dissertation: Growth and Reactivity of Fluorine-Mediated Faceted Anatase Titanium Dioxide Crystals for Applications in Photocatalysis

Dissertation Chair: W. Wei

**Mitch R. Murray**

Major: *English*

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

Dissertation Chair: P. E. Wegner

**Nathaniel Thomas Murray**

Major: *Curriculum and Instruction*

Dissertation: Teacher Education for Chinese EFL Contexts: a Case Study of U.S.-Trained Professors Teaching English for Academic Purposes

Dissertation Chair: Z. Fang

**Jennifer Karen Nelson**

Major: *Classical Studies*

Dissertation: Gian Vittorio Rossi's 1637 *Eudemiae libri VIII*: Translated with an Introduction and Notes

Dissertation Chair: K. Kapparis

**Nicole Rachel Nissim**

Major: *Medical Sciences—Neuroscience*

Dissertation: Neural Effects of Transcranial Direct Current Stimulation Paired with Cognitive Training on Working Memory

Dissertation Chair: A. J. Woods

**Claribel Nuñez**

Major: *Chemistry*

Dissertation: A Functional Azasugar Biosynthetic Cluster from *Chitinophaga pinensis*

Dissertation Chair: N. A. Horenstein

**Christopher S. O'Bryan**

Major: *Mechanical Engineering*

Dissertation: Aqueous and Organic Microgels for Soft Matter Manufacturing

Dissertation Chair: T. E. Angelini

**Enrico Opri**

Major: *Biomedical Engineering*

Dissertation: Cortico-Thalamic Neurophysiology and Applications in Humans Affected by Essential Tremor

Dissertation Chair: A. Gunduz

**Akanksha Pandey**

Major: *Zoology*

Dissertation: Exploring Complex Phylogenomic Problems Using Protein Structure Based Models

Dissertation Chair: E. L. Braun

**Venkata Raghu Tej Pantangi**

Major: *Mathematics*

Dissertation: Smith and Critical Groups of Graphs

Dissertation Chair: P. K. Sin

**Mukesh Pappoppula**

Major: *Chemistry*

Dissertation: Enantioselective Dearomative Alkynylation of Nitrogen Heterocycles

Dissertation Chair: A. Aponick

**Matthew Richard Peace**

Major: *Curriculum and Instruction*

Dissertation: Measuring Student Engagement and Achievement in Online College Mathematics Classes

Dissertation Chair: T. L. Adams

**Andres Alfredo Pech Cervantes**

Major: *Animal Sciences*

Dissertation: Use of Expansins and Fibrolytic Enzymes to Improve Fiber Digestion in Ruminant Feeds

Dissertation Chair: A. T. Adesogan

Dissertation Co-chair: D. Vyas

**Cory James Penca**

Major: *Entomology and Nematology*

Dissertation: The Catfacing Pest Complex in Florida Peaches and the Use of Pyriproxyfen for Diapause Interference and Parasitoid Rearing

Dissertation Chair: A. C. Hodges

**Katherine Nicole Peters**

Major: *English*

Dissertation: Disruptive Geographies: Trauma, Memory, and the Spatializing Discourses of Travel

Dissertation Chair: J. W. Page

**Douglas T. Pfeffer**

Major: *Mathematics*

Dissertation: Szegő and Widom Theorems for Finite-Codimensional Subalgebras of a Class of Uniform Algebras

Dissertation Chair: M. T. Jury

**John M. Pfeiffer III**

Major: *Zoology*

Dissertation: Freshwater Mussel (*Bivalvia*: Unionidae) Evolution: New Insights by Way of Undersampled Lineages and Genomes

Dissertation Chair: L. M. Page

**Carlos Raul Pitta Arcos**

Major: *Food and Resource Economics*

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

Dissertation Chair: R. N. Weldon

**Francesco Pittaluga**

Major: *Electrical and Computer Engineering*

Dissertation: Privacy-Preserving Computational Cameras

Dissertation Chair: S. J. Koppal

**Nikea Chanel Pittman**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Structure and Function Investigation of Anti-Tumor Parvoviruses

Dissertation Chair: M. Agbandje-McKenna

**Anthony Francis Pivarunas**

Major: *Geology*

Dissertation: Space and Time: Using Paleomagnetism, Geochronology and Numerical Methods to Create and Assess Spatiotemporal Geological Relationships through Earth History

