

Commencement

UF | UNIVERSITY *of*
FLORIDA



Commencement SUMMER 2018

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

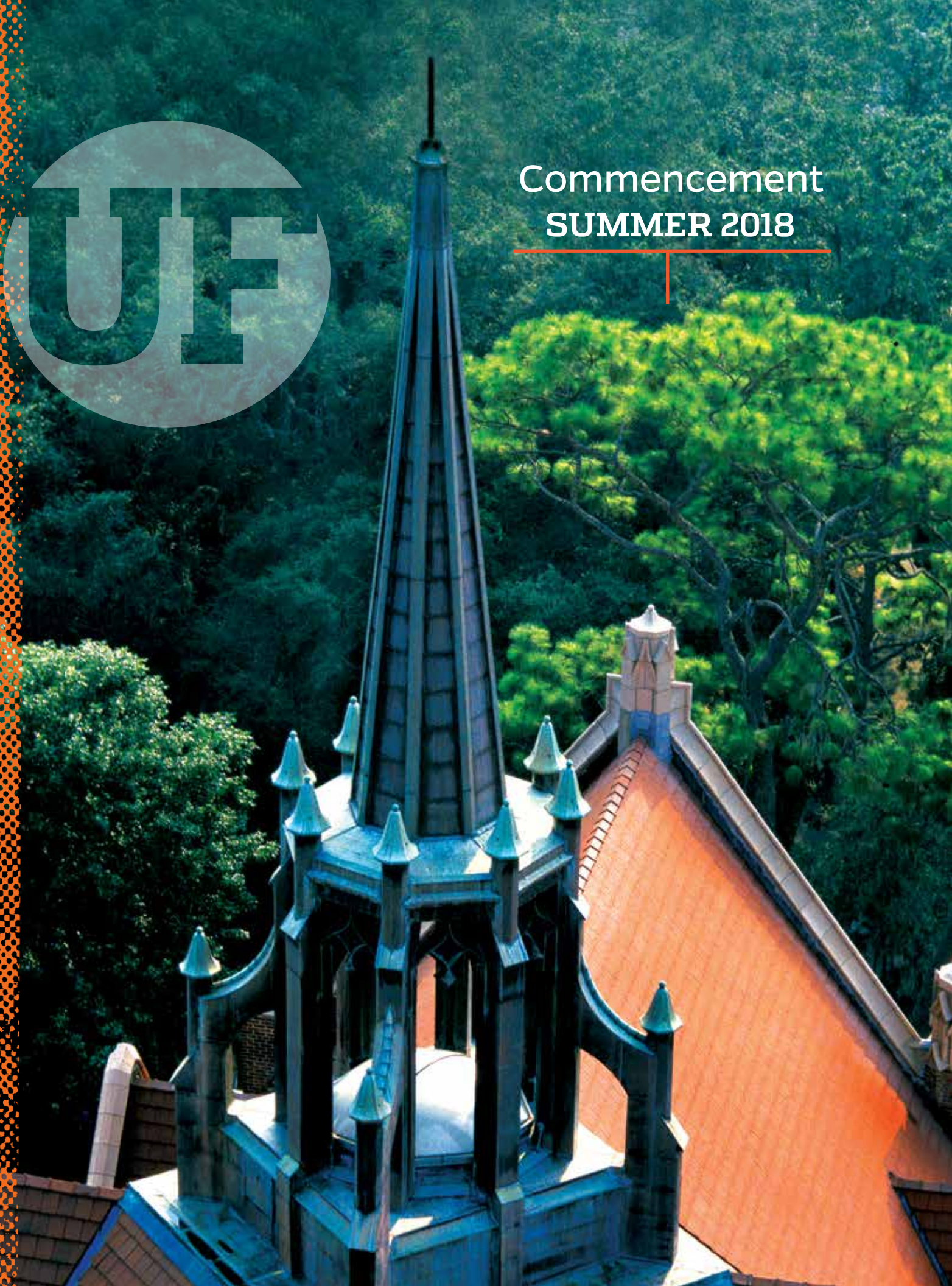
The university requests that all commencement guests remain in their seats while taking photographs; no guests are permitted in the graduates' seating area. Photographs of the graduates as they cross the stage are available through companies that have contracts with the university. Color photographs 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.



Greetings from the President

On behalf of the University of Florida, our faculty and our entire university community, I would like to extend my deepest congratulations to you, the Doctoral Graduates of 2018.

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

Dr. W. Kent Fuchs

Dr. Kent Fuchs became the 12th President of the University of Florida in January 2015. Building on many years of excellence and focused leadership, the university has reached its goal of joining the nation's top-ten public research universities. Dr. Fuchs has set UF on a path to joining the top-five public research universities and becoming the nation's number one university for comprehensive excellence. UF is working toward those goals through the creation of 500 new faculty positions, the addition of advanced and beautiful university facilities and an ongoing \$3 billion fundraising campaign.

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

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



President Fuchs earned his doctorate in electrical and computer engineering from the University of Illinois, and a Master of Divinity from Trinity Evangelical Divinity School. He credits divinity school with teaching him communication and community-building skills, and to balance his innately analytic perspective with a deep appreciation for human relationships. He also holds a Bachelor of Science in Engineering from Duke University.

Dr. Fuchs is married to Linda Moskeland Fuchs, an art historian whose scholarship centers on the sculpture of sarcophagi created in the first centuries of Christian art-making. Mrs. Fuchs has two master's degrees in art history, from the University of Chicago and Cornell, and a third in Biblical studies, from Trinity Evangelical Divinity School. The Fuchs family has three sons, a daughter, and three grandchildren.

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

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COMMENCEMENT AGENDA - FRIDAY, AUGUST 10, 4:00 p.m.

| | |
|-----------------------------------|--|
| Presiding | W. Kent Fuchs <i>President</i> |
| Processional | Gainesville Brass Quintet |
| National Anthem | Anthony Offerle Gainesville Brass Quintet |
| Welcome | W. Kent Fuchs |
| Introductions | Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i> |
| Commencement Address | W. Gregory Sawyer <i>Professor, Mechanical and Aerospace Engineering</i> |
| Presenting Candidates for Degrees | Joseph Glover |
| Conferring of Degrees | Robert Stern <i>Member, UF Board of Trustees</i> |
| Closing Remarks | W. Kent Fuchs |
| Alma Mater | Anthony Offerle Gainesville Brass Quintet |
| Recessional | Gainesville Brass Quintet |
| Postlude | Gainesville Brass Quintet |



Commencement Speaker

W. Gregory Sawyer

Greg Sawyer is a professor, engineer, scientist, cancer researcher and cancer survivor who has turned his attention from exploring outer space to exploring new frontiers in the battle against cancer.

A professor of mechanical engineering at the University of Florida, Greg was a member of the original Mars Rover design team at NASA's Jet Propulsion Laboratory. He helped design equipment for the Mars Pathfinder's Sojourner Rover that surveyed the Martian landscape, and decades later he designed and built the first moving mechanical experiments that operated while exposed to the harsh low-Earth orbit environment aboard the International Space Station.

In 1998, while a Ph.D. student at Rensselaer Polytechnic Institute, Greg unveiled a molecular dynamics simulation at the prestigious TED conference in Monterey, Calif. The program – written with college roommate Torkel Svanes – was designed to run on desktop computers rather than supercomputers and helped researchers quickly test hypotheses and interact with atoms in motion.

Twenty years later, Greg's approach to cancer research follows the same mold, with a focus on allowing scientists to visualize and interact with cancer. Using bio-printing techniques and other approaches pioneered at UF's Herbert Wertheim College of Engineering, his team builds tumors from patient's cancer cells. This gives researchers



the opportunity to test therapies and study their biology in 3D, real time in the laboratory.

After his own diagnosis with stage-IV cancer, Greg converted his laboratory in surface engineering into a center for cancer and tumor engineering. He has taught thousands of students and mentored dozens of PhD students – many of whom, like Greg, now work at the interfaces between engineering, science and biomedicine. He is a member of the National Academy of Inventors and a UF Distinguished Teaching Scholar who holds dozens of patents and has authored over 200 scientific publications.

Greg and his wife, Carol, have two sons, William, 17, and Charles, 13.



