

# Commencement

**UF** | UNIVERSITY *of*  
FLORIDA



Commencement  
SPRING 2017

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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 2017.

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 advisor, 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 on 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 benefited 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 12th president of the University of Florida in January 2015. Under President Fuchs' leadership, the university has developed shared goals for the decade ahead. UF's overarching aspiration is to be a premier comprehensive university that the state, nation and world look to for leadership.

President Fuchs came to UF from Cornell University, where he served as provost. He also served as dean of the Cornell College of Engineering. Before that, he was the head of the School of Electrical and Computer Engineering at Purdue University and a professor in the Department of Electrical and Computer Engineering and the Coordinated Science Laboratory at the University of Illinois. President Fuchs 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. He earned his doctoral degree in electrical engineering from



the University of Illinois. He holds a master's degree in divinity from Trinity Evangelical Divinity School and a bachelor's degree from Duke University.

# University of Florida Leadership

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## State Board of Education

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**Pam Stewart**

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**Patricia Frost**

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**H. Wayne Huizenga Jr.**

**Darlene L. Jordan**

**Sydney Kitson**

**Alan Levine**

**Wendy Link**

**Edward Morton**

**Norman D. Tripp**

**Gary Tyson**

**Fernando J. Valverde**

## University of Florida Board of Trustees

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**Robert G. Stern**

**David M. Thomas**

**Susan Webster**

**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*

**David S. Guzick, M.D.**

*Senior Vice President - Health Affairs*

**Jack Payne, Ph.D.**

*Senior Vice President - Agriculture and Natural Resources*

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

*Senior Vice President and Chief Operating Officer - Administration*

**Jane Adams, B.S.**

*Vice President - University Relations*

**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*

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

*Vice President and Chief Financial Officer - Finance*

**Jodi Gentry, M.A.**

*Vice President - Human Resource Services*

**Jamie Lewis Keith, J.D.**

*Vice President - General Counsel*

**David Parrott, Ed.D.**

*Vice President - Student Affairs*

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

*Vice President - Advancement*

**David Norton, Ph.D.**

*Vice President - Research*

**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*

**Lucinda Lavelli, 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*

**Jacqueline Burns, 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*

**Michael L. Good, M.D.**

*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*

**Jen Day Shaw, Ph.D.**

*Dean of Students*

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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.



2017 SPRING  
COMMENCEMENT

## COMMENCEMENT AGENDA – FRIDAY, APRIL 28, 2:00 p.m.

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Presiding	W. Kent Fuchs <i>President</i>
Processional	Gainesville Brass Quintet
National Anthem	Ron Burrichter Gainesville Brass Quintet
Welcome	W. Kent Fuchs
Introductions	Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i>
Awarding of Honorary Degrees Presented by	Joseph Glover W. Kent Fuchs
Doctor of Music Presented to	Libby Larsen <i>Minneapolis, Minnesota</i>
Doctor of Humane Letters Presented to	Eric S. Maskin <i>Cambridge, Massachusetts</i>
Commencement Address	Archie "Chip" Birkner <i>UF Assistant Professor of Music</i>
Presenting Candidates for Doctoral Degrees	Joseph Glover
Conferring of Doctoral Degrees	W. Kent Fuchs
Individual Recognition of Graduates	
Closing Remarks	W. Kent Fuchs
Alma Mater	Ron Burrichter Gainesville Brass Quintet
Recessional	Gainesville Brass Quintet
Postlude	Gainesville Brass Quintet



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ADDITIONAL COPIES of this commencement program are available while supplies last at the University of Florida 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 bookstore is located in the UF Bookstore and Welcome Center on Museum Road and is open daily. For hours, please see the website at [www.bsd.ufl.edu/bookstore](http://www.bsd.ufl.edu/bookstore). The commencement program can be ordered online with an additional charge for shipping and handling.

THE UNIVERSITY OF FLORIDA encourages you to add #UFGrad to your commencement-related conversations and images on social media. Select tweets will be featured on the video boards prior to and after the ceremony.



# Honorary Degree – Doctor of Music

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## Libby Larsen

***“Music exists in an infinity of sound. I think of all music as existing in the substance of the air itself. It is the composer’s task to order and make sense of sound, in time and space, to communicate something about being alive through music.”***

– Libby Larsen

Libby Larsen is one of America’s most prolific and most performed living composers. She has created a catalogue of more than 500 works, spanning virtually every genre from intimate vocal and chamber music, to massive orchestral works and 16 operas. Her music has been praised for its dynamic, deeply inspired and vigorous contemporary American spirit. Constantly sought after for commissions and premieres by major artists, ensembles and orchestras around the world, Ms. Larsen has established a permanent place for her works in the concert repertory.

USA Today hailed Ms. Larsen as “the only English-speaking composer since Benjamin Britten who matches great verse with fine music so intelligently and expressively.” Gramophone referred to her as “a composer who has made the art of symphonic writing very much her own,” and Times Union has called her “a mistress of orchestration.” She has been noted for “assembling one of the most impressive bodies of music of our time” by Hartford Courant. The Philadelphia Inquirer praised her music for its “clear textures, easily absorbed rhythms and appealing melodic contours that make singing seem the most natural expression imaginable.”

The Wall Street Journal noted that “Libby Larsen has come up with a way to make contemporary opera both musically current and accessible to the average audience,” and Fanfare acclaimed, “Her ability to write memorable new music completely within the confines of traditional harmonic language is most impressive.”

Ms. Larsen has received numerous awards and accolades, including a 1993 Grammy as producer of the CD “The Art of Arlene Augér,” an acclaimed recording that features Larsen’s “Sonnets from



the Portuguese.” Her opera “Frankenstein, The Modern Prometheus” was selected as one of the eight best classical music events of 1990 by USA Today. The first woman to serve as a resident composer with a major orchestra, she has held residencies with the California Institute of the Arts, the Arnold Schoenberg Institute, the Philadelphia School of the Arts, the Cincinnati Conservatory, the Minnesota Orchestra, the Charlotte Symphony and the Colorado Symphony. Ms. Larsen’s many commissions and recordings are a testament to her fruitful collaborations with a long list of world-renowned artists, including The King’s Singers, Benita Valente and Frederica von Stade, among others. Her works are widely recorded on such labels as Angel/EMI, Nonesuch, Decca and Koch International.

As a vigorous, articulate champion of the music and musicians of our time, Ms. Larsen is a past holder of the Harissios Papamarkou Chair in Education and Technology at the Library of Congress and a recipient of the Eugene McDermott Award in the Arts from the Massachusetts Institute of Technology. She also received a Lifetime Achievement Award from the American Academy of Arts and Letters, the George Peabody Medal, the Frederick Lowe Medal for American Music and the McKnight Distinguished Artist Award. In 1973, she co-founded the Minnesota Composers Forum, now the American Composers Forum, which has been an invaluable advocate for composers in a difficult, transitional time for American arts.



# Honorary Degree – Doctor of Humane Letters

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## Eric S. Maskin

Eric Maskin is the Adams University professor at Harvard University. He received the 2007 Nobel Memorial Prize in Economics (with L. Hurwicz and R. Myerson) for laying the foundations of mechanism design theory. He has made contributions to game theory, contract theory, social choice theory, political economy and other areas of economics.

He received his bachelor's degree and doctorate from Harvard and was a postdoctoral fellow at Jesus College, Cambridge University. Dr. Maskin was a faculty member at the Massachusetts Institute of Technology from 1977 to 1984, Harvard from 1985 to 2000 and the Institute for Advanced Study from 2000 to 2011. He rejoined Harvard's faculty in 2012.

Dr. Maskin is a member of the National Academy of Sciences and a fellow of the Econometric Society, the American Academy of Arts and Sciences, the British Academy, the European Economic Association, the Royal Spanish Academy of Economics and Finance, the Society for Economic Measurement and the Society for the Advancement of Economic Theory. He is an honorary fellow of St John's and Jesus Colleges at Cambridge University and the Royal European Academy of Doctors. He is an honorary professor of seven universities and the recipient of 12 honorary doctorates. Among other prizes, he has received the Kempe Award in environmental economics (with P. Dasgupta), EFR-Business Week Award, Grande Médaille from both the cities of Marseille and Toulouse, Harvard Centennial Medal, Cristóbal Gabarrón Foundation International Award in Economics, Louise Blouin Foundation Award, Jean-Jacques Laffont Prize and the James Joyce Award.

He has served as editor of the Quarterly Journal of Economics, Economics Letters, the Economic Theory Monograph Series (World Scientific Publishing) and as an associate or advisory editor of several other journals. He is on the board of trustees for the J.S. Guggenheim Foundation and on advisory boards for the Higher School of Economics (Moscow), the



Center for Rationality (Hebrew University), the Solvay School of Economics (Free University of Brussels), the Toulouse School of Economics, the Tsinghua School of Economics and Management (Tsinghua University) and the World Bank. He is a past president of the Econometric Society and the Game Theory Society and vice president of the Society for the Advancement of Economic Theory. He is the director of the Jerusalem Summer School in Economic Theory.

# Commencement Speaker

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## Archie "Chip" Birkner

Chip Birkner currently serves as assistant professor of music and assistant director of bands at the University of Florida, where he directs the University Concert Bands, Gator Pep Bands, and is associate director of the Pride of the Sunshine Marching Band. Additionally, he teaches courses in conducting and music education, as well as observing student teachers in the UF School of Music. Prior to his appointment at UF, Dr. Birkner taught in the Texas public schools in The Woodlands, Tomball, and La Porte.

He received his Bachelor of Music Education with Performer's Certificate, Master of Music in Percussion Performance, and Ph.D. in Music Education/Instrumental Conducting from the University of Florida.

Dr. Birkner has conducted ensembles across the United States, Italy, Brazil and England. He is an active percussionist, currently serving as principal timpanist with the Ocala Symphony Orchestra and as a member of the percussion trio Vaya Con Trios. He remains active as a guest conductor, performer and clinician throughout



the southeastern United States. His professional affiliations include the Collegiate Band Directors Association, Florida Music Educators Association, Florida Bandmasters Association and Phi Mu Alpha Professional Music Fraternity. In addition, Dr. Birkner holds honorary memberships in Kappa Kappa Psi and Tau Beta Sigma. When not teaching or performing, he enjoys spending time with his beautiful wife and daughters, and cheering on his beloved Gators!





# UF GRADUATE SCHOOL

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The reputation of a research university is, in large part, measured by the excellence of its graduate faculty and graduate students. The University of Florida's graduate faculty and graduate students help to push the boundaries of research, develop the technologies of the future, improve the health of our citizenry, reshape our social and economic culture, expand scholarship, and create beauty in many forms.



## **Doctor of Philosophy**

The Doctor of Philosophy degree was established in the late 19<sup>th</sup> century as the highest earned degree in American graduate schools. This degree program, which stresses competence in research, awards the credential most commonly held by college professors and researchers. Although requirements of the doctorate vary from one institution to another, certain prerequisites are typical: coursework, a qualifying examination, an approved dissertation and a final examination. Doctoral students work closely with a major professor who serves as an advisor, mentor, critic, confidant and promoter.