Dissertation Chair: J. G. Meert

**Eliana Maria Pizarro**

Major: *Psychology*

Dissertation: Evaluation of Multiple Schedules following Functional Communication Training

Dissertation Chair: T. R. Vollmer

**Nicholas Joseph Potter**

Major: *Medical Sciences—Medical Physics*

Dissertation: Feasibility Study of the Flattening Filter Removal Design for Conventional Treatments Using a Linear Accelerator

Dissertation Chair: B. Lu

Dissertation Co-chair: D. R. Gilland

**Mahmoud Pourmehrab**

Major: *Civil Engineering*

Dissertation: Optimizing Signalized Intersections Performance under Conventional and Automated Vehicles Traffic

Dissertation Chair: A. Elefteriadou

**Stephen M. Pridgen**

Major: *Sociology*

Dissertation: Cultural Cognition and Wisdom as Strategies to Combat Anti-Intellectualism in Higher Education

Dissertation Chair: M. Ardelt

**Candice Marie Prince**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Influence of Environmental Factors on Growth and Management of Invasive Florida Grasses

Dissertation Chair: G. E. MacDonald

**Lourdes Rebeca Ptschelinzew**

Major: *Design, Construction and Planning*

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

Dissertation Chair: R. E. Minchin Jr.

**Justin B. Quinn**

Major: *Anthropology*

Dissertation: Right to the Railroad: Publics and the Promise of High-Speed Rail in Contemporary México

Dissertation Chair: R. B. Kernaghan

**Anthony W. Raborn**

Major: *Research and Evaluation Methodology*

Minor: *Statistics*

Dissertation: Resampling Techniques for Model Selection with Ordered Polytomous Scales

Dissertation Chair: A. C. Manley

**Kelly Ann Racette**

Major: *Agronomy*

Dissertation: Assessing Transgenerational Stress Memory Induced by Water-Saving Irrigation Management in Peanut (*Arachis hypogaea* L.)

Dissertation Chair: B. Tillman

Dissertation Co-chair: D. L. Rowland

**Levy G. Randolph II**

Major: *Agricultural Education and Communication*

Dissertation: Farmers Sharing Their Stories: A Comparison between Analytical and Narrative Persuasion on Views about Food Safety Practices

Dissertation Chair: R. W. Telg

**Liz Redford**

Major: *Psychology*

Dissertation: Motivational Antecedents of Retribution

Dissertation Chair: K. Ratliff

**Kristina Patricia Riemer**

Major: *Wildlife Ecology and Conservation*

Dissertation: How Changing Temperature Affects Body Size and Metabolic Rate of Animal Species

Dissertation Chair: E. P. White

**Camila Rodrigues**

Major: *Nutritional Sciences*

Dissertation: The Effect of Sulfur-Containing Compounds and Hydrogen Sulfide in the Modulation of the Immune Response

Dissertation Chair: S. S. Percival

**Katie L. Rogers**

Major: *Horticultural Sciences*

Dissertation: Characterization and Induction of Precocious Flowering in Citrus

Dissertation Chair: J. X. Chaparro

**Tiffany Myra Rogers-Randolph**

Major: *Agricultural Education and Communication*

Dissertation: Telling the Story of American Agriculture: State FFA Officers Engagement in Online Agricultural Communications

Dissertation Chair: L. K. Lundy

**Erica P. Ross**

Major: *Fisheries and Aquatic Sciences*

Dissertation: The Effects of Environmental Change and Pathogen Specificity on the Chemosensory Ecology of *Panulirus argus*: Refining Fundamental Tools and Implementing New Technology

Dissertation Chair: D. C. Behringer Jr.

**Courtney A. Rouse**

Major: *Mechanical Engineering*

Dissertation: A Switched Systems Approach to Human-Machine Interaction

Dissertation Chair: W. E. Dixon

**Katie Marisa Rubin**

Major: *Anthropology*

Dissertation: The Adsorption of Toxic Substances in the Human Skeleton: Forensic and Humanitarian Applications

Dissertation Chair: J. Krigbaum

Dissertation Co-chair: B. A. Goldberger

**Zilfina Rubio Ames**

Major: *Horticultural Sciences*

Dissertation: The 'Ideal Peach' and the Role of Nitrogen Fertilization in the Development of Peach Postharvest Attributes