GRADUATE SCHOOL

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

DOCTOR OF PHILOSOPHY

Mohammad Y. Abdulrahman

Major: *Geography*

Dissertation: Channel Bed and Geometry Changes in the Upper Atchafalaya River 1967 to 2006

Dissertation Chair: J. Mossa

Yasmeen M. Abouelhassan

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Discovery and Mechanistic Studies of Novel Bacterial Biofilm-Eradicating Agents

Dissertation Chair: R. W. Huigens III

Denny Fe Garcia Agana

Major: *Epidemiology*

Dissertation: Identifying Primary Care Relevant Risk Factors to Reduce Readmissions

Dissertation Chair: C. L. Striley

Shakeel Ahmed

Major: *Rehabilitation Science*

Dissertation: Acute Intermittent Hypoxia and Inspiratory Threshold Loading as Strategies to Enhance Inspiratory

Muscle Function

Dissertation Chair: A. D. Martin III

Ibtisam Hilal Al Abri

Major: *Food and Resource Economics*

Dissertation: Building Resilient, Firewise Forests: Evaluating Wildfire Management Strategies in a Stochastic

Dynamic Framework

Dissertation Chair: K. A. Grogan

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

Abdullah A. Alalwan

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Assessment of the Use of Warfarin in Bariatric Surgery Patients

Dissertation Chair: A. G. Hartzema

Ahmad Mohammad Hassan Al-Bashaireh

Major: *Nursing Sciences*

Dissertation: Comparison of Bone Turnover Markers between Young Adult Male Smoker and Nonsmokers

Dissertation Chair: M. Weaver

Mohammad Shabib Al-Khaldi

Major: *Coastal and Oceanographic Engineering*

Dissertation: Turbulence over an Inner-Shelf Influenced by Waves, Tides, and Thermal Stratification

Dissertation Chair: A. Valle-Levinson

Shaikha Helal Al-Kuwari

Major: *Anthropology*

Dissertation: Cultural Beliefs of Type-2 Diabetes among First and Second Generation Arab American Muslims in

Dearborn, Michigan

Dissertation Chair: H. R. Bernard

Abeer R. Almudaihim

Major: *Nutritional Sciences*

Minor: *Agricultural Education and Communication*

Dissertation: Comprehensive Home Food Environment Intervention for College Freshmen Living in a Residence Hall

Dissertation Chair: K. P. Shelnett

Brian M. Amos

Major: *Political Science*

Dissertation: Gerrymandering in Florida and the Nation

Dissertation Chair: D. A. Smith

Rodrigo Antunes

Major: *Civil Engineering*

Dissertation: Effects of Aggregate Gradation on Aggregate Packing

Dissertation Chair: M. Tia

Clayton W. Argenbright

Major: *Materials Science and Engineering*

Dissertation: Effect of Nanoscale and Hierarchical Topographies on the Antifouling Efficacy of Silicone Surfaces

Dissertation Chair: A. B. Brennan

Danielle Marianne Arnold

Major: *Animal Sciences*

Dissertation: Approaching Challenges in Animal Conservation: Understanding Elephant Reproductive Biology and

Utilizing Animal Behavior Research Experience to Engage Students in Science

Dissertation Chair: E. K. Miller Cushon

Aurélia Marie Danielle Aubert

Major: *History*

Dissertation: Empires of Liberty: Republicanism and Slavery in Napoleonic France and the American South

Dissertation Chair: W. Link

Kelsey L. Autin

Major: *Counseling Psychology*

Dissertation: Career Development in Undocumented Immigrant Young Adults: A Qualitative Analysis

Dissertation Chair: R. D. Duffy

Eyup Serdar Ayaz

Major: *Computer Science*

Dissertation: Geometric Algorithms for Witness Sets and Guard Sets in Piecewise Linear Models

Dissertation Chair: A. Ungor

Hassan Azad

Major: *Design, Construction and Planning*

Dissertation: Computer Modeling of Sound Diffusion and Scattering Coefficients and Their Influence on the Diffusivity

and Acoustic Quality of Architectural Spaces

Dissertation Chair: G. W. Siebein

Jing Bai

Major: *Food Science*

Dissertation: Spoilage Indicators for Determining Tuna and Mahi-Mahi Quality and Safety

Dissertation Chair: P. J. Sarnoski

Ray Bai

Major: *Statistics*

Dissertation: Bayesian High-Dimensional Models with Scale-Mixture Shrinkage Priors

Dissertation Chair: M. Ghosh

Navid Bargrizan

Major: *Music*

Dissertation: Microtonality, Technology, and (Post)Dramatic Structures in the Theatrical Music of Harry Partch and

Manfred Stahnke

Dissertation Chair: S. dos Santos

Nathan S. Barnwell

Major: *Aerospace Engineering*

Dissertation: Free-Space Optical Links for Small Spacecraft Navigation, Timing, and Communication

Dissertation Chair: J. Conklin

Ricardo Barroso Ferreira

Major: *Chemistry*

Dissertation: Triiron Complexes for the Study of Nitrogen Fixation

Dissertation Chair: L. J. Murray

Estefania Mercedes Basurto Cedeño

Major: *Health and Human Performance*

Dissertation: Developing a Resilience Model for Destinations: An Application to Ecuador

Dissertation Chair: L. Pennington

Craig C. Bateman

Major: *Entomology and Nematology*

Dissertation: Patterns of Coevolution among Symbiotic Fungi, Bacteria, and Scolytine Beetles

Dissertation Chair: J. Hulcr

Martha Battaglin Ramos

Major: *Design, Construction and Planning*

Dissertation: The Restorative Urban Realm: A Psychosocial Approach to Construct the Restorative Urban

Experiential Landscape

Dissertation Chair: T. S. Hoctor

Jody Nicole Berman

Major: *Art History*

Dissertation: Laughing 'Til It Hurts: Race, Humor, and Subversion in the Work of Ten Artists

Dissertation Chair: R. E. Poynor

Dissertation Co-chair: P. A. Ortiz

Elizabeth M. Beshearse

Major: *Nursing Sciences*

Dissertation: Source Attribution of Illnesses Transmitted Commonly by Food and Water in the United States Using

Structured Expert Judgment

Dissertation Chair: J. Cimiotti

Melissa M. Bianchi

Major: *English*

Dissertation: Simulated Species: The Question of the Animal in Digital Games

Dissertation Chair: T. A. Harpold

Joseph B. Black

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: GRK5 Promotes Prostate Cancer Progression

Dissertation Chair: Y. Daaka

Eric Carl Blair

Major: *Industrial and Systems Engineering*

Dissertation: Models and Algorithms for Preventive Maintenance Scheduling with Hierarchical Set-Ups

Dissertation Chair: Y. Guan

Dissertation Co-chair: E. Akcali

Amanda Boczkowski

Major: *Medical Sciences—Medical Physics*

Dissertation: Design, Construction, and Validation of a Novel Collimation System to Perform Proton Stereotactic

Radiotherapy Using a Mevion S250 Proton Therapy Unit

Dissertation Chair: F. J. Bova

Carolyn C. Bradley

Major: *English*

Dissertation: John O'Brien's *The Review of Contemporary Fiction*: A Love Letter

Dissertation Chair: M. C. Bryant

William Marshall Brewer

Major: *Materials Science and Engineering*

Dissertation: Investigation of SiGe FinFETs and Vertically Stacked Nanowires via Atom Probe Tomography

Dissertation Chair: K. S. Jones

Daniel J. Brooker

Major: *Physics*

Dissertation: Precision Predictions of Primordial Power Spectra

Dissertation Chair: R. P. Woodard

Kevin Edward Buettner

Major: *Chemical Engineering*

Dissertation: Incorporating Complex Particle Properties into the Closure Models for Continuum Simulations of

Granular Flows

Dissertation Chair: J. S. Curtis

James D. Bullock II

Major: *Chemistry*

Dissertation: *Trans-N-Heterocyclic Carbene Platinum (II) Acetylides and Their Application in Deep Blue Organic*

Light-Emitting Diodes

Dissertation Chair: K. S. Schanze

Dissertation Co-chair: R. K. Castellano

Larry Edwin Burrell II

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Association of Adolescent Perceived Peer Condom Use Norms and Sexual Health among Adult Men

Dissertation Chair: N. Ennis

Dissertation Co-chair: M. E. Robinson

Zachary Ronald Dylan Thomas Bush

Major: *Physics*

Dissertation: Sub-Photon per Second Detection Using Optical Heterodyne Interferometry

Dissertation Chair: G. Mueller

Earlesha T. Butler

Major: *Mass Communication*

Dissertation: The Contemporary Black Press: Journalists Perceived Shared Professional Values, Newsroom