## **Doctor of Education**

The Doctor of Education degree was introduced at the University of Florida in the mid-1940s. This degree is conferred in recognition of the development of sound scholarship in professional education and closely related fields, and demonstrated ability to apply that knowledge as an administrator, supervisor or teacher. Requirements vary by discipline but generally include coursework, a qualifying examination, the completion of a dissertation and final examinations. Students are mentored by a major professor and supported by a supervisory committee comprising members of the graduate faculty.

## **Doctor of Audiology**

The Doctor of Audiology degree was first awarded to students at the University of Florida in 2000. This degree is the highest university award given in this field in recognition of completion of academic preparation for the clinical practice of audiology. The degree requires four years of study beyond the bachelor's degree, including academic coursework, supervised clinical experiences, yearly academic and clinical evaluation by the faculty, and a final examination.

## **Doctor of Plant Medicine**

The Doctor of Plant Medicine degree was established at the University of Florida in 1999 to provide all segments of agriculture with rapid, accurate and scientifically sound diagnoses and management strategies for all types of plant health problems. This multidisciplinary program consists of courses and practical training in all relevant departments. Students are trained in the science, practice and business of the profession of plant medicine and complete coursework and written and oral comprehensive examinations.

## **Doctor of Physical Therapy**

The Doctor of Physical Therapy degree is a professional doctoral program that prepares graduates to become entry-level physical therapists and was established at the University of Florida in 2005. The degree requires three years of coursework and clinical practicum beyond the bachelor's degree. Completion of the program enables graduates to sit for the licensure examination to practice physical therapy.

## **Doctor of Nursing Practice**

The Doctor of Nursing Practice degree is a professional doctoral program that began admitting students in 2006 at the University of Florida. The degree prepares advanced practice nurses with the knowledge, skills and abilities needed in today's complex health care environment. It produces advanced-practice nurses with educational background comparable to health care practitioners in other fields.

# 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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### **Muna Jamil Abbas**

Major: *Agricultural and Biological Engineering*

Dissertation: Monitoring and Mapping Asian Citrus Psyllid Using Shaking Machine

Dissertation Chair: R. J. Ehsani

### **Kendall Danielle Ackley**

Major: *Physics*

Dissertation: A Realistic End-to-End Analysis: An Optimized Procedure for Finding Elusive Electromagnetic Counterparts to Gravitational Wave Candidates

Dissertation Chair: S. S. Eikenberry

Dissertation Co-chair: S. G. Klimenko

### **Francis Scott Adams**

Major: *Mathematics*

Dissertation: Anticliques in Borel Graphs on Polish Spaces and Computable Ultrahomogeneous Structures

Dissertation Chair: J. Zapletal

### **Olajuyigbe A. Adebayo**

Major: *Chemistry*

Dissertation: Syntheses and Properties of Molecular Manganese and Cobalt Oxo Clusters

Dissertation Chair: G. Christou

### **Robert Anthony Agnese**

Major: *Physics*

Dissertation: Simulating the SuperCDMS Dark Matter Detector Response and Readout

Dissertation Chair: T. Saab

### **Bahroz Muhammed Saleh Ahmed**

Major: *Animal Sciences*

Dissertation: Elevated In Utero Temperature: A Suppressor of Fetal Development and Ruminant Fitness?

Dissertation Chair: G. E. Dahl

### **Shihyun Ahn**

Major: *Chemical Engineering*

Dissertation: Effect of Irradiation Damage on GaN-Based Metal Oxide Semiconductor High Electron Mobility Transistors and Beta-Ga<sub>2</sub>O<sub>3</sub>

Dissertation Chair: F. Ren

### **Mohammad Ahsanul Akbar**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: The Evaluation of Alpha-1 Antitrypsin Protein, Gene, and Stem Cell-Based Therapies in Animal Models of Osteoporosis

Dissertation Chair: S. Song

### **Fatma H. Al-Awadhi**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Discovery of Novel Natural Products from Marine Cyanobacteria: Isolation, Structure Determination and Biological Evaluation

Dissertation Chair: H. Luesch

**Christopher Lewis Alexander**

Major: *Chemical Engineering*

Dissertation: Impedance Spectroscopy: The Influence of Surface Heterogeneity and Application to Corrosion Monitoring of Bridge Tendons

Dissertation Chair: M. E. Orazem

**Sarah Elizabeth Allen**

Major: *Botany*

Dissertation: The Uppermost Early Eocene Blue Rim Flora from the Bridger Formation of Southwestern Wyoming: Floristic Composition, Paleoclimate, and Paleoecology

Dissertation Chair: S. R. Manchester

**Fatima Murad Almazam**

Major: *Educational Leadership*

Dissertation: Mentoring New School Principals: Perceptions of New and Experienced School Principals in the Emirate of Abu Dhabi, United Arab Emirates

Dissertation Chair: B. Oliver

Dissertation Co-chair: L. B. Eldridge

**Alice Alonso**

Major: *Agricultural and Biological Engineering*

Dissertation: Novel Quantification of Long-Term Hydrological and Landscape Spatiotemporal Dynamics of Coupled Natural Human Systems: The Case Study of the Tempisque-Palo Verde National Park Coastal Wetland, Costa Rica

Dissertation Chair: R. Munoz-Carpena

**Christopher Logan Anderson**

Major: *Biomedical Engineering*

Dissertation: An Evaluation of Effectiveness of Cannabidiol as an Antiepileptic Drug for Children with Intractable Generalized Epilepsy

Dissertation Chair: B. K. Ormerod

Dissertation Co-chair: P. R. Carney

**Jeremy J. Anderson**

Major: *Electrical and Computer Engineering*

Dissertation: A Long-Term Average Cepstral Enhancement Technique to Improve Single Microphone Automatic Speech Recognition

Dissertation Chair: J. G. Harris

**Deborah J. Andrews**

Major: *Anthropology*

Dissertation: There's Something about Quinoa: Small-Scale Andean Farmers, Agrodiversity and the Globalization of the Market

Dissertation Chair: M. C. Schmink

Dissertation Co-chair: C. McCarty

**Andrew C. Antony**

Major: *Materials Science and Engineering*

Dissertation: Development of Interatomic Potentials with Applications to Nanoscale Surface Science

Dissertation Chair: S. B. Sinnott

Dissertation Co-chair: S. R. Phillpot

**Thomas Elliott Arnold**

Major: *Geology*

Dissertation: Reconstructing Subtropical Lacustrine Environments from the Late Pleistocene to the Present

Dissertation Chair: M. Brenner

**Alex Paul Arp**

Major: *Entomology and Nematology*

Dissertation: Characterizing the Innate Immune System of the Asian Citrus Psyllid, *Diaphorina citri*

Dissertation Chair: K. S. Stelinski

**Michael William Ashton**

Major: *Materials Science and Engineering*

Dissertation: Computational Methods for the Discovery and Characterization of Two-Dimensional Materials

Dissertation Chair: S. B. Sinnott

**Jorge Jair Avila Santamaria**

Major: *Food and Resource Economics*

Dissertation: Intra-Household Bargaining Power in Agriculture and Production Planning in Southern Colombia and Northern Ecuador

Dissertation Chair: M. D. Useche

**Muharrem Ayar**

Major: *Electrical and Computer Engineering*

Dissertation: Enhancing Smart Grid Transient Stability Through Robust Nonlinear Controller Design

Dissertation Chair: H. A. Latchman

Dissertation Co-chair: J. Y. McNair

**Oumar Ba**

Major: *Political Science*

Dissertation: Outsourcing Justice: Africa and the Politics of the International Criminal Court

Dissertation Chair: A. A. Hozic

**James Andrew Babcock**

Major: *Music*

Dissertation: Hypervocality: Voice, Timbre, and Embodiment in the Digital Age

Dissertation Chair: P. C. Koonce

**Caitlin Baird**

Major: *Anthropology*

Dissertation: The Shape of a Child: Chronic Malnutrition and the Cycle of Poverty in Sololá, Guatemala

Dissertation Chair: R. B. Kernaghan

**Ibraheem Khamis Bamaga**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Craniofacial Deformity and Malocclusion in a Mouse Model of Neurofibromatosis Type I (NF1)

Dissertation Chair: K. McHugh

**Melissa Inez Bamba**

Major: *Sociology*

Dissertation: Between the Devil and the Deep Blue Sea: Barack Obama and the Seductions and Anxieties of Conservative Political Talk Radio

Dissertation Chair: M. Ardel

**Yanmin Bao**

Major: *Linguistics*

Dissertation: The Acquisition of Sociolinguistic Variation: Effects of a Short-Term Study Abroad Sojourn on Second Language Learners of Chinese

Dissertation Chair: H. Blondeau

**Casey Anderson Barnard**

Major: *Mechanical Engineering*

Dissertation: A Sensor System for Vector Measurement of Aerodynamic Wall Shear Stress

Dissertation Chair: M. Sheplak

**Brendan Aurelius Barraclough**

Major: *Biomedical Engineering*

Dissertation: Improving Dosimetric and Delivery Accuracy of Lung and Liver Stereotactic Body Radiotherapy

Dissertation Chair: G. Yan

**Izabella Lipnharski Barreto**

Major: *Biomedical Engineering*

Dissertation: Measuring Organ Doses and Assessing Clinical Image Quality for the Purpose of Computed Tomography Protocol Optimization

Dissertation Chair: M. M. Arreola

**Renan Barroso Ferreira**

Major: *Chemistry*

Dissertation: Part 1. Benzotrifuran (BTFuran): A Building Block for Pi-Conjugated Systems; Part 2. Disulfide-Bond Disrupting Agents (DDAs) for Anticancer Therapy

Dissertation Chair: R. K. Castellano

**Yanina Becco**

Major: *Romance Languages—Spanish*

Dissertation: Dictadura, memoria y trauma: El teatro como experiencia de identidad colectiva y de resistencia en Argentina y Espana durante la dictadura y la posdictadura

Dissertation Chair: L. Alvarez-Castro

**Lina Benabdallah**

Major: *Political Science*

Dissertation: Relational Power in IR: Case of Chinese Investments in Human Resource Development in Africa

Dissertation Chair: B. Arfi

**Amanda J. Beyer-Purvis**

Major: *History*

Dissertation: "Equal Rights, Which Equal Law Must Protect": Legal Challenges to Southern Segregationist Schools and Theological Racism in the South

Dissertation Chair: E. R. Dale

**Christopher Ryan Billman**

Major: *Physics*

Dissertation: Atomistic and Electronic Modeling of Oxides

Dissertation Chair: H. P. Cheng

**Rebecca Kay Borchering**

Major: *Mathematics*

Dissertation: Population Thresholds and Disease Ecology

Dissertation Chair: S. McKinley

Dissertation Co-chair: J. Pulliam

**Aaron Keith Brauner**

Major: *Business Administration—Finance*

Dissertation: Essays in International Corporate Capital Structure

Dissertation Chair: A. Naranjo

**Maeve Amanda Kubik Budi**

Major: *Materials Science and Engineering*

Dissertation: The Role of Phase Connectivity in Multiferroic Ceramic Nanomaterials