Dissertation Chair: J. K. Brecht

Dissertation Co-chair: M. A. Olmstead

**Arthur B. Rudolph**

Major: *Zoology*

Dissertation: Ecological and Evolutionary Dynamics of Flocculation in *Saccharomyces cerevisiae*

Dissertation Chair: C. M. St. Mary

**Arezou Sadoughi**

Major: *Design, Construction and Planning*

Dissertation: Incorporation of Indoor Air Quality in Multi-Family Affordable Housing: A Study on State Program Criteria and Building Design Construction Processes

Dissertation Chair: S. Ahrentzen

Dissertation Co-chair: C. J. Kibert

**Debalina Saha**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Influence of Mulch Chemical and Physical Properties on Preemergence Herbicide Interactions and Weed Control

Dissertation Chair: S. C. Marble

Dissertation Co-chair: H. E. Pérez

**Jorge Sebastian Salinas**

Major: *Mechanical Engineering*

Dissertation: Ambient Fluid Entrainment in Turbidity Currents

Dissertation Chair: S. Balachandar

Dissertation Co-chair: T. L. Jackson

**Cassia Santos Camillo**

Major: *Wildlife Ecology and Conservation*

Dissertation: Reproductive Ecology of Six-Tubercled Amazon River Turtle in Central Amazon, Brazil

Dissertation Chair: S. A. Johnson

**Anne C. Saville**

Major: *Forest Resources and Conservation*

Dissertation: Seeking Justice: Critical Environmental Justice, Environmental Health, and Black Women Farmworker Activism

Dissertation Chair: A. E. Adams

**Walter Nolen Scaife**

Major: *Computer Science*

Dissertation: Designing Robust Defenses for Modern Payment Systems

Dissertation Chair: P. Traynor

Dissertation Co-chair: T. Shrimpton

**Louis Alan Searcy**

Major: *Chemistry*

Dissertation: Innovations in Mass Spectrometry Imaging for Metabolomics

Dissertation Chair: R. A. Yost

**Rodney Sebastian**

Major: *Religion*

Dissertation: Cultural Fusion in a Religious Dance Drama: Building the Sacred Body in the Manipuri Rāsīlās

Dissertation Chair: V. R. Narayanan

**Mirsada Serdarevic**

Major: *Epidemiology*

Dissertation: Risk Factors for Opioid Use Patterns Assessed through a Community Engagement Program in North Central Florida

Dissertation Chair: L. B. Cottler

**Bicky Shakya**

Major: *Electrical and Computer Engineering*

Dissertation: Techniques for Securing Hardware Intellectual Property throughout the Electronics Supply Chain

Dissertation Chair: D. J. Forte

**Michael H. Shang**

Major: *Medical Sciences—Medical Physics*

Dissertation: A Novel Laser Interstitial Thermal Therapy Treatment Planning System to Optimize Laser Ablation Delivery to Brain Targets

Dissertation Chair: F. J. Bova

**Jie Shao**

Major: *Pharmaceutical Sciences—Pharmacy*

Minor: *Statistics*

Dissertation: Understanding Pulmonary Targeting of Inhaled Corticosteroids

Dissertation Chair: G. Hochhaus



**Enrijeta Shino**

Major: *Political Science*

Dissertation: Survey Mode Effects: Reshaping Perceptions of the Electorate

Dissertation Chair: M. D. Martinez

Dissertation Co-chair: D. A. Smith

**Gabriel Nicholas Short**

Major: *Chemistry*

Dissertation: Expanding the Properties of Biorenewable Polymers with Bio-Cycles

Dissertation Chair: S. A. Miller

**Holly J. Shugart**

Major: *Entomology and Nematology*

Dissertation: Probing Behavior and Host Preference in the Asian Citrus Psyllid, *Diaphorina citri* (Hemiptera: Liviidae)

Dissertation Chair: M. E. Rogers

**Matthew F. Simmons**

Major: *History*

Dissertation: Revolt in the Fields: Building the Southern Tenant Farmers' Union in the Old Southwest

Dissertation Chair: P. A. Ortiz

**Skyler M. Simnitt**

Major: *Food and Resource Economics*

Dissertation: Three Essays on the H-2A Temporary Agricultural Workers Program

Dissertation Chair: D. Farnsworth

Dissertation Co-chair: G. Onel

**Randal Anthony Singer**

Major: *Interdisciplinary Ecology*

Dissertation: An Interdisciplinary Approach to Increasing Biodiversity Collections Sustainability Using Computational and Survey Methods