Community Role, and Self-Empowerment

Dissertation Chair: B. E. Tripp

Xuan Cao

Major: *Statistics*

Dissertation: Graphical Models, Nonlocal Priors in High-Dimensional Bayesian Analysis

Dissertation Chair: K. Khare

Dissertation Co-chair: M. Ghosh

Zhendong Cao

Major: *Coastal and Oceanographic Engineering*

Dissertation: Baroclinic Effects on the Long-Term Estuarine Morphodynamic Evolution

Dissertation Chair: M. Olabarrieta Lizaso

Melissa Raquel Cervantez

Major: *Psychology*

Dissertation: Cortical Processing during Reward Based Decision-Making

Dissertation Chair: N. E. Rowland

Dissertation Co-chair: A. Keil

Dee Duygu Cetin-Berber

Major: *Research and Evaluation Methodology*

Dissertation: Examining the Performance of Multilevel Multiple Imputation Methods for Propensity Score Analysis

with a Continuous Treatment

Dissertation Chair: W. L. Leite

Choeeta Chakrabarti

Major: *Anthropology*

Dissertation: Trump, the Alt-Right and Modern Populism in America

Dissertation Chair: C. McCarty

Saptarshi Chakraborty

Major: *Statistics*

Dissertation: Theory and Applications of Markov Chain Monte Carlo Techniques

Dissertation Chair: K. Khare

Dissertation Co-chair: S. W. Wong

Krittapas Chanchaiworawit

Major: *Astronomy*

Dissertation: Discovery of the Highest Redshift Protocluster: Lyman Alpha Emitters at $z=6.5$

Dissertation Chair: R. Guzman

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

Nilovna Chatterjee

Major: *Forest Resources and Conservation*

Minor: Soil and Water Sciences

Dissertation: Depth-Wise Distribution of Soil-Carbon Stock under Shaded-Perennial Agroforestry Systems: Case Studies from India and Costa Rica

Dissertation Chair: R. P. Nair

Dissertation Co-chair: V. D. Nair

Chao Chen

Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*

Dissertation: Observational Studies in Inflammatory Bowel Disease

Dissertation Chair: A. G. Hartzema

Chen Chen

Major: *Astronomy*

Dissertation: The Gaseous Environments of Quasars: Outflows, Feedback and Cold Mode Accretion

Dissertation Chair: F. Hamann III

Dissertation Co-chair: V. L. Sarajedini

Hao Chen

Major: *Public Health*

Dissertation: Carbon Nanotubes Modulate Host Pulmonary Immune Responses and Respiratory Virus Infection

Dissertation Chair: T. L. Sabo-Attwood

Li-Li Chen

Major: *Political Science*

Dissertation: Women's Mixed Experiences during the United Nations (UN) Peace Operations in Post-Intervention Timor-Leste

Dissertation Chair: L. E. Sjoberg

Karishma Sanjay Chhabria

Major: *Public Health*

Dissertation: Investigating the Impact of Biopsychosocial Factors on Treatment Outcomes in Head and Neck Cancer Patients

Dissertation Chair: G. D. Carnaby

Dissertation Co-chair: A. V. Blue

Alexander Barrett Chidakel

Major: *Interdisciplinary Ecology*

Dissertation: Institutions, Governance, and the Economic Performance of Protected Areas in Southern Africa

Dissertation Chair: B. A. Child

Dissertation Co-chair: G. Barnes

Keith George Christopher

Major: *Chemical Engineering*

Dissertation: Iontophoresis via Contact Lenses

Dissertation Chair: A. Chauhan

Eunjin Chun

Major: *Linguistics*

Dissertation: The Role of Prediction in Adaptation: An Evaluation of Error-Based Learning Accounts

Dissertation Chair: E. Kaan

Jung Won Chun

Major: *Mass Communication*

Dissertation: Understanding Empowerment Process of Willingness to Speak out on Social Media: The Effects of Perceived Opinion Congruency, Online Supportive Communication, and Psychological Empowerment

Dissertation Chair: M. J. Lee

Andrew Perry Clark

Major: *Classical Studies*

Dissertation: Solon the Poet, Solon the Lawgiver, Solon the Sage: The Intersecting Legends of Solon

Dissertation Chair: R. S. Wagman

Blake C. Colclasure

Major: *Agricultural Education and Communication*

Dissertation: Effects of Inquiry-Based Instruction in an Environmentally Focused Agriscience Curriculum on Students Content Knowledge Achievement, Critical Thinking Ability, and Environmental Attitude

Dissertation Chair: A. C. Thoron

Zachary K. Collier

Major: *Research and Evaluation Methodology*

Dissertation: Data Mining Techniques to Estimate Propensity Scores for Categorical and Continuous Treatments

Dissertation Chair: W. L. Leite

Cristina Colomer Winter

Major: *Medical Sciences—Immunology and Microbiology*

Dissertation: Significance of (p)ppGpp and Manganese Homeostasis to *Enterococcus faecalis* Systemic Infections

Dissertation Chair: J. A. Lemos

Anthony Coman

Major: *English*

Dissertation: CinemaScope Aesthetics: Technology, Style, and Meaning

Dissertation Chair: M. C. Turim

David J. Cox

Major: *Psychology*

Dissertation: Influences on Delay and Probability Discounting in Humans

Dissertation Chair: J. Dallery

James Matthew Crandall

Major: *Anthropology*

Dissertation: The Transformations of Empire: Negotiating Inka and Spanish Colonialism in an Upper Amazonian Community

Dissertation Chair: A. Oyuela-Caycedo

Earl Charles Crew

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Microlongitudinal Assessment of Non-Motor Disturbances in Parkinson's Disease: Influence of Sleep on Pain, Mood, and Cognition

Dissertation Chair: M. E. Robinson

Paul E. Crittenden

Major: *Mechanical Engineering*

Dissertation: Numerical Methods for Single and Two-Phase Flow Developed to Determine the Stability of Rapidly Expanding Contact and Particle Interfaces

Dissertation Chair: S. Balachandar

Khanh Quoc Dang

Major: *Mechanical Engineering*

Dissertation: Atomistic Simulations of Dislocation Properties and the Role of Stress State in Aluminum

Dissertation Chair: D. Spearot

Lindsey E. Darwin

Major: *Health and Human Performance*

Dissertation: The Leaking Pipeline: Voluntary Occupational Turnover and The Experiences of Former NCAA Female Assistant Coaches

Dissertation Chair: M. Sagas

Dipsikha Debnath

Major: *Physics*

Dissertation: Generic and Sensitive Searches for New Physics

Dissertation Chair: K. T. Matchev

Christopher D. DeCubellis

Major: *Agricultural Education and Communication*

Dissertation: Factors that Influence Middle and High School Student Participation in 4-H Clubs

Dissertation Chair: R. K. Barrick

Alissa C. Deming

Major: *Veterinary Medical Sciences*

Dissertation: The Role of Otarine herpesvirus-1 in California Sea Lion (*Zalophus californianus*) Urogenital Carcinoma

Dissertation Chair: J. F. Wellehan Jr.

Adrienne Danielle deNoyelles

Major: *History*

Dissertation: The Lung Block: Tuberculosis and Contested Spaces in Progressive-Era New York

Dissertation Chair: J. S. Adler

Meghan Deshais

Major: *Psychology*

Dissertation: Evaluations of Imitation Training with Children with Autism

Dissertation Chair: T. R. Vollmer

Allyson D. Diggins

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Understanding Physical Activity Behavior among Black Female College Students: An Exploration of the Theory of Planned Behavior and PEN-3 Model

Dissertation Chair: N. Ennis

Qian Ding

Major: *Rehabilitation Science*

Dissertation: Neural Adaptations after Non-Paretic Hand Exercise to Task-Failure in Chronic Stroke

Dissertation Chair: C. Patten

Phillip John Dixon

Major: *Chemical Engineering*

Dissertation: Translational Research in Ophthalmic Drug Delivery from Lab to Clinic

Dissertation Chair: A. Chauhan

Arthur Reginald Dizon

Major: *Chemical Engineering*

Dissertation: Optimization of Electrokinetic Dewatering of Phosphatic Clay Suspension and Geometric Effects on Electrochemical Impedance Spectra of Gold Interdigitated Electrodes

Dissertation Chair: M. E. Orazem

Rongrong Dong

Major: *Curriculum and Instruction*

Dissertation: Teaching Reading and Writing beyond High-Stakes Testing: One High School Exemplary Chinese Language Arts Teacher's Efforts in Nurturing Readers and Writers under a Test-Driven Culture