Dissertation Chair: J. Andrew

**Matthew Alexander Burgess**

Major: *Wildlife Ecology and Conservation*

Dissertation: Small Unmanned Aircraft Systems and Their Payloads as Aerial Data Collection Platforms for Natural Resource-Based Applications

Dissertation Chair: H. F. Percival

**Dawn Renee Calibeo**

Major: *Entomology and Nematology*

Dissertation: An Integrated Pest Management Strategy for *Nylanderia fulva* in Florida

Dissertation Chair: F. M. Oi



**Shiyun Cao**

Major: *Microbiology and Cell Science*

Dissertation: Archaeal JAMM/MPN+ Metalloproteases Structure and Function

Dissertation Chair: J. A. Maupin

**Zheng Cao**

Major: *Electrical and Computer Engineering*

Dissertation: Information Theoretic Learning Based Marine Animal Imagery Classification

Dissertation Chair: J. C. Principe

**Mia LaShaye Carey**

Major: *Anthropology*

Dissertation: How Religion Preserved the Man: Exploring the Legacy of African Islam Through the Yarrow Mamout (ca. 1736-1823) Archaeology Project

Dissertation Chair: S. D. deFrance

**Marlon Edgardo Carranza Zelaya**

Major: *Anthropology*

Dissertation: Homicide, Culture, and the Post-Coup Situation in Northwestern Honduras

Dissertation Chair: R. B. Kernaghan

**Ewaldo Eder Carvalho Santana Jr.**

Major: *Electrical and Computer Engineering*

Dissertation: A Framework for Pattern Consolidation in Cognitive Architectures

Dissertation Chair: J. C. Principe

**Jessica J. Cash**

Major: *Chemistry*

Dissertation: Self-Healing and Vitrimeric Polymers Based on Dynamic-Covalent Boronic Esters

Dissertation Chair: B. S. Sumerlin

**Subit Chakrabarti**

Major: *Electrical and Computer Engineering*

Dissertation: Machine Learning Algorithms for Spatio-Temporal Scaling of Remotely Sensed Data

Dissertation Chair: J. Judge

Dissertation Co-chair: J. C. Principe

**Seungwoo J. Chang**

Major: *Agricultural and Biological Engineering*

Dissertation: Quantifying the Relative Uncertainties of Changes in Climate, and Water Demand to Understand Risk and Increase Resilience in Water Supply Planning

Dissertation Chair: W. D. Graham

Dissertation Co-chair: C. J. Martinez

**Marc W. Charbel**

Major: *Biomedical Engineering*

Dissertation: Identification of a Biomarker for Clinical Status and Prognosis of Hypoxic-Ischemic Neonates

Dissertation Chair: R. Sitaram

Dissertation Co-chair: A. Gunduz

**Lauren N. Cheek**

Major: *Anthropology*

Dissertation: Remembering and Forgetting in a Transnational Network Creating Memory and Identity in Former Yugoslavs in South Florida

Dissertation Chair: A. Kane

Dissertation Co-chair: M. M. Stoilkova

**Xulin Chen**

Major: *Entomology and Nematology*

Dissertation: Improving the Efficiency of Mass Rearing *Tamarixia radaita* (Hymenoptera: Eulophidae) Based on Behavioral Aspects of the Functional Response, Host Marking, and Endosymbiont Detection

Dissertation Chair: P. A. Stansly

**Zhibin Chen**

Major: *Civil Engineering*

Dissertation: Analysis, Design, and Simulation of Advanced Parking Management Systems

Dissertation Chair: Y. Yin

**Christopher W. Cheung**

Major: *Counseling and Counselor Education*

Dissertation: East Meets West: Developing a Bicultural Identity In East Asian American Youth

Dissertation Chair: J. M. Swank

**Natalie E. Chichetto**

Major: *Epidemiology*

Dissertation: Alcohol Consumption Among Persons Living with HIV: Patterns and Determinants of Use and Impact on Subclinical Cardiovascular Disease

Dissertation Chair: R. L. Cook

**Laura Chilcoat**

Major: *English*

Dissertation: The New Woman's Queer Agenda: The Rejection of Heteronormativity in New Women Fiction of the 1890s

Dissertation Chair: C. G. Snodgrass

**Kwansun Cho**

Major: *Electrical and Computer Engineering*

Minor: *Communication Sciences and Disorders*

Dissertation: START4K: A Computer Assisted Pronunciation Training System

Dissertation Chair: J. G. Harris

**Nari Choi**

Major: *Special Education*

Dissertation: Perceptions of Korean Special Education Teachers regarding the Importance and Extent of Administrative Support

Dissertation Chair: J. B. Crockett

**Peayush Kumar Choubey**

Major: *Physics*

Dissertation: Theoretical Visualization of Atomic-Scale Phenomena in Inhomogeneous Superconductors

Dissertation Chair: P. J. Hirschfeld

**Devesh Chugh**

Major: *Mechanical Engineering*

Dissertation: Development and Analysis of Open Absorption Cycle Based Combined Water Heater and Dehumidifier

Dissertation Chair: S. Moghaddam

**Taylor Benjamin Clem**

Major: *Horticultural Sciences—Environmental Horticulture*

Dissertation: Anticipating Environmental Behavior Change: Evaluating Values-Beliefs-Norms Theory as Means of Measuring Pro-Environmental Behavior Change for Florida-Friendly Landscaping Extension Programs

Dissertation Chair: G. M. Hansen De Chapman

**Zachary Harren Cohle**

Major: *Economics*

Dissertation: The Offshoring of Innovative Research and Development to the Developing World

Dissertation Chair: E. Dinopoulos

**Andrew Cordar**

Major: *Computer Science*

Dissertation: Using Mixed Reality Humans to Improve Communication Skills

Dissertation Chair: B. Lok

**John R. Corring**

Major: *Computer Engineering*

Dissertation: A Complex-Valued Field Model for Shape Representation with Applications in Computer Vision and Graphics

Dissertation Chair: A. Rangarajan

**Ana Caroline Costa Sa**

Major: *Genetics and Genomics*

Dissertation: Transcriptomics: Advancing Hypertension Pharmacogenomics

Dissertation Chair: J. A. Johnson

**Holly S. Cowart**

Major: *Mass Communication*

Dissertation: What to Think About: The Applicability of Agenda-Setting in a Social Media Context

Dissertation Chair: K. B. Walsh-Childers

**Anne Elise Creamer**

Major: *Agricultural and Biological Engineering*

Dissertation: Carbon Dioxide Capture with Pyrogenic Carbon

Dissertation Chair: B. Gao

**Hannah Renee Crooke**

Major: *Epidemiology*

Dissertation: Cannabis Use and Coronary Disease

Dissertation Chair: C. L. Striley

**Christopher Michael Cyr**

Major: *Mathematics*

Dissertation: On S-Semipermutable Subgroups of Simple Groups

Dissertation Chair: A. Turull

**Nasiru Mohammed Danmowa**

Major: *Soil and Water Science*

Dissertation: Fate and Transport of Nitrogen Forms, Phosphorus and Pesticides in Soils from Florida and Nigeria

Dissertation Chair: P. Nkedi-Kizza

Dissertation Co-chair: J. W. Jawitz

**Brian M. Davis**

Major: *Mechanical Engineering*

Minor: *Materials Science and Engineering*

Dissertation: Study of the Dynamic Material Behavior and Its Correlation to the Chip Formation Mechanism and Chip Morphology During Machining

Dissertation Chair: Y. Huang

**Robert Otto Davis**

Major: *Curriculum and Instruction*

Dissertation: The Impact of Animated Pedagogical Agent Gestures on Agent Social Acceptance and the Retention and Transfer of Grammar with Elementary School Foreign Language Students

Dissertation Chair: P. Antonenko

**Stella de Almeida Gonsales**

Major: *Chemistry*

Dissertation: Tungsten Alkylidenes and Alkylidyne: From "Wittig" Reactions to the Synthesis of Cyclic Polymers

Dissertation Chair: A. S. Veige

### **Leticia Del-Penho Sinedino**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Effects of Dietary Polyunsaturated Fatty Acids on Rumen Biohydrogenation, Performance, and Reproduction in Dairy Cows

Dissertation Chair: J. E. Santos

### **Nguyet Thi Minh Doan**

Major: *Agricultural and Biological Engineering*

Dissertation: Assessing and Enhancing Methane Productivity from Anaerobic Digestion Using *Cyanothece* BG0011 as Feedstock

Dissertation Chair: P. C. Pullammanappallil

Dissertation Co-chair: S. A. Svoronos

### **Maxim Sergeevich Dolinsky**

Major: *Business Administration—Finance*

Dissertation: Corporate Financial Leverage: Firm vs. Industry Effects

Dissertation Chair: A. Naranjo

### **Mark Calvin Donop**

Major: *Anthropology*

Dissertation: Bundled Ancestor: The Palmetto Mound (8LV2) on the Florida Gulf Coast

Dissertation Chair: K. E. Sassaman Jr.

Dissertation Co-chair: N. J. Wallis

### **Juan Du**

Major: *Curriculum and Instruction*

Dissertation: Chinese Engineers Perceptions of Their Writing Needs and Difficulties in an English Dominated Workplace

Dissertation Chair: D. Fu

### **Dominique Francis DuBose**

Major: *Rehabilitation Science*

Dissertation: The Effect of Sports-Related Concussion on Neuromuscular Function

Dissertation Chair: M. Horodyski

### **Shaun M. Duke**

Major: *English*

Dissertation: The Archipelago of Worlds: Caribbean Literature and the Modalities of Liberative Spatiality

Dissertation Chair: L. R. Rosenberg

Dissertation Co-chair: P. E. Wegner

### **Nicholas J. Dunbar**

Major: *Mechanical Engineering*

Dissertation: Patient Customizable Knee Model for Intraoperative Planning of Uni- and Bi-Compartmental Knee Arthroplasty

Dissertation Chair: S. A. Banks

### **Justin Peyton Dunnivant**

Major: *Anthropology*

Dissertation: Representation, Heritage, and Archaeology Among the Wolaita of Ethiopia

Dissertation Chair: S. A. Brandt

### **Nihal M. El Rouby**

Major: *Pharmaceutical Sciences*

Dissertation: Identification of Genetic Predictors of Resistant Hypertension Through Genome Wide Association Analysis Coupled with Induced Pluripotent Stem Cells

Dissertation Chair: J. A. Johnson

### **Matthew S. Emigh**

Major: *Electrical and Computer Engineering*

Dissertation: Model-Based Reinforcement Learning Using Information-Theoretic Descriptors

Dissertation Chair: J. C. Principe

**Johanna Cecilia Lousie Engström**

Major: *Geography*

Dissertation: The Influence of Large-Scale Climate Drivers on the Hydroclimatology and Hydropower Production in Southeastern United States