Dissertation Chair: L. M. Page

**Geoffrey H. Smith Jr.**

Major: *Fisheries and Aquatic Sciences*

Dissertation: Impacts of a Non-Native Piscivore, The Pike Killifish, on Juvenile Common Snook

Dissertation Chair: D. J. Murie

**J. Darby Smith**

Major: *Mathematics*

Dissertation: An Exploration and Analysis of Molecular Motor Protein Models

Dissertation Chair: S. McKinley

Dissertation Co-chair: J. E. Keesling

**Madison B. Smith**

Major: *Nursing Sciences*

Dissertation: Feasibility and Effects of a Web- and Mobile-Based Training Intervention to Support Adolescents and Young Adults with Type 1 Diabetes Using a Continuous Glucose Monitor

Dissertation Chair: G. M. Keenan

**Yifan Song**

Major: *Business Administration—Management*

Dissertation: An Identity-Based Approach to Understanding Customer Mistreatment Experience

Dissertation Chair: M. Wang

**Kelsey Lynn Stadnikia**

Major: *Nuclear Engineering Sciences*

Dissertation: Data Fusion of a Vision Aided Radiological Detection System for Nuclear Security Applications

Dissertation Chair: P. Enqvist

**Daniel Charles Stewart**

Major: *Biomedical Engineering*

Dissertation: Clinical and Cellular Causes of Tissue Stiffening through Fibrosis

Dissertation Chair: C. S. Simmons

### **Joshua Michael Stewart**

Major: *Biomedical Engineering*

Dissertation: A Dual-Sized Microparticle System for Inducing Immune Tolerance in Autoimmunity

Dissertation Chair: B. G. Keselowsky

### **Bradley Christian Stockard**

Major: *Pharmaceutical Sciences—Clinical Pharmaceutical Sciences*

Dissertation: Applying Global and Targeted Metabolomics in Pediatric Acute Myeloid Leukemia to Identify Metabolic Differences Associated with Patient Characteristics and Treatment Outcomes

Dissertation Chair: J. K. Lamba

### **Hai Su**

Major: *Biomedical Engineering*

Dissertation: Nucleus Detection, Segmentation and Semi-supervised Classification in Pathology Images

Dissertation Chair: L. Yang

### **Xiaoming Su**

Major: *Chemistry*

Dissertation: Design and Synthesis of Tungsten oxo Complexes as Single Source Precursors for Chemical Vapor Deposition of Tungsten Oxide Films

Dissertation Chair: L. A. McElwee-White

### **Stephanie Nicole Suarez**

Major: *Plant Pathology*

Dissertation: Steps towards an Integrated Approach to Managing Impatiens Downy Mildew

Dissertation Chair: A. J. Palmateer

Dissertation Co-chair: G. S. Ali

### **Ruimin Sun**

Major: *Electrical and Computer Engineering*

Dissertation: Leveraging Uncertainty to Improve System Security and Reliability

Dissertation Chair: D. Oliveira

### **Wei Sun**

Major: *Civil Engineering*

Dissertation: Freeway Network Travel Time Reliability Analysis Methodology and Software Tool Development

Dissertation Chair: S. S. Washburn

### **Daisuke Takahashi**

Major: *Chemistry*

Dissertation: Manganese/Lanthanide Heterometallic Cage Chemistry: A Molecular Approach to Perovskite Manganites

Dissertation Chair: G. Christou

### **Gordon N. Tam**

Major: *Physics*

Dissertation: 22 K Superconductivity Induced Post-Growth via Reactive Gases

Dissertation Chair: G. R. Stewart

### **Zahra Tayebi**

Major: *Food and Resource Economics*

Dissertation: The Use of Panel Time Series Data in Modeling Agricultural Markets

Dissertation Chair: G. Onel

Dissertation Co-chair: J. L. Seale Jr.