Dissertation Chair: D. Fu

Leilei Duan

Major: *Design, Construction and Planning*

Dissertation: Exploring Geodesign: Using Three-Dimensional Parametric Modeling Techniques in Conjunction with Two-Dimensional Land Use Models to Better Visualize Future Growth

Dissertation Chair: P. D. Zwick

Dissertation Co-chair: I. Bejleri

Nicholas David Ducharme-Barth

Major: *Fisheries and Aquatic Sciences*

Dissertation: Using Vessel Monitoring System Data to Understand the Spatial and Temporal Dynamics of the Commercial Vertical Line Fishery for Reef Fish in the Gulf of Mexico

Dissertation Chair: R. Ahrens

Isaac D. Duerr

Major: *Agricultural and Biological Engineering*

Dissertation: Temporal and Spatio-Temporal Modeling with Applications to Biological Processes

Dissertation Chair: N. A. Bliznyuk

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

Brenda Wells Dyal

Major: *Nursing Sciences*

Dissertation: Discrimination of Pain Type in Adults with Sickle Cell Disease Examination of the Association between PAINReportIt Sensory Pain Quality Descriptors and Quantitative Sensory Testing

Dissertation Chair: D. J. Wilkie

Dissertation Co-chair: M. O. Ezenwa

Daniel J. Eizenga

Major: *Political Science*

Dissertation: Managing Political Liberalization after Multiparty Elections: Regime Trajectories in Burkina Faso, Chad, and Senegal

Dissertation Chair: L. A. Villalon

Rasha Assad Elhesha

Major: *Computer Engineering*

Dissertation: Developing Efficient Algorithms to Identify Patterns of Biological Networks

Dissertation Chair: T. Kahveci

Johanna Paulina Espin Moscoso

Major: *Sociology*

Dissertation: Regulations, Enforcement and Policies to Address Environmental Harms in Artisanal and Small-Scale Gold Mining (ASGM) in Peru

Dissertation Chair: S. G. Perz

Catherine Fahey

Major: *Interdisciplinary Ecology*

Dissertation: The Role of Plant-Soil Interactions in Plant Invasion and Response to Chronic Drought

Dissertation Chair: S. Flory

Farimah Farahmandi

Major: *Computer Engineering*

Dissertation: Hardware Trust Verification using Formal Methods

Dissertation Chair: P. K. Mishra

Jixin Feng

Major: *Electrical and Computer Engineering*

Dissertation: Jamming Attacks to Partition Wireless Networks and Defensive Strategies

Dissertation Chair: J. M. Shea

Maureen Patricia Fennessy

Major: *Curriculum and Instruction*

Dissertation: Reading and Writing in Sixth-Grade Science Classrooms

Dissertation Chair: Z. Fang

Fernanda Carolina Ferreira

Major: *Animal Sciences*

Dissertation: Studies on Seasonality of Dairy Production across the U.S.

Dissertation Chair: A. De Vries

Jasper Colin Fessmann

Major: *Mass Communication*

Dissertation: Fundamentals of Public Interest Communications

Dissertation Chair: L. L. Hon

Oscar Figueroa III

Major: *Materials Science and Engineering*

Dissertation: Design of High Strength Shape Memory Alloys in the Ni-Ti-Ga Ternary System

Dissertation Chair: M. V. Myers

Evan Matthew Forman

Major: *Chemical Engineering*

Dissertation: Using NMR Diffusometry to Understand Gas Transport in Novel Porous Membranes and Catalysts

Dissertation Chair: S. Vasenkov

Dissertation Co-chair: K. J. Ziegler

Xinyu Fu

Major: *Design, Construction and Planning*

Dissertation: Locally Emerged Adaptation Planning For Sea-Level Rise in the United States: Evidence from Vulnerability

Assessment, Institutional Adaptive Capacity, and Adaptation

Dissertation Chair: Z. Peng

Janak Gaire

Major: *Medical Sciences—Neuroscience*

Dissertation: Assessment of Biological Failure Mechanisms of Intracortical Microelectrodes

Dissertation Chair: K. Otto

Brittany Nicole Gannon

Major: *Nursing Sciences*

Dissertation: Social Networks, Social Capital, and Loneliness of Rural and Sub-Urban Older Adults Living with HIV

Dissertation Chair: J. R. Stacciarini

Alan Garner

Major: *Astronomy*

Dissertation: Probing the Galactic Center with CIRCE

Dissertation Chair: S. S. Eikenberry

Sky Vladimir Georges

Major: *Agricultural Education and Communication*

Dissertation: An In-Depth Analysis of the Lived Experiences of Agricultural Undergraduate Students in Haiti

Dissertation Chair: N. L. Stedman

Bruce Allan Getz Jr.

Major: *Mass Communication*

Dissertation: How Motivation and Instructor Presence Affect Learning a Nonacademic Hands-On Task from a Video Tutorial

Dissertation Chair: Y. Lee

Dissertation Co-chair: D. H. Ostroff

Satyajit Ghosh

Major: *Statistics*

Dissertation: Consistency of High Dimensional Bayesian Time Series

Dissertation Chair: K. Khare

Dissertation Co-chair: G. Michailidis

Tuhin Ghosh

Major: *Chemistry*

Dissertation: Syntheses and Properties of Molecular Manganese-oxo Clusters and Supramolecular Aggregates of Single-Molecule Magnets

Dissertation Chair: G. Christou

Vashkar Ghosh

Major: *Business Administration—Information Systems and Operations Management*

Dissertation: Essays on Operations Strategy and Service Competition

Dissertation Chair: A. J. Vakharia

Emily Louise Gill

Major: *Chemistry*

Dissertation: Mass Spectrometry Innovations for Evaluating the Metabolic Signature of Parkinson's Disease and Deep Brain Stimulation

Dissertation Chair: R. A. Yost

Katie M. Glodzik

Major: *Interdisciplinary Ecology*

Dissertation: Impacts of Saltwater Intrusion and Hydrologic Change to Salt Marsh and Coastal Forest of Florida's Big Bend

Dissertation Chair: D. A. Kaplan

Dihong Gong

Major: *Computer Science*

Dissertation: Towards Building Large-Scale Multimodal Knowledge Graph

Dissertation Chair: Z. Wang

Sarah J. Graves

Major: *Forest Resources and Conservation*

Dissertation: Beyond Greenness: Hyperspectral Signals from Airborne Remote Sensing Data Capture Canopy

Tree Growth Rates

Dissertation Chair: S. A. Bohlman

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

Kristen Marie Gregory

Major: *English*

Dissertation: From Mutants to Masterminds: Cold War America and the Fiction of the Gifted Child

Dissertation Chair: K. B. Kidd

Christopher Robert Greulich

Major: *Nuclear Engineering Sciences*

Dissertation: Computed Tomography of Dry Cask Storage for Nuclear Fuel

Dissertation Chair: J. E. Baciak

Hang Guan

Major: *Computer Engineering*

Dissertation: Image Stacks as Parametric Surfaces: Application to Image Registration and Blind Source Separation

Dissertation Chair: A. Rangarajan

Yao Guan

Major: *Psychology*

Dissertation: Oscillatory Brain Dynamics of False Belief Understanding and Complementation Syntax in Adults and School-Aged Children

Dissertation Chair: M. J. Farrar

Dissertation Co-chair: A. Keil

Andrea Denise Guastello

Major: *Counseling Psychology*

Dissertation: The Impact of Sleep and Executive Functioning on Pediatric Obsessive-Compulsive Disorder Treatment

Dissertation Chair: J. P. McNamara

Dissertation Co-chair: B. Moradi

Zimu Guo

Major: *Electrical and Computer Engineering*

Dissertation: A Framework for Securing Digital Systems against Counterfeiting, Reverse Engineering and Tampering

Dissertation Chair: D. J. Forte

Mandisa Roeleene Haarhoff

Major: *English*

Dissertation: Black in the Apartheid Afterlife of Apartheid: Death and Blackness in Late- and Post-Apartheid Narratives

Dissertation Chair: A. O. Amoko

Ian Kane Hahus

Major: *Agricultural and Biological Engineering*

Dissertation: The Impact of Spatial Resolution on Predicting Hydrology and Ecological Responses in the A.R.M.