Dissertation Chair: P. R. Waylen

**Sheng-Po Fang**

Major: *Electrical and Computer Engineering*

Dissertation: Functionalized Electrospun Nanofibers and Their Biomedical Applications

Dissertation Chair: Y. K. Yoon

**Ashley C. Felts**

Major: *Chemistry*

Dissertation: Characterization and Modification of Transition Properties in Prussian Blue Analogue Heterostructures

Dissertation Chair: D. R. Talham

**Wei Feng**

Major: *Statistics*

Dissertation: Models for the Analysis of Repeated Attempt Designs

Dissertation Chair: M. J. Daniels

**Jonathan K. Fernand**

Major: *Psychology*

Dissertation: Evaluation of Functional Analysis Conditions and Subsequent Treatment of Inappropriate Mealtime Behavior

Dissertation Chair: T. R. Vollmer

**Jose Venancio Fernandez Diaz**

Major: *Agronomy*

Dissertation: Fall Panicum (*Panicum dichotomiflorum* Michx.) Management in the Everglades Agricultural Area (EAA)

Dissertation Chair: D. C. Otero

Dissertation Co-chair: G. E. MacDonald

**Amr Mohammed Sayed Feteha**

Major: *Chemistry*

Dissertation: Environmentally Friendly Packaging Polymers from Petroleum, Natural Gas, or Biorenewable Feedstocks

Dissertation Chair: S. A. Miller

**Norma Cristina Flor**

Major: *Agronomy*

Minor: *Plant Pathology*

Dissertation: Genetic Analysis of Large Patch Disease Resistance in *Zoysia* spp

Dissertation Chair: K. E. Kenworthy

**Lawrence Fomundam**

Major: *Electrical and Computer Engineering*

Dissertation: Development of a Wireless Power Transmission Front-End for Minimally Invasive or Shallow Biomedical Implants

Dissertation Chair: J. Lin

**Amanda Lee Ford**

Major: *Nutritional Sciences*

Minor: *Agricultural Education and Communication*

Dissertation: The Effects of a High Protein Diet on Microbiota, Gastrointestinal Function, Wellness and Potential Mitigating Effects of an Isolated Fiber and Multi-Strain Probiotic: A Randomized, Double-Blinded Crossover Study

Dissertation Chair: W. J. Dahl

**Trevor A. Foulk**

Major: *Business Administration—Management*

Dissertation: Rudeness on the Brain: Why Rudeness Is so Pervasive, and How One Rude Event Can Have Long-Lasting Effects

Dissertation Chair: A. Erez

**Anthony Wood Frei**

Major: *Biomedical Engineering*

Dissertation: The Local Release of Immunomodulatory Agents in the Context of Islet Transplantation

Dissertation Chair: C. Stabler Anderson

**Claudia Ganser**

Major: *Wildlife Ecology and Conservation*

Dissertation: Avian Malaria Community Relationships Across a Range of Ecosystems and Their Impact on Regional and Global Transmission

Dissertation Chair: S. M. Wisely

**Benjamin George**

Major: *Aerospace Engineering*

Dissertation: Three-Dimensional Effects of Cavities in Supersonic Flow and Their Control

Dissertation Chair: L. S. Ukeiley

**Hermes Gerardo-Cuervo**

Major: *Agricultural and Biological Engineering*

Dissertation: Understanding the Relationship Between Vegetation Indices and Climate Variability in Sugarcane in Florida

Dissertation Chair: C. W. Fraisse

**Christina Alexis Renay Gladney**

Major: *Health and Human Performance*

Dissertation: Measuring and Analyzing Racial Microaggressions Among Black Faculty, Administrators, and Staff at a Predominately White Organization

Dissertation Chair: J. Cheong

Dissertation Co-chair: C. B. Stopka

**William J. Godwin**

Major: *Biomedical Engineering*

Dissertation: Biokinetic Models and Internal Dosimetry of the Adult Pregnant Female and Fetus

Dissertation Chair: W. E. Bolch Jr.

**Tracey Graham**

Major: *Anthropology*

Dissertation: Sandy Island, An African American Diaspora Gullah Community

Dissertation Chair: I. P. McClaurin

**Uriah M. Gravois**

Major: *Coastal and Oceanographic Engineering*

Dissertation: Validation Test Cases for Operational Wave Models

Dissertation Chair: A. A. Sheremet

**David M. 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

**Irina Louise Ruden Greenman**

Major: *Classical Studies*

Dissertation: Sex, Lies, and Latin Love Poetry: The Ovidian Heroine and the Reclamation of Abandonment Narrative

Dissertation Chair: J. A. Rea

**Laura Forest Gruss**

Major: *Psychology*

Dissertation: Deconstructing Expectancy in Human Aversive Learning: Evidence from Neurophysiological and Behavioral Dynamics

Dissertation Chair: A. Keil

**Utpal Handique**

Major: *Horticultural Sciences*

Dissertation: Characterization of the Structure and Function of the Microbiome in Citrus Rhizosphere

Dissertation Chair: J. W. Grosser

Dissertation Co-chair: N. Wang

**Morgan Sierra Harding**

Major: *Chemical Engineering*

Dissertation: Mathematical Models for Impedance Spectroscopy

Dissertation Chair: M. E. Orazem

**John Steven Hargrove**

Major: *Wildlife Ecology and Conservation*

Dissertation: Fisheries Induced Evolution in Centrarchid Fishes

Dissertation Chair: J. D. Austin

Dissertation Co-chair: M. S. Allen

**David C. Hays**

Major: *Materials Science and Engineering*

Dissertation: Energy Band Offset Study of InGaZnO<sub>4</sub> and Potential Gate Dielectrics

Dissertation Chair: S. J. Pearton

Dissertation Co-chair: B. P. Gila

**Neverson-Anyjah Shôgun Heatley III**

Major: *Higher Education Administration*

Dissertation: Analyzing Minority Enrollment at American Bar Association Accredited Law Schools Between 2004 and 2012 Using Feedback Loops

Dissertation Chair: D. F. Campbell

**Felipe Andrés Hernández Muñoz**

Major: *Interdisciplinary Ecology*

Dissertation: Anthropogenic Factors as Disruptors of Ecosystem Health: Effects of Contaminants in Raccoons (*Procyon lotor*) and Pathogen Pollution by Invasive Feral Swine (*Sus scrofa*) in Southeastern United States

Dissertation Chair: S. M. Wisely

**Szuheng Ho**

Major: *Materials Science and Engineering*

Dissertation: Toward Organic Displays: Solution Processed Organic Light Emitting Diodes and Transparent Vertical Light Emitting Transistors

Dissertation Chair: F. F. So

**Lauren Ashley Hoffman**

Major: *Psychology*

Dissertation: A Neurobehavioral Investigation of Emotion Processing and Interpersonal Functioning in Alcoholism

Dissertation Chair: S. J. Nixon

**Seong Hyeon Hong**

Major: *Mechanical Engineering*

Dissertation: Effects of Different Drag-Free System Acceleration Noise Levels for Future Geodesy Missions

Dissertation Chair: J. Conklin

**Chad W. Hopkins**

Major: *Physics*

Dissertation: Optimization of Computational Chemistry Techniques

Dissertation Chair: A. E. Roitberg

**Mir Ashad Hossain**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Activation of Human Gamma-Globin Gene Expression Using Artificial Zinc Finger DNA-Binding Domains

Dissertation Chair: J. Bungert

**Lisa Angelina Howell**

Major: *Anthropology*

Dissertation: Anthropology at the Confluence: Intersections of Science and Community in Rural Communities

Dissertation Chair: B. H. Chalfin

**Yue Hu**

Major: *Environmental Engineering Sciences*

Dissertation: Contaminant Selectivity, Model Development, and Novel Operation for Ion Exchange Study

Dissertation Chair: T. H. Boyer

**R. Scott Hussey**

Major: *Anthropology*

Dissertation: A Collaborative Rescue Archaeological and Historical Investigation of Tétouan's Mazmorras, Morocco

Dissertation Chair: P. R. Schmidt

**Hyun-Sik Hwang**

Major: *Materials Science and Engineering*

Dissertation: Zinc Oxide Nanowire Interphase for Interfacial Reinforcement at High Strain Rates

Dissertation Chair: H. Sodano

**Lara Ianov**

Major: *Genetics and Genomics*

Dissertation: Transcriptional and Epigenetic Profiling of the Hippocampus and the Medial Prefrontal Cortex: Relationship to Aging and Cognitive Decline

Dissertation Chair: T. C. Foster

**Felipe Hernan Infante Cespedes**

Major: *Anthropology*

Dissertation: The Effects of Monoculture Tree Plantations on Small Farmers' Livelihoods in the Mediterranean Region of Chile

Dissertation Chair: C. McCarty

**Vicharana Intrakamhaeng**

Major: *Environmental Engineering Sciences*

Dissertation: Leaching Protocols for Assessing Regulatory Characterization and Environmental Mobility upon Waste Disposal

Dissertation Chair: T. G. Townsend

**Vaibhav Jain**

Major: *Medical Sciences—Genetics*

Dissertation: Role of LANA-N Terminal Domain in KSHV Epigenetics and Reactivation

Dissertation Chair: R. F. Renne

**Stephanie R. James**

Major: *Geology*

Dissertation: Environmental Applications of Ambient Seismic Noise for Monitoring and Hydrogeologic Characterization

Dissertation Chair: E. J. Sreaton



### **Victor Esteban Jarosiewicz**

Major: *Business Administration—Management*

Dissertation: Board Evolution after the IPO: Effects of Individual Director Persistent Policy Preferences and the Influence of Venture Capital

Dissertation Chair: G. K. Lee

### **Colleen Therese Cole Jeffrey**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Cardiopulmonary Protective Role of Probiotics and the ACE2/Ang-(1-7)/Mas Axis of the Renin-Angiotensin System

Dissertation Chair: P. P. Sayeski

Dissertation Co-chair: M. K. Raizada

### **Nakyung Jeon**

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Non-Steroidal Anti-Inflammatory Drug Associated Acute Kidney Injury in Hospital

Dissertation Chair: A. G. Winterstein

### **Valerie Ann Jepson**

Major: *Romance Languages—Spanish*

Dissertation: Second Language Phonological Acquisition in Naturalistic Learners

Dissertation Chair: G. E. Lord-Ward

### **Kaiyuan Jiang**

Major: *Biomedical Engineering*

Dissertation: Local Modification of Polydimethylsiloxane-Based Scaffold Implants to Improve Islet Graft Efficacy and Modulate Host Response

Dissertation Chair: C. Stabler Anderson

### **Jing Jiao**

Major: *Zoology*

Minor: *Statistics*

Dissertation: Effects of Movement in Human-Influenced Marine Systems

Dissertation Chair: C. W. Osenberg

Dissertation Co-chair: S. S. Pilyugin

### **Yifan Jin**

Major: *Chemistry*

Dissertation: Ionization Potential Improved Consistent Density Functional Theory

Dissertation Chair: R. J. Bartlett

### **Paul M. Johns**

Major: *Nuclear Engineering Sciences*

Dissertation: Materials Development for Nuclear Security: Bismuth Triiodide Room Temperature Semiconductor Detectors