### **Adam G. Taylor**

Major: *Civil Engineering*

Dissertation: Application of Potentials to the Analysis of the Static Equilibrium of Shallow Foundations

Dissertation Chair: J. H. Chung

### **Larry Tesler**

Major: *Chemistry*

Dissertation: High-Resolution Infrared Ion Spectroscopy of Biomolecules via Cryogenic N<sub>2</sub> Tagging

Dissertation Chair: N. C. Polfer

Dissertation Co-chair: R. A. Yost

**Tolga Tezcan**

Major: *Sociology*

Dissertation: Who Returns, Who Stays, Who Are In-Between? Determinants of Return Migration Intention and Circular Migration: The Case of Turkish Immigrants in Germany

Dissertation Chair: A. Ceobanu

**Sanethia Velma Thomas**

Major: *Human-Centered Computing*

Dissertation: I AM PRO: An Intelligent Career Exploration Tool for Early Adolescent African-American Football Athletes

Dissertation Chair: J. E. Gilbert

**Caitlin M. Tibbetts**

Major: *Civil Engineering*

Dissertation: Evaluation of Porosimetry, Permeability, and Transport Mechanisms in Portland Cement Systems

Dissertation Chair: C. C. Ferraro

**Anton Alexey Titov**

Major: *Medical Sciences—Genetics*

Dissertation: Metabolic Defects of CD4+ T Cells in Systemic Lupus Erythematosus

Dissertation Chair: L. M. Morel

**Leslie Elise Todd**

Major: *Art History*

Dissertation: Reconciling Colonial Contradictions: The Multiple Roles of Sculpture in Eighteenth-Century Quito

Dissertation Chair: M. Stanfield-Mazzi

**John T. Tokarski III**

Major: *Chemistry*

Dissertation: Optically Pumped Nuclear Magnetic Resonance Investigation of Strain and Doping Effects in Gallium Arsenide

Dissertation Chair: C. R. Bowers

**Amanda Jean Townsend**

Major: *Astronomy*

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

Dissertation Chair: S. S. Eikenberry

**Amanda S. Tritinger**

Major: *Coastal and Oceanographic Engineering*

Dissertation: The Influence of Vertical Current Structure in the Nearshore Region on Open-Coast Wind-Driven Surges

Dissertation Chair: D. Resio

Dissertation Co-chair: M. Olabarrieta Lizaso

**Matthias A. Trujillo-Torres**

Major: *Chemical Engineering*

Dissertation: Fabrication of Nanoporous Templates for Use in Gas Phase Separation. Methods for Achieving near Atomic Dimensions

Dissertation Chair: K. J. Ziegler

Dissertation Co-chair: S. Vasenkov

**Min-Hsuan Tu**

Major: *Business Administration—Management*

Dissertation: Salience of Leader Aspirational Self and Leader Mistreatment

Dissertation Chair: J. Bono

**Amanda Mae Uhl**

Major: *Materials Science and Engineering*

Dissertation: Magnetolectric Composite Nanomaterials for the Stimulation of Neuronal Proliferation and Differentiation

Dissertation Chair: J. Andrew

**Simon Andrew Michael Underhill**

Major: *Physics*

Dissertation: Intracellular Bistable Signal Transduction in *Streptococcus mutans* Competence Regulation

Dissertation Chair: S. J. Hagen

**Marissa Ann Valentine-King**

Major: *Public Health*

Dissertation: Assessing and Addressing Antibiotic Resistance among Mycoplasmas Using a One Health Approach

Dissertation Chair: M. B. Brown

**Anthony Van Duzer**

Major: *Mathematics*

Dissertation: Vertices of Rooted Trees, and Their Distance from the Closest Leaf

Dissertation Chair: M. Bona

**Jose Ignacio Varillas Perez**

Major: *Biomedical Engineering*

Dissertation: Enumeration, Characterization, and Clinical Usage of Circulating Tumor Cells

Dissertation Chair: Z. H. Fan

**María C. Vélez-Climent**

Major: *Plant Pathology*

Dissertation: 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

**Guner Velioglu**

Major: *Business Administration—Finance*

Dissertation: Essays in Financial Economics and Private Information

Dissertation Chair: C. James

**Peter Vertesaljai**

Major: *Chemistry*

Dissertation: New Reactions and Strategies Involving Knoevenagel Adducts

Dissertation Chair: A. J. Grenning

**Aaron G. Victoria**

Major: *Anthropology*

Dissertation: Finding Rhythms in the Road: How Mobilities Become Livelihoods on the Inter-American Highway