Loxahatchee National Wildlife Refuge, Florida

Dissertation Chair: K. W. Migliaccio

Dissertation Co-chair: R. Munoz-Carpena

Alexander Arthur Haluska

Major: *Environmental Engineering Sciences*

Dissertation: Performance Assessments of Bioremediation and Bioaugmentation of Chloroethene DNAPL Source Zones

Dissertation Chair: M. D. Annable

Ziqian Han

Major: *Civil Engineering*

Dissertation: Determination of Barge Impact Loads for the Design of Inland and Coastal Waterway Infrastructure

Dissertation Chair: G. R. Consolazio

Miao He

Major: *Electrical and Computer Engineering*

Dissertation: Methodologies to Enhance Testability and Security of Modern SoCs

Dissertation Chair: M. M. Tehranipoor

William C. Hedderon

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

Rachel Kristin Henesy

Major: *Counseling and Counselor Education*

Dissertation: LGBTQ+ Affirmative Intersectional Counseling: Development and Evaluation of a Training Workshop for Counseling Students

Dissertation Chair: A. Puig

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

Abigail L. Hernandez

Major: *Medical Sciences—Neuroscience*

Dissertation: The Role of Prefrontal Cortical-Medial Temporal Lobe Interactions and Metabolism in Cognitive Aging

Dissertation Chair: S. N. Burke

Ashley Ann Holland

Major: *English*

Dissertation: Visualizing Resistance: The Sustained Archive of Queer Women's Comics from the 1970s to the 2000s

Dissertation Chair: A. M. Ulanowicz

Sierra Amber Holland

Major: *Sociology*

Dissertation: Constructing (M)Otherhood: The Transition to Parenthood for Lesbian Couples

Dissertation Chair: K. L. Broad-Wright

Dissertation Co-chair: T. M. Koropecyk-Cox

Md Marup Hossain

Major: *Food and Resource Economics*

Dissertation: Access to Capital and Subsequent Livelihoods of Poor Households in Bangladesh

Dissertation Chair: C. Mullally

Weijia Hou

Major: *Chemistry*

Dissertation: Aptamer-Functionalized Nanomaterials for Targeted Photodynamic Therapy

Dissertation Chair: W. Tan

Lisa Angelina Howell

Major: *Anthropology*

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

Dissertation Chair: B. H. Chalfin

Jianqiu Huang

Major: *Industrial and Systems Engineering*

Dissertation: Stochastic Optimization: Strong Formulations and Data-Driven Methodologies towards More Reliable Power Systems

Dissertation Chair: Y. Guan

Yun Huang

Major: *Chemistry*

Minor: *Statistics*

Dissertation: Functionalized Conjugated Polyelectrolytes for Biological Applications

Dissertation Chair: K. S. Schanze

Ashley Hudson

Major: *Political Science*

Dissertation: The Democratizing Role of a Few Defiant Catholic Churches in Mexico's 2000 Political Awakening

Dissertation Chair: L. E. Anderson

Dissertation Co-chair: K. D. Wald

Jin Hee Hur

Major: *Special Education*

Minor: *Research and Evaluation Methodology*

Dissertation: Moderator Effects of Dual Language Learner Status on the Instructional Practices and Early Literacy Outcome Relationship

Dissertation Chair: P. Snyder

Chueh-Lung Hwang

Major: *Health and Human Performance*

Dissertation: Vascular Effects of All-Extremity High-Intensity Interval Training versus Moderate-Intensity Continuous Training in Adults with Type 2 Diabetes

Dissertation Chair: D. D. Christou

Hashem Izadi Moud

Major: *Design, Construction and Planning*

Dissertation: Measuring Stress Response in Construction Workers Approached by a Small Unmanned Aerial Vehicle

Dissertation Chair: I. Flood

Dissertation Co-chair: C. J. Kibert

Daniel E. Jackson

Major: *Physics*

Dissertation: Probing Phase Transitions Using High Pressure and High Magnetic Field

Dissertation Chair: J. J. Hamlin

Bochao Jia

Major: *Biostatistics*

Dissertation: Learning Graphical Models for Multiple Types of Biomedical Data

Dissertation Chair: F. Liang

Xiao Jiang

Major: *Biomedical Engineering*

Dissertation: Development of Laminated Paper Based RNA Amplification Devices for Detection of Virus and Virus Aerosols

Dissertation Chair: Z. H. Fan

Joseph John Thalakkottor

Major: *Mechanical Engineering*

Dissertation: Developing a Unified Velocity Boundary Condition for Fluid Flows

Dissertation Chair: K. Mohseni

Tarielle M. Jones

Major: *Materials Science and Engineering*

Dissertation: Astrocytic Differentiation of Human Malignant Glioblastoma U87MG Cells Induced by Porous Poly (1,8-octanediol-co-citrate) Wafers Loaded with All-Trans Retinoic Acid

Dissertation Chair: A. R. Webb

Hayley Sara Kamin

Major: *Psychology*

Dissertation: "We Are Suffering as Mothers": Intergenerational Impacts of Maternal Stress and Depression in the Democratic Republic of Congo

Dissertation Chair: D. Kertes

Orhan Kaplan

Major: *Curriculum and Instruction*

Dissertation: Analyzing the Effects of Motivation, Expectations, and Self-Concept on Eighth-Grade Students' Mathematics Achievement

Dissertation Chair: T. L. Adams

Joanna Karavolias

Major: *Food and Resource Economics*

Dissertation: A Full Market Analysis of the Implications of Raising Broilers without Antibiotics

Dissertation Chair: L. A. House

Elizabeth Diane Kenney

Major: *School Psychology*

Dissertation: Effects of a Scripted, Dialogic Reading Intervention on Young Children's Social and Emotional Learning

Dissertation Chair: T. M. Smith-Bonahue

Ahmed Ezzeldin Khaled

Major: *Computer Engineering*

Dissertation: Architecture and Programming Model for the Social Internet of Things

Dissertation Chair: A. A. Helal

Vipada Khaowroongrueng

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Application of Large-Pore Microdialysis in Pharmacokinetic and Pharmacodynamic Investigation of Therapeutic Monoclonal Antibody

Dissertation Chair: H. C. Derendorf

Matin Kheirkhahan

Major: *Computer Science*

Dissertation: Real-Time Data Monitoring and Machine Learning Methods for Activity Recognition Using Wearable Devices

Dissertation Chair: S. Ranka

Dissertation Co-chair: T. M. Manini

Daehwan Kim

Major: *Health and Human Performance*

Dissertation: Determinants and Outcomes of Flow Experience in Virtual Reality Spectatorship

Dissertation Chair: Y. J. Ko

Dong-Soo Kim

Major: *Design, Construction and Planning*

Dissertation: Forecasting Environmental Impact Assessment of Residential Buildings in Florida under Future Climate Change

Dissertation Chair: R. S. Srinivasan

Dissertation Co-chair: A. R. Chini

Jae Yung Kim

Major: *Business Administration—Finance*

Dissertation: Essays in Financial Economics

Dissertation Chair: J. R. Ritter

Jinhee Kim

Major: *Nutritional Sciences*

Dissertation: Role of Zinc and Metal Transporter SLC39A14 in Murine Skeletal Muscle during Inflammation

Dissertation Chair: R. J. Cousins

Mi-Jung Kim

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: Mitochondrial DNA Deletions in Age-Related Hearing Loss in Mice

Dissertation Chair: S. Someya

Sungwon Kim

Major: *Health and Human Performance*

Dissertation: Concussion Knowledge, Attitude/Perception, and Related Risk Management Practices of High School Girls' Soccer Coaches

Dissertation Chair: D. P. Connaughton

Yena Kim

Major: *Mathematics*

Dissertation: On the Principle of Host Evolution in Immuno-Epidemiological Models

Dissertation Chair: M. Martcheva

Tia Ja'Net Kimball

Major: *Curriculum and Instruction*

Dissertation: The Role of Semiotics on ELLs' Ability to Interpret Figurative Language while Watching American Television Series

Dissertation Chair: M. R. Coady

Derrick D. King

Major: *English*

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

Dissertation Chair: P. E. Wegner

Elizabeth Anne Klinepeter

Major: *School Psychology*

Dissertation: Experiences of Collaborative Service Delivery for Transition-Age Young Adults with ASD

Dissertation Chair: T. M. Smith-Bonahue

Danielle N. Kling

Major: *Microbiology and Cell Science*

Dissertation: *Lactobacillus johnsonii* N6.2 and Phytophenols Modulate mTOR Activity Induced by Diet

Dissertation Chair: C. F. Gonzalez

Sarah Margaret Kniesler

Major: *English*

Dissertation: Longing and Belonging: Genre, Female Desire, and Family in Victorian Women's Sensation Fiction