Dissertation Chair: J. C. Nino

### **Micah Elijah Johnson**

Major: *Sociology*

Dissertation: Childhood Trauma and Adolescent Distress: Analyzing Achievement, Violence, and Suicidal Ideation

Dissertation Chair: B. A. Zsembik

### **Paul Raymond Joslyn**

Major: *Psychology*

Dissertation: Classroom Management Procedures with Students Who Engage in Delinquent Behavior

Dissertation Chair: T. R. Vollmer

### **Ilyoung Ju**

Major: *Mass Communication*

Dissertation: The Effect of Reminiscence Bump on Nostalgic Advertising, Emotional Responses, and Purchase Intent

Dissertation Chair: J. D. Morris

**Jason Carl June**

Major: *Aerospace Engineering*

Dissertation: An Acoustic and Hydrodynamic Study of Grazing Flow over Helmholtz Resonators

Dissertation Chair: M. Sheplak

**Eutyclus Mukure Kariuki**

Major: *Entomology and Nematology*

Dissertation: Impact, Field Host Range, and Vertical Foraging Range of *Cricotopus lebetis* Sublette (Diptera: Chironomidae), a Biological Control Agent of *Hydrilla verticillata* [L.f] Royle (Hydrocharitaceae)

Dissertation Chair: R. L. Hix

Dissertation Co-chair: J. P. Cuda

**Kyle Blaine Kelly**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: Age-Related Changes in Glutamate and GABA Receptor Mediated Signaling in the Rodent Medial Prefrontal Cortex

Dissertation Chair: C. J. Frazier

**Cody Robert Kilar**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: The Functional Role of the Beta Common Receptor in Angiogenesis and Resistance Artery Vasoreactivity

Dissertation Chair: M. S. Segal

**Changki Kim**

Major: *Health and Human Performance*

Dissertation: Visual Load and Motor Control in Older Adults

Dissertation Chair: E. A. Christou

**Kukjoo Kim**

Major: *Civil Engineering*

Dissertation: Enhanced Finite Element Analysis Tools and Instrumentation Method to Evaluate the Structural Behavior of Non-Conventional Concrete Pavements

Dissertation Chair: M. Tia

**Taewook Kim**

Major: *Electrical and Computer Engineering*

Dissertation: Continuous-Time Delta-Sigma Modulators with Enhanced Noise-Shaped Quantizer

Dissertation Chair: N. Maghari

**Derrick D. King**

Major: *English*

Dissertation: Forms of Crisis: Realism and Science Fiction in the Twenty-First Century

Dissertation Chair: P. E. Wegner

**Kevin D. Kircheval**

Major: *Veterinary Medical Sciences*

Dissertation: Utilizing the Asialoglycoprotein Receptor to Target Hepatocellular Carcinoma for Magnetically Mediated Energy Delivery Therapy Using Iron Oxide Nanoparticles

Dissertation Chair: S. M. Roberts

**Katharine E. Kolpan**

Major: *Anthropology*

Dissertation: Utilizing Bone Chemistry in the Identification of World War II Combatants in the Balkans and Its Political and Ideological Implications

Dissertation Chair: J. Krigbaum

### **Mohammad Ali Komeily**

Major: *Design, Construction, and Planning*

Minor: *Real Estate*

Dissertation: *We Shape Our Cities and They Shape Our Lives: A Data-Driven Analysis of Three Cities in Florida*

Dissertation Chair: R. S. Srinivasan

### **Kumudu Priyadarshani Perera Kopiyawattage**

Major: *Agricultural Education and Communication*

Dissertation: *Perspectives of Food Producers Regarding Food Production in Urban Areas*

Dissertation Chair: T. G. Roberts II

Dissertation Co-chair: L. A. Warner

### **Heather Lynn Koppenhöfer**

Major: *Entomology and Nematology*

Dissertation: *Diversity Among Bacterial Symbionts of Entomopathogenic Nematodes*

Dissertation Chair: J. B. Jones

Dissertation Co-chair: J. E. Maruniak

### **Ian Thomas Kracalik**

Major: *Geography*

Dissertation: *Impact of Zoonotic Diseases Control Policies: An Evaluation of Three Countries of the Former Soviet Union*

Dissertation Chair: J. K. Blackburn

### **Ashley Price Kuhn**

Major: *Criminology, Law, and Society*

Dissertation: *Faculty Perceptions of Student-Athlete Deviance: A Big Ten and SEC Comparison*

Dissertation Chair: J. L. Wilson

### **Nalini Kumar**

Major: *Electrical and Computer Engineering*

Dissertation: *Behavioral Emulation for Design-Space Exploration of Extreme-Scale Algorithms and Architectures*

Dissertation Chair: H. Lam

### **Ron-Chi Kuo**

Major: *Electrical and Computer Engineering*

Dissertation: *Three Dimensional Wireless Charging System with Flexible Receiver Alignment*

Dissertation Chair: J. Lin

### **Michael W. Kwan**

Major: *Materials Science and Engineering*

Dissertation: *Development of Samarium Oxide Based Approach to Radiopharmaceutical Treatment of Osteosarcoma*

Dissertation Chair: C. D. Batich

### **Kelly Ann Landry**

Major: *Environmental Engineering Sciences*

Dissertation: *Experimental and Life-Cycle Investigation of Nonsteroidal Anti-Inflammatory Drug Removal in Source Separated Urine to Produce a Contaminant Free Nutrient Product*

Dissertation Chair: T. H. Boyer

### **Aaron M. Landy**

Major: *Electrical and Computer Engineering*

Dissertation: *Performance Optimization Strategies for Virtual Reconfigurable Computers*

Dissertation Chair: G. M. Stitt

### **Megan Leah Lane**

Major: *Educational Leadership*

Dissertation: *The Relative Efficiency of Charter Schools to Traditional Public Schools: A Stochastic Frontier Analysis in Florida*

Dissertation Chair: R. C. Wood

Dissertation Co-chair: D. J. Therriault

**Lisa Yun Lawson**

Major: *Medical Sciences—Genetics*

Dissertation: Role of Robo Genes During Murine Vertebral Column Formation

Dissertation Chair: B. Harfe

**Hyo Keun Lee**

Major: *Health and Human Performance*

Dissertation: Gait and Balance Performance and Non-Motor Symptoms in Parkinson's Disease

Dissertation Chair: C. J. Hass

**Keith E. Lee Jr.**

Major: *Political Science*

Dissertation: Reconstructed: The Populist Revolt as the Cornerstone of Political Development in the American South

Dissertation Chair: L. C. Dodd

**Dylan Joseph Lennon**

Major: *Nutritional Sciences*

Dissertation: Increased Resolution of Food Intake and Gut Microbiome in Precision Dietary Therapy

Dissertation Chair: P. L. Borum

**Clark Emery Letter**

Major: *Civil Engineering*

Dissertation: Freeway Congestion Mitigation Using Advanced Vehicle and Communication Technology

Dissertation Chair: A. Elefteriadou

**Eshe Lyndzie Lewis**

Major: *Anthropology*

Dissertation: Violence for the Record: Afro-Peruvian Women's Accounts of Intimate Partner Violence

Dissertation Chair: F. V. Harrison

**Zhangbo Li**

Major: *Materials Science and Engineering*

Dissertation: Effect of Neutron Irradiation and Thermal Aging on Cast Austenitic Stainless Steel and Stainless Steel Weld Phase Stability

Dissertation Chair: Y. Yang

**Hsiao-Wen Liao**

Major: *Psychology*

Dissertation: Experiencing Being Me over Time: The Self-Continuity Function of Autobiographical Memory in Adulthood

Dissertation Chair: S. B. Bluck

**Diane V. Lillesand**

Major: *Religion*

Dissertation: The Influence of Sacred Stories and Sacred Role Models on the Gender Role Construction of First and Second Generation Indian Hindu Women in the United States

Dissertation Chair: V. R. Narayanan

**Jingwen Liu**

Major: *Psychology*

Dissertation: Genetic Architecture of Specific and Comorbid Internalizing and Externalizing Problems Among Economically Disadvantaged African American Adolescents

Dissertation Chair: D. Kertes

**Yihao Liu**

Major: *Business Administration—Management*

Dissertation: Newcomer Socialization in Teams: An Agent-Based Model and a Lab Study

Dissertation Chair: M. Wang

**Benjamin M. Looney**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Altered Beta Cell Innate Immune Response to Terminal Deletion Coxsackievirus B3

Dissertation Chair: M. J. Clare-Salzler

**Carlos Alberto Loza Navas**

Major: *Electrical and Computer Engineering*

Dissertation: A Transient Model for Neuronal Oscillations

Dissertation Chair: J. C. Principe

**Nargiza Ludgate**

Major: *Interdisciplinary Ecology*

Dissertation: Gender Roles in Household Water Resource Management in Water-Scarce Countries: Does Greywater Treatment Technology Empower Rural Women in Jordan?

Dissertation Chair: S. L. Russo

Dissertation Co-chair: T. Borisova

**Kaley Ann MacFadyen**

Major: *Pharmaceutical Sciences—Pharmacodynamics*

Dissertation: The Role of Oxytocin and Oxytocin Receptors in Regulating Neurons of the Ventral Tegmental Area and Rewarding Behaviors Such as Ethanol Consumption

Dissertation Chair: J. Peris

**Scott A. Macrae**

Major: *Anthropology*

Dissertation: A Socio-Ecological Approach to Assessing the Agricultural Strategy at the Minor Center of Waybil

Dissertation Chair: K. F. Emery

**Mohamad Fadhli bin Mad Atari**

Major: *Horticultural Sciences*

Dissertation: Optimization of Regeneration and Transformation for Diploid Strawberry *Fragaria vesca* Genotype 5AF7 as a Functional Genomics Resource

Dissertation Chair: K. M. Folta

**Aleksandr Mafusalov**

Major: *Industrial and Systems Engineering*

Dissertation: Risk Management Approaches in Distribution Approximation, Regression, and Classification

Dissertation Chair: S. Uryasev

**Mary Ann Dy Maquilan**

Major: *Horticultural Sciences*

Dissertation: Rootstock Breeding for Resistance to the Peach Root-Knot Nematode *Meloidogyne floridensis*

Dissertation Chair: M. A. Olmstead

Dissertation Co-chair: J. X. Chaparro

**George William Marek III**

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Liver Fibrosis in Alpha-1 Antitrypsin Deficiency

Dissertation Chair: M. L. Brantly

**David M. Markus**

Major: *Anthropology*

Dissertation: The Archaeology of Jewish Folk Practice: Domestic Religious Ritual on the 19<sup>th</sup> Century Frontier

Dissertation Chair: J. M. Davidson

**Marcela Andrea Márquez García**

Major: *Interdisciplinary Ecology*

Dissertation: Evaluating Agricultural Conservation Practices: Corporate Conservation Behavior Analysis of Winegrowers in Chile's Mediterranean Ecosystems