Dissertation Chair: R. B. Kernaghan

**Natasha S. Vitek**

Major: *Zoology*

Dissertation: Patterns and Drivers of Within-Species Evolution in the Paleocene-Eocene Fossil Record of Erinaceomorpha

Dissertation Chair: J. I. Bloch

**Alicia K. Vose**

Major: *Rehabilitation Science*

Dissertation: Mechanisms Underlying Laryngeal Vestibule Airway Protection Patterns

Dissertation Chair: I. A. Humbert

**Murali Vuyyuru**

Major: *Agronomy*

Dissertation: Yield Decline Management in Successively Planted Sugarcane on Florida Histosols

Dissertation Chair: H. S. Sandhu

**Ahmed Mohammed Wahba**

Major: *Food and Resource Economics*

Dissertation: Econometric Analysis of World Meat Export Markets, Egyptian Meat Import Demand, and Meat Supply in Egyptian Pre- and Post-Economic Reform

Dissertation Chair: J. L. Seale Jr.

Dissertation Co-chair: J. J. VanSickle

**Sean-Jiun Wang**

Major: *Physics*

Dissertation: Observation of Higgs Boson Decay to Bottom Quarks when Produced in Association with a Weak Vector Boson

Dissertation Chair: J. Konigsberg

Dissertation Co-chair: I. K. Furic

**Wei Wang**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Cancer Risks and Economic Burdens in Hepatitis C Virus-Infected Patients in the Era of Direct-Acting Antivirals

Dissertation Chair: H. Park

**Yu Wang**

Major: *Geography*

Minor: *Statistics*

Dissertation: Evaluating the Effects of Land Surface Conditions on Rainfall Patterns of Modeled Landfalling Tropical Cyclones Using Geospatial Technologies

Dissertation Chair: C. J. Matyas

**Kent J. Warren**

Major: *Mechanical Engineering*

Dissertation: Solar Chemical-Looping Methane Reforming over Ceria

Dissertation Chair: J. Scheffe

**Michael Shenming Wei**

Major: *Chemistry*

Dissertation: Improving the Separation of Drug Isomers Using Chemical Modifiers in High-Field Asymmetric Waveform Ion Mobility Spectrometry

Dissertation Chair: R. A. Yost

**Joseph I. Whitman**

Major: *Economics*

Dissertation: Essays in the Economics of Sports and Trade

Dissertation Chair: J. H. Hamilton

**Ryan Patrick Whittingham**

Major: *Political Science*

Dissertation: Coercion or Accommodation? A Bargaining Theory Explanation of State Repression

Dissertation Chair: M. H. Bernhard

**Tyler John Wildes**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Immunologic Impact of Hematopoietic Stem Cell Transplant and Adoptive Cellular Therapy on Malignant Gliomas

Dissertation Chair: D. Mitchell

**Min Xiao**

Major: *Mass Communication*

Dissertation: Gamification in Branded Mobile Apps: Usage Motivators and Engagement Outcomes

Dissertation Chair: S. M. Chan-Olmsted

**Erin Joy Yafuso**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: The Relationship between Water and Oxygen in Plant Propagation

Dissertation Chair: P. R. Fisher

**Anni Yang**

Major: *Geography*

Minor: *Numerical Epidemiology*

Dissertation: Multi-Scale Modeling of Infectious Zoonoses: Exploring Two Indirectly Transmitted Pathogens in Southwestern Montana

Dissertation Chair: J. K. Blackburn

**Di Yang**

Major: *Geography*

Dissertation: Forest Mosaics: Spatial Forest Management Patterns from Stands to Regional Scales in Southeastern U.S. Coastal Plain and Piedmont

Dissertation Chair: M. W. Binford

**Jiancheng Yang**

Major: *Chemical Engineering*

Dissertation: Wide Band-Gap Semiconductors for High Power Electronic and Bio-Sensing Applications

Dissertation Chair: F. Ren

**Yajing Yang**

Major: *Chemistry*

Dissertation: Study on Fluorescence Quenching, Aggregation and Charge Transfer Properties of Conjugated Polymers

Dissertation Chair: K. S. Schanze

**Tuba Yilmaz**

Major: *Curriculum and Instruction*

Dissertation: Turkish-American Youngsters' Experiences with Boundary Crossing within and across Multiple Discursive Spaces

Dissertation Chair: E. J. De Jong

**Haitao Yu**

Major: *Design, Construction and Planning*

Dissertation: Exploring Temporal and Spatial Ridesourcing Use and Its Relationships to Urban Built Environment