Dissertation Chair: P. K. Gilbert

Anton Kocheturov

Major: *Industrial and Systems Engineering*

Dissertation: Novel Methods for Multivariate Time Series Analysis

Dissertation Chair: P. M. Pardalos

Leah Julia Koehler

Major: *Psychology*

Dissertation: Exposure of Single-Function Responses to Combined Reinforcement Contingencies

Dissertation Chair: B. A. Iwata

Kendra Noelle Daiss Krietsch

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Impact of Sleep Timing on Dietary Intake and Physical Activity among Youth: An Experimental Single-Subject Sleep Manipulation

Dissertation Chair: D. Janicke

Magdoom Mohamed Kulam Najmudeen

Major: *Mechanical Engineering*

Dissertation: Developments in Magnetic Resonance Imaging with Applications to Transport in Brain

Dissertation Chair: M. Sarntinoranont

Dissertation Co-chair: T. H. Mareci

Grit Kupgan

Major: *Materials Science and Engineering*

Dissertation: Designing and Characterizing Microporous Polymers for Carbon Capture

Dissertation Chair: C. M. Colina

Jacob Adrian Lafo

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Emotion Perception and Reactivity in Essential Tremor

Dissertation Chair: D. Bowers

Tiffany Chenese Lorraine Lang

Major: *Design, Construction and Planning*

Dissertation: Chrome Model for Historic Color Preservation: Authentic Layers of Culture, Color, Heritage

Dissertation Chair: M. B. Portillo

Sarah Elizabeth LaRose

Major: *Agricultural Education and Communication*

Dissertation: Factors Influencing Postsecondary Educational and Occupational Choices of Connecticut Agricultural Science and Technology Program Graduates

Dissertation Chair: A. C. Thoron

Dissertation Co-chair: R. K. Barrick

Howard Andrew Lassiter

Major: *Forest Resources and Conservation*

Dissertation: Photogrammetry and Lidar from the Unmanned Aerial Platform for Measuring the Physical Structure of Forests

Dissertation Chair: B. E. Wilkinson

Casey Riley Lawless

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Impact of Sleep in Children with Cystic Fibrosis

Dissertation Chair: D. A. Fedele

Dissertation Co-chair: D. Janicke

Sheldon R. Lawrence II

Major: *Plant Molecular and Cellular Biology*

Dissertation: Plant Stomatal Guard Cell Redox Proteome In Plant Innate Immunity

Dissertation Chair: S. Chen

Katelyn Marie Lawson

Major: *Fisheries and Aquatic Sciences*

Dissertation: The Use of Life History Traits to Predict Invasion Success of Non-Native Fishes in Peninsular Florida

Dissertation Chair: J. E. Hill

Camilo Ignacio Leal Molina

Major: *Music Education*

Dissertation: Music Teachers' Perceptions of the Design and Use of Specialized Software Applications to Facilitate Music Composition Activities with Students

Dissertation Chair: W. Bauer

Aleuna Lee

Major: *Linguistics*

Dissertation: Effects of Production on Predictive Processing in Young and Older Adults

Dissertation Chair: E. Kaan

Mi Jung Lee

Major: *Rehabilitation Science*

Minor: *Research and Evaluation Methodology*

Dissertation: Developing a Global PROMIS Self-Efficacy Measure for Managing Chronic Conditions

Dissertation Chair: S. Romero

Yeungjeom Lee

Major: *Criminology, Law, and Society*

Dissertation: Psychopathy and Crime: Developmental Pathways of Psychopathic Traits and Situational Influences and Victimization

Dissertation Chair: M. D. Krohn

Yong-Jik Lee

Major: *Curriculum and Instruction*

Dissertation: An Exploratory Study of Preservice Teachers and Their Self Efficacy Beliefs as Teachers of English Language Learners Using Micro Teaching Experiences

Dissertation Chair: E. J. De Jong

Min Li

Major: *Sociology*

Minor: *Statistics*

Dissertation: Determinants of Cognitive Health among the Middle-Aged and Older Chinese

Dissertation Chair: B. A. Zsembik

Ruiqi Li

Major: *Food Science*

Dissertation: Mechanism and Protective Effects of Muscadine Grapes or Wine on Intestinal Inflammation using in vivo and in vitro Models

Dissertation Chair: L. Gu

Xiang Li

Major: *Computer Engineering*

Dissertation: Mining in Online Social Networks: Optimization Models and Adaptive Solutions

Dissertation Chair: M. T. Thai

Xiaolong Li

Major: *Computer Science*

Dissertation: Investigating Real-time Reference Resolution in Situated Dialogue for Complex Problem Solving

Dissertation Chair: K. Boyer

Hua Liu

Major: *Environmental Engineering Sciences*

Dissertation: PM Separation and Re-Suspension Test of Hydrodynamic Unit Operations Modeling, Scaling and Regulations in Urban Drainage System

Dissertation Chair: J. J. Sansalone

Jianqing Liu

Major: *Electrical and Computer Engineering*

Dissertation: Spectrum Efficiency, Energy Efficiency, and Security for Future Wireless Systems

Dissertation Chair: Y. Fang

Tao Liu

Major: *Forest Resources and Conservation*

Dissertation: Multi-View Analysis of Unmanned Aerial System Images for Land Cover Classification

Dissertation Chair: A. H. Abd-Elrahman

Xiaoxian Liu

Major: *Botany*

Dissertation: Alternative Splicing in Basal Angiosperms and *Tragopogon* (Asteraceae)

Dissertation Chair: D. E. Soltis

Dissertation Co-chair: W. B. Barbazuk

Andrew L. Loyd

Major: *Forest Resources and Conservation*

Dissertation: Taxonomy, Biology, Decay Potential, and Pathogenicity of the Laccate (Varnished) *Ganoderma* Species Present in the U.S.

Dissertation Chair: J. A. Smith

Dissertation Co-chair: B. S. Richter

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

Danmeng Luo

Major: *Pharmaceutical Sciences—Medicinal Chemistry*

Dissertation: Discovery, Synthesis and Biological Evaluation of Bioactive Secondary Metabolites from Marine Cyanobacteria

Dissertation Chair: H. Luesch

Iqbal Mahmud

Major: *Medical Sciences—Molecular Cell Biology*

Dissertation: The Role of Death Domain-Associated Protein in Cancer Metabolism

Dissertation Chair: D. Liao

James Oluwaseun Maku

Major: *Agronomy*

Dissertation: Dissecting the Morphological Characteristics, Genetic and Molecular Mechanism of Cultivated Peanut (*Arachis hypogaea* L.)

Dissertation Chair: J. Wang

Paul Chandra Mangal

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Revitalize Cognition: A Proof of Concept Study Using Transcranial and Intranasal Near-Infrared Light Therapy in Older Adults

Dissertation Chair: D. Bowers

Pruthvi Manjunatha

Major: *Civil Engineering*

Dissertation: Identification, Measurement, and Incorporation of Human Factors in Traffic Microsimulation Using Driving Simulator Observations

Dissertation Chair: A. Elefteriadou

Daniel Blaine Marchant

Major: *Botany*

Dissertation: Elucidating Monilophyte Genomics: How Polyploidy, Transposable Elements, and the Alternation of Independent Generations Drive Fern Evolution

Dissertation Chair: D. E. Soltis

Goran Marjanovic

Major: *Mechanical Engineering*

Dissertation: Direct Numerical Simulations of Single and Multiphase Turbulent Plumes in the Forced, Pure, and Lazy Regimes at Large Grashof Numbers

Dissertation Chair: S. Balachandar

Michael Thomas Massengill

Major: *Medical Sciences—Genetics*

Dissertation: Development and Testing of Gene Therapies for Autosomal Dominant Retinitis Pigmentosa

Dissertation Chair: A. S. Lewin

Marc A. Matthews

Major: *Linguistics*

Dissertation: The Roles of Intonation and Pragmatic Context on Predictions of Upcoming Turns in Dialogue

Dissertation Chair: R. Wayland

Dissertation Co-chair: J. R. Valdes Kroff

Matthew R. Mattia

Major: *Horticultural Sciences*

Dissertation: Genome-Wide Association Quantification and Willingness to Pay for Beneficial Polyphenols in Mandarins

Dissertation Chair: F. G. Gmitter Jr.