Dissertation Chair: S. Jacobson

**Carlos Alberto Martínez Niño**

Major: *Animal Sciences*

Dissertation: Studies on Statistical Genomics to Improve the Estimation of Allele Frequencies, Breed Composition, Variance Components, and Prediction of Additive Genetic Values

Dissertation Chair: M. A. Elzo

**Brad Thomas Massey**

Major: *History*

Dissertation: Defying the Sunbelt: The Making of Interindustrial Tampa, 1950 to 1980

Dissertation Chair: J. E. Davis

**Mariko Matsuura**

Major: *Chemistry*

Dissertation: Constructing Artificial Genetic Systems: A New Nucleotide Metabolism

Dissertation Chair: S. D. Bruner

**Barbara Ann Matusik**

Major: *Design, Construction, and Planning*

Dissertation: The Phenomena of Mary Elizabeth Jane Colter: Creating an Architectural Sense of Place on Grand Canyon

Dissertation Chair: J. S. Matthews

**Angela L. McCall**

Major: *Medical Sciences—Genetics*

Dissertation: Correction of Autophagic Accumulation in Skeletal Muscle of a Pompe Disease Mouse Model Following Gene Therapy Administration

Dissertation Chair: B. J. Byrne

**Jame Elizabeth McCray**

Major: *Wildlife Ecology and Conservation*

Dissertation: Sea Turtle Friendly Lighting in Florida: A Multi-Level Evaluation of Policy Implementation and Effectiveness

Dissertation Chair: R. R. Carthy

Dissertation Co-chair: S. Jacobson

**Jorge I. Medina**

Major: *Chemistry*

Dissertation: Excitation Wavelength Dependence of the Photo-Isomerization of Merocyanine-540 in Methanol: Using Two-Dimensional Electronic Spectroscopy to Shed Light on an Unsolved Problem

Dissertation Chair: V. D. Kleiman

**Ana Maria Mesa Guarin**

Major: *Animal Sciences*

Dissertation: Strategies to Reduce Physiological, Environmental Stress on Horses and Exercise Consequences on the Porcine Model

Dissertation Chair: C. J. Mortensen

**Timoteo R. Mesh**

Major: *Anthropology*

Dissertation: The Maya Struggle of Southern Belize: Alcaldeship and State Craft

Dissertation Chair: M. M. Stoilkova

**Evan Michael Milliken**

Major: *Mathematics*

Dissertation: Metapopulation Models of Infectious Salmon Anemia

Dissertation Chair: S. S. Pilyugin

**Andrew Jesse Milluzzi**

Major: *Electrical and Computer Engineering*

Dissertation: Multi-Tiered Optimization for Heterogeneous Computing

Dissertation Chair: A. D. George

**Marissa Selena Molinar**

Major: *Anthropology*

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

Dissertation Chair: K. E. Sassaman Jr.

**Todd William Molnar**

Major: *Mathematics*

Dissertation: On the Local Distribution of the Number of Small Prime Factors

Dissertation Chair: K. Alladi

Dissertation Co-chair: L. C. Shen

**Jolande L. Morgan**

Major: *Educational Leadership*

Dissertation: School Governance and Public Choice Theory: A Study of the Decision-Making Authority in School Systems

Dissertation Chair: R. C. Wood

**Katie Fields Mosher**

Major: *Counseling and Counselor Education*

Dissertation: Examining the Relationship Among Neighborhood, Family, and Individual Child Characteristics and Adverse Childhood Experiences

Dissertation Chair: M. H. Daniels

**Jason K. Neely**

Major: *Counseling and Counselor Education*

Dissertation: Couples Therapy to Improve the Marriage for Parents with a Child with Autism

Dissertation Chair: S. C. Echevarria-Doan

**Dawn M. Nekorchuk**

Major: *Geography*

Minor: *One Health and Modeling*

Dissertation: Modeling Indirect Transmission Disease Risk: Anthrax in Bison in Southwestern Montana

Dissertation Chair: J. K. Blackburn

Dissertation Co-chair: L. Mao

**Mason Joel Newark**

Major: *Plant Pathology*

Dissertation: Examining Risk Factors of *Stagonosporopsis* spp Epidemics in Watermelon Production; Fungicide Resistance and Corresponding Population Genetics

Dissertation Chair: N. S. Dufault

Dissertation Co-chair: M. Paret

**Eric A. Newberry**

Major: *Plant Pathology*

Dissertation: Bacterial Leaf Spot of Watermelon Caused by *Pseudomonas syringae*: Genotypic Diversity, Epidemiology, and Disease Management

Dissertation Chair: M. Paret

Dissertation Co-chair: J. B. Jones

**Brittney Nicole Newby**

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Type 1 Interferons Promote a Diabetogenic Microenvironment in Type 1 Diabetes

Dissertation Chair: C. E. Mathews

**Erica N. Newport**

Major: *Mass Communication*

Dissertation: Three Years after Trayvon Martin's Death: Is Political Alienation Shifting Across Disparate Racial/Ethnic Group Residents of Sanford, Florida?

Dissertation Chair: W. M. Wanta

**Ethan R. Nielsen**

Major: *Horticultural Sciences*

Dissertation: Exploitation of Pummelo (*Citrus maxima* (Burm.) Merrill) Through Breeding, Ploidy Manipulation, and Interstocks for Improvement of Cultivated Citrus

Dissertation Chair: J. W. Grosser

**Ryan Michael Nixon**

Major: *Mechanical Engineering*

Dissertation: Microfluidics of Soft Granular Gels

Dissertation Chair: T. E. Angelini

**Daniel A. Norford**

Major: *English*

Dissertation: Cosmopolitical Spectatorship in Resnais, Kluge, and Sembène

Dissertation Chair: B. C. Mennel

**KaTosha Hope O'Daniel**

Major: *English*

Dissertation: Children's Literature and Theme Parks: Intersections and Adaptations

Dissertation Chair: K. B. Kidd

**Ibukun Michael Ogunade**

Major: *Animal Sciences*

Dissertation: Effects of Mycotoxin Adsorbents and Microbial Additives on Aflatoxins and *Escherichia coli* O157:H7 in Feeds for Dairy Cows

Dissertation Chair: A. T. Adesogan

Dissertation Co-chair: D. Vyas

**Antonio Jose Ordonez**

Major: *Astronomy*

Dissertation: Pulsating Variable Stars in Local Group Dwarf Galaxies

Dissertation Chair: A. Sarajedini

**Martha Sofia Ortega Obando**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Candidate Genes Associated with Fertility and Embryonic Development in Dairy Cattle

Dissertation Chair: P. J. Hansen

**Andrew S. Padgett**

Major: *Physics*

Dissertation: Low Temperature Properties of Three Novel Quantum Solids

Dissertation Chair: Y. Takano

**Robert L. Parker**

Major: *Statistics*

Dissertation: Some Strong and Weak Limit Theorems for Double Sums of Random Elements in Banach Spaces

Dissertation Chair: A. J. Rosalsky

**Longineu Warren Parsons Jr.**

Major: *Music*

Dissertation: The Avant-garde in Jazz as Representative of Late 20<sup>th</sup> Century Art Music

Dissertation Chair: P. S. Richards

**Juliana A. Pereira**

Major: *Plant Pathology*

Dissertation: Generation of Disease Resistance and Characterization of Arabidopsis Disease Related Genes in Tomatoes

Dissertation Chair: Z. Mou

Dissertation Co-chair: J. B. Jones



**Heather M. Petroccia**

Major: *Biomedical Engineering*

Dissertation: Reconstruction of Organ Doses of Patients Treated Historically for Hodgkin's Lymphoma with Cobalt-60 Teletherapy

Dissertation Chair: W. E. Bolch Jr.

**Arun Kumar Pokhrel**

Major: *English*

Dissertation: The Global Environmental Imagination: Environments and Cultures in Post-1960 British and Global Anglophone Novels

Dissertation Chair: P. E. Wegner

Dissertation Co-chair: R. B. Kershner Jr.

**Michael Joseph Polo**

Major: *Music*

Dissertation: Chill Responses to Post-Tonal Music: Musical Structures and Physiological Reactions

Dissertation Chair: P. S. Richards

**Rosha Poudyal**

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Assessment of Chromatin Heterogeneity in Kaposi's Sarcoma-Associated Herpesvirus (KSHV) Latent and Lytic Genomes

Dissertation Chair: M. P. Kladde

**Ing-orn Prasanchaimontri**

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Preclinical Pharmacokinetics Evaluation of Novel Compounds Mitigating Infections and Radiation-Induced Injuries

Dissertation Chair: H. C. Derendorf

**Deborah Michelle Price**

Major: *Animal Sciences*

Dissertation: The Effect of Pre- and Postnatal Trace Mineral Supplement Source on Measures of Cow Performance and Trace Mineral Status, and Calf Trace Mineral Status, Immunity, Performance, and Sexual Development

Dissertation Chair: M. J. Hersom

Dissertation Co-chair: J. V. Yelich

**Jason E. Purvis**

Major: *Religion*

Dissertation: A Circle in a Rectangle: Native Evangelicals and the Negotiation Between Institutional Legitimacy, Mockery, and Cultural Inversion

Dissertation Chair: R. Wright

**Kamran Rahmani**

Major: *Computer Engineering*

Dissertation: Scalable Signal Selection for Post-Silicon Debug

Dissertation Chair: P. K. Mishra

**Parag Subhash Rane**

Major: *Chemical Engineering*

Dissertation: Effect of Microtubule Motors on Microtubule Mechanics

Dissertation Chair: A. J. Ladd

Dissertation Co-chair: T. Lele

**Tiffany Nichole Reagan**

Major: *Mechanical Engineering*

Dissertation: MEMS on a Plane: A Flush-Mount Microelectromechanical Systems Based Piezoelectric Microphone with Through-Silicon-Vias for Aircraft Fuselage Arrays

Dissertation Chair: M. Sheplak

**Thomas V. Reed**

Major: *Horticultural Sciences*

Dissertation: Fomesafen Persistence, Movement, and Efficacy for Nutsedge Control in Florida Plasticulture Production

Dissertation Chair: N. S. Boyd

**Joel Eduardo Reyes Cabrera**

Major: *Agronomy*

Dissertation: Effects of Land-Application of Bioenergy Residuals on Ecosystem Services and Soil-Water-Plant Relations in Florida Agroecosystems

Dissertation Chair: R. G. Leon-Gonzalez

Dissertation Co-chair: J. E. Erickson

**Maria Constanza Rios Marin**

Major: *Interdisciplinary Ecology*

Dissertation: From Individual Decisions to Collective Action for Biodiversity Conservation: Networks of Reserves of the Civil Society in Colombia

Dissertation Chair: K. A. Kainer

**Varun Kumar Rishi**

Major: *Chemistry*

Dissertation: In Weak and in Strong Correlation: The Search for a Coupled Cluster Method That Works in All Scenarios

Dissertation Chair: R. J. Bartlett

**Ellen P. Robertson**

Major: *Wildlife Ecology and Conservation*

Dissertation: The Roles of Dispersal and Post-Dispersal Reproduction for Connectivity Across a Dynamic Wetland Landscape

Dissertation Chair: R. J. Fletcher Jr.