Dissertation Chair: Z. Peng

**Shujian Yu**

Major: *Electrical and Computer Engineering*

Minor: *Statistics*

Dissertation: The Analysis of Machine Learning Algorithms from Information Theoretic Perspective

Dissertation Chair: J. C. Principe

**Carlos Andres Zambrano Vaca**

Major: *Horticultural Sciences*

Dissertation: Determining Water Requirements for Low-Chill Peaches in Subtropical Humid Conditions

Dissertation Chair: L. Zotarelli

Dissertation Co-chair: K. W. Migliaccio

**Maria Isabel Zamora Re**

Major: *Agricultural and Biological Engineering*

Dissertation: Irrigation and Nitrogen Best Management Practices in Corn Production

Dissertation Chair: M. D. Dukes

**Huan Zhang**

Major: *Electrical and Computer Engineering*

Dissertation: Conducted EMI Mitigation Associated with Capacitive and Inductive Coupling of the Magnetic Components in Power Electronics

Dissertation Chair: S. Wang

**Peter L. Zhang**

Major: *Aerospace Engineering*

Dissertation: Characterization of Digitized Heat Transfer, Moving Contact Line Vorticity, and the Moving Contact Line Force

Dissertation Chair: K. Mohseni

**Yunlu Zhang**

Major: *Chemistry*

Dissertation: Plasmonic Mediated Growth of Functional Materials for Enhanced Photocatalysis

Dissertation Chair: W. Wei

**Ye Zhou**

Major: *Medical Sciences—Neuroscience*

Dissertation: PMP22 Modulates Cholesterol Trafficking and Lipid Metabolism: The Implication for PMP22-Associated Peripheral Neuropathies

Dissertation Chair: L. Notterpek

**Yun Zhu**

Major: *Epidemiology*

Dissertation: Molecular Mechanisms Underlying Depression: A Multi-omics Approach

Dissertation Chair: J. Zhao

**David Paul Zwick**

Major: *Mechanical Engineering*

Dissertation: Scalable Highly-Resolved Euler-Lagrange Multiphase Flow Simulation with Applications to Shock Tubes

Dissertation Chair: S. Balachandar

# DOCTOR OF EDUCATION

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## **Sharon Patricia Lutz**

Major: *Special Education*

Dissertation: *The Role of Learning Specialists in NCAA Division I Institutions*

Dissertation Chair: H. B. Lane

## **Susan E. Macchia**

Major: *Educational Leadership*

Dissertation: *Analysis of a Public Policy as an Intervention Strategy*

Dissertation Chair: R. C. Wood

Dissertation Co-chair: L. B. Eldridge

## **Cynthia Zainab Okoe**

Major: *Higher Education Administration*

Dissertation: *Examining the Effects of Florida's Community College Baccalaureate Legislation on Baccalaureate Production in the State University System of Florida*

Dissertation Chair: D. A. Kramer

## **Joseph James Pickering**

Major: *Higher Education Administration*

Dissertation: *The Impact of Concealed Carry Legislation on Texas Universities and Colleges Campus Leaders and Law Enforcement Perspectives*

Dissertation Chair: K. D. Peck Parrott

## **Kenneth Allen Savage**

Major: *Educational Leadership*

Dissertation: *The Price of Excellence: Student Learning Outcomes from Alternative Compensation Models that Feature Substantial Starting Salaries for Teachers*

Dissertation Chair: R. C. Wood

## **Virginia L. Stewart**

Major: *Higher Education Administration*

Dissertation: *A Case Study of Campus IT's Role in Adoption of Technology at a Private University*

Dissertation Chair: D. F. Campbell



## DOCTOR OF AUDIOLOGY

Hyuna Bae  
Kjersten Branscome  
Julia Cathryn D'Amico  
Jaivikas Hiriyanna Gowda  
Leslie Fisch Halpern  
Debra L. Hildebrand  
Megan Geneva Hill

Jonathan E. Hirst  
Heather L. Holdridge-Collins  
Traci K. Long  
John Lowe Massey  
Christine McHugh Sheehan  
Keri L. Oppenheimer

Cynthia Quintana  
Brandie M. Smith  
Mary Alise Swantek  
Anne P. Teixeira  
Mercy Melinda Vega  
Rachel Ann Waite