Damaris Mayans Ramon

Major: *Romance Languages—Spanish*

Dissertation: The Processing of Gender Agreement in Monolingual and Heritage Speakers of Spanish

Dissertation Chair: J. R. Valdes Kroff

Dissertation Co-chair: A. de Prada Perez

Beth Lena-Sherman McGee

Major: *Design, Construction and Planning*

Dissertation: Designing Biophilia into Interior Environmental Practice: A Biophilic Design Assessment Tool Development

Dissertation Chair: N. Park

Chesney Ann McOmber

Major: *Political Science*

Dissertation: The Feminization of Rural Space: Exploring Gender, Power, and Demographic Change in Africa

Dissertation Chair: L. E. Anderson

Dissertation Co-chair: M. H. Bernhard

Jaclyn Donelle McWhorter

Major: *Anthropology*

Dissertation: A Philosophy of Life: Capoeira and Social Inclusion in the Periphery of Sao Paulo, Brazil

Dissertation Chair: P. F. Collings

Yash Ajit Mehta

Major: *Aerospace Engineering*

Dissertation: Fully Resolved Inviscid Simulations and Modeling of Shock Interacting with Spherical Particles

Dissertation Chair: S. Balachandar

Johanna Mellis

Major: *History*

Dissertation: Negotiation through Sport: Navigating Everyday Life in Socialist Hungary, 1948-1989

Dissertation Chair: A. Freifeld

Mary Morris Merrill

Major: *Public Health*

Dissertation: Indolent Bystanders: Surveillance of Domestic and Wild Animals to Inform Human and Animal Vector-Borne Pathogen Ecology

Dissertation Chair: S. M. Wisely

Sadaf Arefi Milani

Major: *Epidemiology*

Dissertation: Improving Screening for Mild Cognitive Impairment and Dementia among Racial and Ethnic Minorities Using the Montreal Cognitive Assessment

Dissertation Chair: C. L. Striley

Wenli Mo

Major: *Astronomy*

Dissertation: Active Galactic Nuclei in Massive and Distant Galaxy Clusters

Dissertation Chair: A. H. Gonzalez

Roshanak Mohammadivojdan

Major: *Industrial and Systems Engineering*

Dissertation: Optimization Models for Inventory Planning in Supply Chains with Supplier Selection and Channel Allocation Decisions

Dissertation Chair: J. P. Geunes

Siti Jariani Binti Mohd Jani

Major: *Soil and Water Sciences*

Dissertation: Composition, Sources, and Bioavailability of Nitrogen in Urban Waters

Dissertation Chair: G. Toor

Dissertation Co-chair: A. K. Koeser

Rene Arnoldo Molina

Major: *Electrical and Computer Engineering*

Dissertation: Responsive Deep Brain Stimulation for the Treatment of Medically Refractory Freezing of Gait in Parkinson's Disease

Dissertation Chair: A. Gunduz

Christina M. Moloney

Major: *Medical Sciences—Neuroscience*

Dissertation: Dissecting the Role of Matrin 3 in Amyotrophic Lateral Sclerosis and Distal Myopathy

Dissertation Chair: J. M. Lewis

Ryan J. Montes

Major: *Chemical Engineering*

Dissertation: Microfluidic Concentration and Purification of DNA Due to Electro-Hydrodynamic Migration

Dissertation Chair: J. E. Butler

Dissertation Co-chair: A. J. Ladd

Jennifer F. Moore

Major: *Wildlife Ecology and Conservation*

Dissertation: Ecology and Conservation of Mammalian Communities and the Impact of Illegal Human Activities in Nyungwe National Park, Rwanda

Dissertation Chair: W. E. Pine III

Tara Ann Morrissette

Major: *Counseling Psychology*

Dissertation: Associations of Stress, Coping, and Social Support with Health-Related Quality of Life among U.S. Adults

Dissertation Chair: C. M. Tucker

Paul Eugene Morse

Major: *Anthropology*

Dissertation: Primates of the Paleocene-Eocene Thermal Maximum in North America: Systematics, Size, and Dietary Ecology during Extreme Global Warming

Dissertation Chair: J. I. Bloch

Shylock Muyengwa

Major: *Interdisciplinary Ecology*

Dissertation: Elite Capture of Community-Based Natural Resources Management Projects in Southern Africa

Dissertation Chair: B. A. Child

Anita Seen Neal

Major: *Entomology and Nematology*

Dissertation: Distribution, Biology, and Management of *Myllocerus undecimpustulatus undatus* Marshall (Coleoptera: Curculionidae) in the Landscape and Horticulture Industry

Dissertation Chair: R. D. Cave

Tempestt Ja'Nice Neal

Major: *Computer Engineering*

Dissertation: A Feasibility Study of Mobile Device Usage Data for Identification and Soft Biometric Classification

Dissertation Chair: D. Woodard

Sean Russell Niemi

Major: *Mechanical Engineering*

Dissertation: Frictional Instabilities in Gemini Hydrogel Contacts

Dissertation Chair: W. G. Sawyer

Dissertation Co-chair: C. Taylor

Bijan Nili

Major: *Mechanical Engineering*

Dissertation: Multi-Field Simulation of the Spark Plasma Sintering for Fabrication of Commercial Nuclear Fuel Pellets

Dissertation Chair: G. Subhash

Weijia Niu

Major: *Chemistry*

Dissertation: Design and Synthesis of N-Heterocyclic Carbene-Gold (I) Complexes, and Their Bioconjugation for Targeted Drug Delivery

Dissertation Chair: A. S. Veige

Olivier Nsengiyumva

Major: *Chemistry*

Dissertation: Polysilicon Acetals and Camphor-Derived Polymers as Potential Replacements for Commodity Plastics

Dissertation Chair: S. A. Miller

Steven Tyler Oberheim

Major: *Counseling and Counselor Education*

Dissertation: Content Development and Initial Psychometric Analysis of the Problematic Hypersexuality Scale (PHS)

Dissertation Chair: M. K. DePue

Dissertation Co-chair: A. C. Manley

Edmond A. Olguin

Major: *Medical Sciences—Medical Physics*

Dissertation: Pediatric Dosimetry Tools for Diagnostic Imaging and Proton Therapy Applications

Dissertation Chair: W. E. Bolch

Toluwani Christy Oloke

Major: *Mass Communication*

Dissertation: Developing Cultural Sensitivity in Framing Health Advocacy Messages: The Female Genital Mutilation Intervention in Nigeria

Dissertation Chair: L. L. Hon

Samantha R. Paige

Major: *Health and Human Performance*

Minor: *Mass Communication*

Minor: *Research and Evaluation Methodology*

Dissertation: Developing an Instrument to Measure eHealth Literacy

Dissertation Chair: M. L. Stellefson

Dissertation Co-chair: J. Cheong

Lei Pan

Major: *Microbiology and Cell Science*

Dissertation: Mechanisms Involved in Activity and Inhibition of PrbP from *Liberibacter asiaticus*

Dissertation Chair: G. L. Lorca

Joshua R. Papacek

Major: *Soil and Water Sciences*

Dissertation: Shifting Nutrient Forms and Ratios: Implications for Harmful Algal Blooms and Nitrogen Cycling in a Subtropical Estuary

Dissertation Chair: P. W. Inglett

Kyoung Shin Park

Major: *Health and Human Performance*

Dissertation: Musical Emotion and Familiarity Alters Forward Gait Behaviors in People with Parkinson's Disease

Dissertation Chair: C. M. Janelle

Aditi G. Patel

Major: *Medical Sciences—Health Outcomes and Policy*

Dissertation: Investigating Network Adequacy Standards for Provider Networks in Medicaid Managed Care

Dissertation Chair: E. A. Shenkman

Dissertation Co-chair: W. B. Vogel

Andres Alfredo Pech Cervantes Sr.