Dissertation Co-chair: J. D. Austin

**John E. Rogers**

Major: *Electrical and Computer Engineering*

Dissertation: A Passive Wireless MEMS Dynamic Pressure Sensor for Harsh Environments

Dissertation Chair: M. Sheplak

Dissertation Co-chair: Y. K. Yoon

**Krista A. Romita Grocholski**

Major: *Astronomy*

Dissertation: Embedded Clusters in the Large Magellanic Cloud

Dissertation Chair: E. A. Lada

**Christopher Wade Ross**

Major: *Soil and Water Science*

Dissertation: A Region Wide Analysis of Terrestrial Carbon Cycling Across The Land of Pines

Dissertation Chair: S. Grunwald

**Mayra Rostagno**

Major: *Chemistry*

Dissertation: Aromatic Polyacetals and Polyaldimines as Potential Replacements for Commodity Plastics

Dissertation Chair: S. A. Miller

**Mehdi Zahid Sadi**

Major: *Electrical and Computer Engineering*

Dissertation: On-Chip Structures for Reliability Management of System-On-Chips

Dissertation Chair: M. M. Tehranipoor

**Elham Sakhaee**

Major: *Computer Engineering*

Dissertation: Joint Linear Inverse Problems with Sparse Solutions: Theory and Applications

Dissertation Chair: A. Entezari

**Carola Andrea Salazar Norambuena**

Major: *Anthropology*

Dissertation: Perceptions of Well-Being in Two Groups of Senior Citizens: Long Term Care Center Residents and Non-Residents in Curicó, Chile

Dissertation Chair: P. F. Collings

**Danielle O. Sambo**

Major: *Medical Sciences—Neuroscience*

Dissertation: Sigma-1 Receptor Modulation of Methamphetamine Dysregulation of Dopamine Neurotransmission

Dissertation Chair: H. Khoshbouei

**George A. Sarkis**

Major: *Chemistry*

Dissertation: Novel Proteolytic Protein and Peptide Biomarkers for Traumatic Brain Injury

Dissertation Chair: R. A. Yost

**Martin Georgiev Sarov**

Major: *Computer Engineering*

Dissertation: Constructing the Spline Atlas of a Free-Form Surface

Dissertation Chair: J. Peters

**Neha Saroj Saxena**

Major: *Materials Science and Engineering*

Dissertation: Optimization of the Polymer-Induced Liquid-Precursor Process for the Remineralization of Dentin Lesions

Dissertation Chair: L. B. Gower

**Mona Brenda Gaturian Sayedul Huq**

Major: *Health and Human Performance*

Dissertation: Adverse Childhood Experiences, Resilience, and Anxiety/Depression Among Juvenile Offenders in Florida

Dissertation Chair: C. B. Stopka

**Robert Winston Scharr**

Major: *Political Science*

Dissertation: Immigration Policy in the United States: Polarization and Paranoia Across Time

Dissertation Chair: L. C. Dodd

Dissertation Co-chair: S. D. Austin

**Timothy P. Schlittenhardt**

Major: *Physics*

Dissertation: Modeling Morphology Dependence of the Power Generation in Bulk Heterojunction Organic Photovoltaics

Dissertation Chair: S. P. Hershfield

**Sarah Kiley Schoff**

Major: *Anthropology*

Dissertation: Estimating the Postmortem Interval in Florida: A Regional Validation Study Using Geospatial Analysis

Dissertation Chair: M. W. Warren

**Kyle Dwight Schulze**

Major: *Mechanical Engineering*

Dissertation: The Various Contact Mechanics of Soft, Tunable Surfaces

Dissertation Chair: W. G. Sawyer

**Shaun Michael Sharpe**

Major: *Horticultural Sciences*

Dissertation: Use of Clopyralid to Control Black Medic (*Medicago lupulina*) in Florida Strawberry (*Fragaria X ananassa*) Production

Dissertation Chair: N. S. Boyd

Dissertation Co-chair: P. J. Dittmar

**Meng Shen**

Major: *Food and Resource Economics*

Dissertation: Three Essays on Food Label Context and Consumer Choice Behavior

Dissertation Chair: Z. Gao

**Robert Wayne Short**

Major: *English*

Dissertation: Big Books: Addiction and Recovery in the Novels of David Foster Wallace

Dissertation Chair: M. C. Bryant

Dissertation Co-chair: P. A. Travis

**Michele A. Silver**

Major: *Educational Leadership*

Dissertation: Measuring Critical Thinking Skills Among Surgical Faculty and General Surgery Resident Physicians

Dissertation Chair: L. S. Behar-Horenstein

Dissertation Co-chair: A. C. Manley

**Luiz Gustavo Bruno Siqueira**

Major: *Animal Molecular and Cellular Biology*

Dissertation: Developmental Programming of the Bovine Embryo by *In Vitro* Fertilization and the Maternal Embryokine Colony-Stimulating Factor 2

Dissertation Chair: P. J. Hansen

**Minhazul Islam Sk**

Major: *Computer Science*

Dissertation: Automatic Discovery of Latent Clusters in General Regression Models

Dissertation Chair: A. Banerjee

**Leigh Ann Skurupey**

Major: *Animal Sciences*

Minor: *Soil and Water Science*

Dissertation: Using Diet to Influence Phosphorus Excretion in Horses and Reduce Phosphorus Leaching from Manure

Dissertation Chair: L. K. Warren

**Marci G. Smeltz**

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Factors Modulating Dichloroacetate-Induced Glutathione Transferase Zeta 1 Inactivation in a Rat Model

Dissertation Chair: M. O. James

**Jie Song**

Major: *Design, Construction, and Planning*

Dissertation: An Examination of Sea Level Rise Impacts on Land Use and Population Relocation: Case Study in Bay County, Florida, USA

Dissertation Chair: Z. Peng

**Kristen Lynn Sowalsky**

Major: *Health and Human Performance*

Dissertation: The Influence of Auditory Cueing Techniques on Gait Performance and Mobility in Parkinson's Disease

Dissertation Chair: C. J. Hass

**David William Spelman**

Major: *Environmental Engineering Sciences*

Dissertation: Computational Fluid Dynamics Modeling of Particulate Matter Transport and Fate in Stormwater Unit Operations Subject to Unsteady Hydraulic Loadings

Dissertation Chair: J. J. Sansalone

**Vivian Elaine Sponholtz**

Major: *Mass Communication*

Dissertation: Mediated Wonderment: Animation Innovators, Contiguity, and Foundations of Digital Media

Dissertation Chair: C. L. Roberts III

### **Dara Gene Stockton**

Major: *Entomology and Nematology*

Dissertation: Learning in the Asian Citrus Psyllid Influences Host Plant Preference, Oviposition Site Selection, and Mate Choice

Dissertation Chair: L. L. Stelinski

### **Margo Anora Stoddard**

Major: *Wildlife Ecology and Conservation*

Dissertation: Interaction of Landscape Structure, Artificial Light, and Predators on Risk Perceived by Beach Mice

Dissertation Chair: L. C. Branch

### **Soumitra Sunil Sulekar**

Major: *Materials Science and Engineering*

Dissertation: Defect Dynamics in Doped Ceria Electrolytes

Dissertation Chair: J. C. Nino

### **Hao Sun**

Major: *Chemistry*

Dissertation: Macromolecular Metamorphosis

Dissertation Chair: B. S. Sumerlin

### **Syraj Syed**

Major: *Higher Education Administration*

Dissertation: Meaning-Making and Individual Identity: A Journey Through Faculty Change Narratives

Dissertation Chair: D. F. Campbell

Dissertation Co-chair: C. Haynes

### **Mallory R. Szymanski**

Major: *History*

Dissertation: Sexual Dysfunction as “The National Disease of America”: Neurasthenia and Medical Approaches to Men’s Sexual and Emotional Health in the Gilded Age

Dissertation Chair: B. E. Wise

### **Nahathai Tanakul**

Major: *Astronomy*

Dissertation: RR Lyrae Variable Stars in M31-M33 Super-Halo

Dissertation Chair: A. Sarajedini

### **Bryan C. Tarbox**

Major: *Agronomy*

Minor: *Wildlife Ecology and Conservation*

Dissertation: Assessing the Potential for Silvopastoralism to Mitigate the Negative Impacts of Cattle Production on Neotropical Biodiversity

Dissertation Chair: S. Flory

### **Rachel Ann Thomas**

Major: *Special Education*

Dissertation: Writing Instruction for Students with Learning Disabilities: A Grounded Theory of Expert Middle School Language Arts Teachers

Dissertation Chair: P. T. Sindelar

Dissertation Co-chair: E. D. McCray

### **George P. Tiley**

Major: *Botany*

Dissertation: Evolutionary Processes and Plant Genome Evolution

Dissertation Chair: J. G. Burleigh

### **Emmanuel Amable Torres Quezada**

Major: *Horticultural Sciences*

Dissertation: Optimization of Early Yield Production for Strawberry Transplants in Florida

Dissertation Chair: L. Zotarelli

**Paula Tribulo**

Major: *Animal Molecular and Cellular Biology*  
Dissertation: WNT Signaling in the Preimplantation Embryo  
Dissertation Chair: P. J. Hansen

**Bryan Scott Tucker**

Major: *Chemistry*  
Dissertation: RAFT-Derived Polymers in Nanomedicine: New Synthetic Methods and Applications  
Dissertation Chair: B. S. Sumerlin

**Ali Kemal Uncu**

Major: *Mathematics*  
Dissertation: Some Topics in Q-Series and Partitions  
Dissertation Chair: A. Berkovich

**Silvia Joao Vau**

Major: *Entomology and Nematology*  
Dissertation: Mi-1 Gene for Management of Root Knot Disease in Florida Field and Growth Chamber Evaluations  
Dissertation Chair: D. W. Dickson

**Clayton J. Visger**

Major: *Botany*  
Dissertation: The Evolutionary Impact of Autopolyploidy in *Tolmiea* (*Saxifragaceae*)  
Dissertation Chair: D. E. Soltis  
Dissertation Co-chair: P. S. Soltis

**Haitang Wang**

Major: *Nuclear Engineering Sciences*  
Dissertation: Models and Characterizations of Neutron Scintillation Detectors for Feasibility of Spent Fuel Cask Monitoring  
Dissertation Chair: P. Enqvist

**Hongbin Wang**

Major: *Veterinary Medical Sciences*  
Dissertation: Mucosal *Brucella* Vaccination Enhances Pulmonary Resident Memory T Cells Against *Brucella* Infection  
Dissertation Chair: D. W. Pascual

**Zeyu Wang**

Major: *Design, Construction, and Planning*  
Dissertation: Artificial Intelligence Based Ensemble Model for Building Energy Prediction  
Dissertation Chair: R. S. Srinivasan

**Xiao Wen**

Major: *Electrical and Computer Engineering*  
Dissertation: On the Exploration of Electro-Infiltrated Magnetic Nanocomposites  
Dissertation Chair: D. P. Arnold