## DOCTOR OF BUSINESS ADMINISTRATION

Jared James Pressell

## DOCTOR OF NURSING PRACTICE

Holly Lynn Adams  
Chelsea Leigh Anglin  
Ulyana Arzamasova  
Erika Laine Baker  
Brieanna Marie Blumenstein  
Joel Daniel Boling  
Elenora L. Bosman  
Rachel Marie Botella  
Kathryn D. Braddock  
Heather A. Brigance  
Lourdes Juliyana Britto  
Shannon Kathleen Burns  
Gloria Calderon  
Alexandra C. Coad  
Samuel W. Dunlop  
Katelyn M. Einck  
Ami Anne Grek  
Jessica Jawidzik

Meagan Elizabeth Johnson  
Katelyn Lian Lumlock Juarez  
Joseph G. Kelly  
Megan E. Klyczek-Lawn  
Brittany Blanton Knight  
Patricia C. Lewis  
Sydney Nicole McInnis  
Alyssa Dianne McPherson  
Anjali Umesh Mhatre  
Chelsea N. Michaels  
Naomi Jessica Mostkoff  
Anna Christine Napoli  
Erica Lynne Ochoa  
Marcella Patino  
Sarah Holmes Peacock  
Jessica Naomi Pelkowski  
James Luel Poole IV  
Kristina Ashley Pound Butler

Richelle Alyssa Ricer  
Evany Rodriguez  
Emily Rose Rogers  
Corinne Marie Ryan  
Leah Anne Sadler  
Kelly Murphy Salinas  
Abby Bertholf Sapp  
Devon L. Sarvary  
Hillary Lindsay Simpson  
Karen Smiley  
Kimberly Francis Steele  
Michael Allan Thompson  
Nicole A. Thompson-Bowie  
Hector Ivan Torres Negron  
Ariel Ashley Vulgamore  
Natalie Watt  
Janine Lanelle White-Williams  
Anastasia J. Whitman

## DOCTOR OF PHYSICAL THERAPY

Glenn Taylor Anderson  
Katherine Julianna Batchelor  
Devika M. Bellamy  
Khushboo D. Bhakta  
Jake Caltrider  
Christopher M. Cheek  
William Travis Collins  
Alexandra Nicole Colón  
Ashley C. Dew  
Kaitlyn R. Elliott  
Kim Alexis Fasano  
Christopher E. Fuller  
Meredith C. Gardner  
Hanna L. Gierman  
Erin Marie Ginn  
Joshua D. Hare  
Elizabeth T. Haumschild  
Ashlyn B. Hawk  
Maria J. Hierholzer  
Abigail R. Immerfall  
Marco Antonio Italia  
Camille S. Jamshidi

Chantelle Alexis Jerald  
Marie A. Kamrath  
Spencer E. Kasmere  
Benjamin Kyle Knight  
Mark J. Kunselman  
Grace Ellen Kupiszewski  
Amber Ellen Lanier  
Aristides Luis Lima  
Christopher D. Marshall  
Savanna Holley McDowell  
Jessica Elizabeth Oram  
Kamryn Denae Pedersen-Buck  
Andrea C. Peña  
Noella M. Puwol  
Jorge Reinaldo Ramirez  
Jenae Annette Rankin  
Emma Julia Regenbaum  
Jacob Patrick Reidy  
Caroline M. Salam  
Gabriela Y. Sanchez  
Taylor J. Sansone

Tania M. Schmitfranz  
Katherine E. Sensale  
Sarah Renee Simmons  
Matthew J. Smith  
Alexandra Mary Stanojev  
Jeremy A. Steiner  
Rachel Stephenson  
Courtney E. Stone  
Gillian Lee Sweet  
Emily R. Tyler  
Monica R. Velasco  
Tyler Michael Walker  
Melissa Gwen Warnock  
Kathryn Shelby Wells  
Rebecca A. Wheeler  
Kelly C. White  
Katherine A. Wills  
Heebuhm E. Yang  
Ariana S. Zanganeh  
Kelly N. Zaprzal  
Brett Spencer Zebelian

## DOCTOR OF PLANT MEDICINE

Ploy Kurdmongkoltham

Ariane Burke McCorquodale

Cory James Penca





## Chain of Office

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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

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 permanent home mailing address in July 2019.

## 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**