**Jason Brandon Wenzel**

Major: *Anthropology*  
Dissertation: Staging Tourism: Leisure and Consumption in Florida's Early Twentieth Century Resorts  
Dissertation Chair: J. M. Davidson

**Keith C. Wessel**

Major: *Classical Studies*  
Dissertation: Charity Toward Widows in Early Christian Communities  
Dissertation Chair: K. Kapparis

**Sarah Keller White**

Major: *Public Health*

Dissertation: Public Health Risks Associated with Influenza D, Chikungunya, and Zika Virus Infections: Virology in the Context of One Health

Dissertation Chair: J. Lednicky

**Karessa D. White**

Major: *Communication Sciences and Disorders*

Dissertation: Cochlear NADPH Redox State and Antioxidant Defense in Mice

Dissertation Chair: S. Someya

**William Cary Whiteford**

Major: *Design, Construction and Planning*

Minor: *Real Estate*

Dissertation: Can GeoDesign Save the World? A Framework and Methodology to Envision Smarter Cities

Dissertation Chair: C. Silver

**Julia A. Wilson**

Major: *Health and Human Performance*

Dissertation: Factors Affecting Participation in Health Research Among ROTC Cadets

Dissertation Chair: D. C. James

**Allysha Powanda Winburn**

Major: *Anthropology*

Dissertation: Skeletal Age Estimation in Modern European-American Adults: The Effects of Activity, Obesity, and Osteoarthritis on Age-Related Changes in the Acetabulum

Dissertation Chair: M. W. Warren

**William C. Wright**

Major: *Forest Resources and Conservation*

Dissertation: Predicting GPS Signal Loss in Forests Using Sky-Oriented Photography

Dissertation Chair: B. E. Wilkinson

**Michael Wylde**

Major: *Anthropology*

Dissertation: The Inca Dogs and Their Ancestors

Dissertation Chair: S. D. deFrance

**Le Yan**

Major: *Linguistics*

Dissertation: The Processing of Parasitic Gaps in Mandarin Chinese

Dissertation Chair: E. Kaan

**Tao Yang**

Major: *Veterinary Medical Sciences*

Dissertation: Host-Gut Microbiota Interactions in Rodent Models of Hypertension

Dissertation Chair: J. Zubcevic

**Eunice Yacoba Yarney**

Major: *Soil and Water Science*

Dissertation: Temporal and Spatial Variability of Agricultural Irrigation Water Salinity and Effects of Irrigation and Drainage Practices on Soil Salinity in Northeast Florida

Dissertation Chair: M. W. Clark

**Richard M. Yon**

Major: *Political Science*

Dissertation: Emerging from the Shadows: Vice Presidential Influence in the Modern Era

Dissertation Chair: B. A. Rosenson

**Sulhee Yoon**

Major: *Design, Construction and Planning*

Minor: *Health Services Research*

Dissertation: Exploring the Relationship Between Urban Form and Health Outcomes

Dissertation Chair: I. Bejleri

Dissertation Co-chair: R. L. Steiner

**Weimin Yuan**

Major: *Entomology and Nematology*

Dissertation: Evaluation of Resistance to Root-Knot Nematode in Peanut Cultivar-Tifguard

Dissertation Chair: D. W. Dickson

**Xiaomeng Yuan**

Major: *Psychology*

Dissertation: Facing Threat When Fear and Safety Signals Coexist: Fear Inhibition in Observers with High vs. Low Anxiety

Dissertation Chair: A. Keil

**Miguel Zarate Urbano**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: The Role of Ketamine and Bacteria in the Global Fetal Response to Two Different Hypoxic Models: Umbilical Cord Occlusion and Hypoxic Hypoxia

Dissertation Chair: C. E. Wood

**Laura Ann Zdziarski**

Major: *Rehabilitation Science*

Dissertation: Improving Functional Outcomes in Obese Orthopaedic Trauma Patients with an Integrated Care Approach and Early Mobilization

Dissertation Chair: H. K. Vincent

**Liteng Zha**

Major: *Civil Engineering*

Dissertation: Modeling and Analysis of On-Demand Ride-Sourcing Markets

Dissertation Chair: Y. Yin

**Yuanxin Zhang**

Major: *Design, Construction and Planning*

Minor: *Statistics*

Dissertation: Parametric Estimation of Highway Construction Costs Using Empirical Modeling Methods

Dissertation Chair: R. E. Minchin Jr.

**Guannan Zhou**

Major: *Medical Sciences—Physiology and Pharmacology*

Dissertation: Ventral Respiratory Column Expiratory Neurons Participation in the Fictive Swallow in the Cat

Dissertation Chair: P. W. Davenport



# DOCTOR OF EDUCATION

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## **Marcia M. DaCosta-Bedasse**

Major: *Educational Leadership*

Dissertation: The Effect of Teacher Characteristics on Student Achievement in Low-Performing Schools

Dissertation Chair: B. Oliver

Dissertation Co-chair: L. B. Eldridge

## **Erin Elizabeth Flynn Noxon**

Major: *Curriculum and Instruction*

Dissertation: Evaluating Professional Development on Educational Technology Integration for English Teachers in Japan

Dissertation Chair: K. M. Dawson

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## DOCTOR OF AUDIOLOGY

Emily M. Andrews  
Mitch F. Aquilina  
Jennifer B. Aranda-Cordero  
Lia Jean Heber Best  
Rhiannon Amber Billsborough  
Sze Wan Bok  
Ian Boyle  
Kellie Dana Brooke  
Loretta Lee Brown  
Sarah Ann Crosson

Kathleen Adams Culbertson  
Karen Jane Enman  
Gouthami S. Erra  
Meaghan Helene Fenn  
Jennifer D. Goshorn  
Sarah Katherine Kennedy Grinn  
Lisa L. Koch  
Angelea Enfinger Kronlage  
Sherie Stephanny Laurens  
Brooke Irene Lewandowski

Elvira Livigni-De Armas  
Victoria Mercedes Peña Martin  
Kyra L. McKeithan  
Jennifer N. Micheletto - Brown  
Samantha C. Morrill  
Kaitlin Dougherty Prizzia  
Mohammed Maruf Salam  
Heather Ann Simmons  
Yiu-Ting Tam  
Dayna West

## DOCTOR OF NURSING PRACTICE

Luisa Batine  
Amanda H. Bennett  
Jaclyn Vaccarello Campbell  
Jessie A. Cirolia  
Solange Ivenia Colin  
Angela Faith Davenport

Heather Renee Davis  
Juliet Nkeonyelu Ezepue  
Elizabeth Lee Gatch  
Gregg T. Graham  
Dominique Maria Ferro Greene  
Marcella Chere Johnson

Diane C. McLaughlin  
Mireille Merisier  
Diana Olivia Rhys  
Jaclyn Rita Rothberg  
Kenneth Charles Ryan  
Tiffany Eve Tamasfi

## DOCTOR OF PHYSICAL THERAPY

Rachel Ariane Ahearn  
Brooke Dannelley Barton  
Catherine Sonja Birch  
Max Blackburn  
Danielle Lea Borglum  
Shankira Ashley Bowe  
Daniel A. Brady  
Lindsay Hunter Brinker  
Michael Gerard Broderick  
Laura Ann Brown  
Jonathan I. Castro  
Dylan A. Conner  
Alyssa Sachiko Corcoran  
Jasmine Caag Dabuet  
Brooke Danielle Denninghoff  
Katie M. Dewar  
Meghan C. Dooley  
John Jacob Evanich  
Danielle K. Frain  
Gregory S. Frye II  
Abigail S. Garner  
Ashley M. Gibbens  
Kerri Elizabeth Gilbert

Jodi Lynn Gilles  
Prtha Alice Goldman  
Krissa Penn Gorman  
April M. Halsey  
Alex Kent Jones  
Karen J. Kacenjar  
Taylor M. Kaprive  
Tara M. Kazemfar  
Parker T. Kelly  
Morgan Elizabeth Keppel  
Jordan J. Kooiman  
Jordan Scott Leach  
Janeth Leija  
Lian Luo  
Hadriano Standre Martin  
Bridget Kathleen Mathews  
Laura K. McElhane  
Cassandra Joy McGowan  
Mary Lou McIntyre  
Natalie Moncayo  
Hannah N. Mora  
Mary Katherine Neumann  
Jessica Marie Nevins  
Gabriela Maria Nuñez

Julie O'Connor  
James Anthony Palmer  
Gabrielle Perrone  
Thomas R. Polito Jr  
Ashley S. Rahner  
Lindsey M. Rahner  
Jessica Mary Rescigno  
William Patrick Risse  
Dallas M. Roberts  
Megan D. Rollins  
Lauren Elizabeth Sanchez  
Julia Kathryn Schade  
Justin Thomas Seitz  
Tin Thi-Tran Singleton  
Savannah L. Smith  
Jennifer Squires  
Zachary R. Stearns  
Nicole Marie Trivison  
Patricia Sofia Velasco  
Thomas N. Vollmar  
Aja Dudley Wade  
Shelby L. Williams  
Brandon N. Wilson

## DOCTOR OF PLANT MEDICINE

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## **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. 14 in U.S. News & World Report "Top Public Universities" (2016); No. 2 on the Forbes' list of Best Value Public Universities (2016); No. 1 on Value Colleges' list of Top 50 Best Value Colleges (2016); and No. 8 on the Times Higher Education list of best universities for employers to find new hires.

### **Faculty**

- UF has nearly 5,000 faculty members with distinguished records in teaching, research and service, including 36 Eminent Scholar chairs and 44 faculty elections to the National Academy of Sciences, Engineering, the Institute of Medicine or the American Academy of Arts and Sciences.
- Awards include two Pulitzer Prizes, NASA's top award for research, and the Smithsonian Institution's conservation award.

### **Students**

- Ninety-seven percent of incoming freshmen score above the national average (1500/21) on standardized exams. Students admitted for the fall 2017 freshman class had an average 4.4 GPA and an average SAT score of 1930.
- More than 1,285 International Baccalaureate students were enrolled in UF in March 2016. The freshman retention rate of 96 percent is among the highest in the country.
- Among AAU public universities, UF ranked first in master's degrees and second in bachelor's degrees awarded to Hispanic students in 2014.
- Sixty-seven percent of UF full-time freshmen graduate in four years (2011-12 cohort), and 87 percent of UF freshmen graduate within six years (2009-10 cohort).
- Fifty-seven percent of UF graduates leave the university with no student-loan debt. For the remaining students, their average indebtedness is about \$21,603, as compared with the national average of over \$30,000 (2015-16).

**UF**

2017 SPRING  
COMMENCEMENT





## Chain of Office

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

## Academic Mace

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Dating back to the Middle Ages, the mace symbolizes strength and authority. The UF ceremonial mace was created for the university's sesquicentennial celebration in 2003. The 70-inch staff features an alligator sitting atop a globe. The

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 June 2017.

## 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 cross bars on the sleeve. Colored tassels on the degree candidates' caps indicate a candidate's school or college.

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# 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