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

Ze Peng

Major: *Agronomy*

Dissertation: The Genetic and Genomic Studies of Nodulation in Cultivated Peanut *Arachis hypogaea*

Dissertation Chair: J. Wang

Daniela-Cristina Popescu

Major: *Health Services Research*

Dissertation: Factors Associated with Child and Maternal Mortality in the Middle East and North Africa (MENA) Region:

A Panel Study

Dissertation Chair: R. P. Duncan

Ravin Poudel

Major: *Plant Pathology*

Dissertation: Statistical and Experimental Investigations to Support Microbiome Based Agriculture: A Study of the

Tomato Rhizobiome

Dissertation Chair: K. A. Garrett

Debra A. Prykanowski

Major: *Special Education*

Dissertation: An Examination of Trial-Based Functional Analysis with Intervention in the Home for Young Children with

or at Risk for Autism Spectrum Disorder

Dissertation Chair: M. A. Conroy

Dissertation Co-chair: B. Reichow

Yuxi Qiu

Major: *Research and Evaluation Methodology*

Dissertation: Posterior Predictive Model Checking to Evaluate the Performance of Dynamic Bayesian Networks

Dissertation Chair: A. C. Manley

Tiphonie E. Raffegeau

Major: *Health and Human Performance*

Dissertation: The Role of Cognition in Locomotor Balance across the Lifespan

Dissertation Chair: C. J. Hass

Fahim Rahman

Major: *Electrical and Computer Engineering*

Dissertation: Secure Hardware: From Device to Systems

Dissertation Chair: M. M. Tehranipoor

Dissertation Co-chair: Y. Jin

Akshay Umesh Rajopadhye

Major: *Materials Science and Engineering*

Dissertation: Understanding the Fundamental Role of Surfactant Structures in the Inhibition of Carbon Steel Corrosion in

Acidic Medium

Dissertation Chair: B. M. Moudgil

Mohammad Abdur Razzak

Major: *Entomology and Nematology*

Dissertation: Development of an Integrated Approach for Managing Melon Thrips, *Thrips palmi* Karny (Thysanoptera:

Thripidae) in Vegetable Crops

Dissertation Chair: D. R. Seal

Byron Real

Major: *Anthropology*

Dissertation: The Wretched of the Forest: Social Vulnerability, Disaster, and Genocide among the Uncontacted

Dissertation Chair: A. R. Oliver Smith

Michelle E. Reid

Major: *Chemistry*

Dissertation: Stable Isotope Tracer Analysis of Exhaustive Exercise-Induced Metabolism Using Ultra-High Performance

Liquid Chromatography-High Resolution Mass Spectrometry

Dissertation Chair: R. A. Yost

YooJung Rhee

Major: *Health and Human Performance*

Dissertation: Senior Bicyclists' Knowledge, Attitudes, and Behaviors regarding Bicycle Safety and Relevant Laws

Dissertation Chair: D. P. Connaughton

Natalie Marie Khoury Ridgewell

Major: *Curriculum and Instruction*

Dissertation: Is It the Right "Fit?" Florida Teachers' Motivations for Choosing a Teaching Career Using the Fit-Choice Scale

Dissertation Chair: A. J. Adams

Lisa M. Roberts

Major: *Health and Human Performance*

Dissertation: Age-Related Differences in Speed vs. Accuracy during Bimanual Movements

Dissertation Chair: J. H. Cauraugh

Daniel Martin Ross

Major: *Mechanical Engineering*

Dissertation: Polishing of Transparent Polycrystalline YAG Ceramics Using Magnetic Field-Assisted Finishing

Dissertation Chair: H. Greenslet

Cristina Ruiz-Poveda Vera

Major: *English*

Dissertation: The Ineffable in Contemporary Ibero-American Cinema: Memory, Death, and Spiritual Journeys

Dissertation Chair: B. C. Mennel

Shabnam Rumpf-Monadzadeh

Major: *Design, Construction and Planning*

Dissertation: An Assessment of Mitigation Measures to Minimize the Exposure of Extremely Low Frequency

Electromagnetic Fields (ELF-EMF) on Building Occupants

Dissertation Chair: C. J. Kibert

Taylor K. Ruth

Major: *Agricultural Education and Communication*

Dissertation: A Grounded Theory Approach to Understanding the Factors Influencing Tenure-Track, UF/IFAS Faculty's

Engagement in Science Communication

Dissertation Chair: J. N. Rumble

Shilpa Sahay

Major: *Curriculum and Instruction*

Dissertation: Investigating Teachers' Perspectives toward ICT Integration in Classrooms in India

Dissertation Chair: K. M. Dawson

Catherine Ann Sahi

Major: *Materials Science and Engineering*

Dissertation: The Role of Integral Mean Curvature in Grain Growth Using Simulations and Experiments

Dissertation Chair: B. R. Patterson

Brittani Danyelle Sahn

Major: *Mass Communication*

Dissertation: The Story of the Connected Sports Fan: Examining the Drivers, Outcomes, and Experiences of Digital Sports

Media Consumption

Dissertation Chair: S. M. Chan-Olmsted

Morgan Violeta Sanchez

Major: *Sociology*

Dissertation: Sick and Tired: Narratives of Chronic Fatigue Syndrome in Blogs

Dissertation Chair: C. L. Shehan

Maria Angelica Sanclemente

Major: *Plant Molecular and Cellular Biology*

Dissertation: Sugar Modulation of Low-Oxygen Responses in Maize: Gene Networks and Roles for Nucleoside Diphosphate Kinases (NDPKs)

Dissertation Chair: K. E. Koch

Manish Sapkota

Major: *Electrical and Computer Engineering*

Dissertation: High Throughput Biomedical Image Analysis and Imaging Informatics for Computer-Aided Diagnosis

Dissertation Chair: L. Yang

Jose Ramon Saucedo Carabez

Major: *Plant Pathology*

Dissertation: Fungal Associates of Known and Putative Vectors of Laurel Wilt and Nutritional Aspects of the Laurel Wilt Pathogen *Raffaelea lauricola*

Dissertation Chair: R. C. Ploetz

Nathan R. Sauder

Major: *Mechanical Engineering*

Dissertation: Predicting Optimal Fast Functional Electrical Stimulation Patterns for Post-Stroke Gait Neurorehabilitation

Dissertation Chair: B. J. Fregly

Anna Patricia Schrack

Major: *School Psychology*

Dissertation: The Relationship between Comorbid Anxiety and Depression, Cognitive Functioning, and Academic Achievement among Inpatient Adolescents

Dissertation Chair: D. J. Beaulieu

Christopher Michael Scocco

Major: *Entomology and Nematology*

Dissertation: Genetic Investigation of the Invasive Ghost Ant, *Tapinoma melanocephalum* (F.)

Dissertation Chair: B. W. Bahder

Dissertation Co-chair: W. H. Kern Jr.

Talia R. Seider

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Seeing Brain: An fMRI Study of Age-Related Changes in Visual Perception and Discrimination

Dissertation Chair: V. M. Dotson

Dissertation Co-chair: R. A. Cohen

Jacquelyn Caryn Serfecz

Major: *Medical Sciences—Genetics*

Dissertation: The Impact of Eukaryotic DExD/H Box Helicases on Kaposi's Sarcoma-Associated Herpesvirus and Regulation of Human Peripheral Myelin Protein 22 by miR29a in Charcot-Marie-Tooth Disease Type 1A

Dissertation Chair: R. F. Renne

Julie Teresa Shapiro

Major: *Interdisciplinary Ecology*

Dissertation: Bats in a Changing World: Where They Go, What They Bring, and How They Impact People

Dissertation Chair: R. A. McCleery

Bungo Shiotani

Major: *Aerospace Engineering*

Dissertation: Project Life-Cycle and Implementation for a Class of Small Satellites

Dissertation Chair: N. G. Fitz-Coy

Vanessa Simoes Dias De Castro

Major: *Entomology and Nematology*

Dissertation: Condition-Dependent Expression of Sexual Traits Based on Enzymatic Antioxidants in the Caribbean Fruit Fly, *Anastrepha suspensa*

Dissertation Chair: D. A. Hahn

Sirinrat Sithajan

Major: *Astronomy*

Dissertation: Dharma Planet Survey of FGKM Dwarfs: Survey Preparation and Early Science Results

Dissertation Chair: J. Ge

James Kennon Smith

Major: *Medical Sciences—Biochemistry and Molecular Biology*

Dissertation: Stealth Vectors: Engineering Host Immune Response Escape AAV Vectors

Dissertation Chair: M. Agbandje-Mckenna

Justin S. Smith

Major: *Chemistry*

Dissertation: Transferable and Extensible Deep Learning-Based Molecular Potentials

Dissertation Chair: A. E. Roitberg

Ummat Sultan Somjee

Major: *Interdisciplinary Ecology*

Dissertation: The Consequences of Exaggerated Sexually Selected Weapons: Allocation Trade-Offs, Metabolic Costs, Social Behavior, and the Measurement of Selection in a Wild Population

Dissertation Chair: C. W. Miller

Mingcong Song

Major: *Electrical and Computer Engineering*

Dissertation: Enabling Efficient Computer Architectures and Systems for Next-Generation AI Applications

Dissertation Chair: T. Li

Zhuoyuan Song

Major: *Mechanical Engineering*

Dissertation: Cooperative Control and Navigation of Autonomous Vehicles in Harsh Environments

Dissertation Chair: K. Mohseni

Pallavi Sood

Major: *Rehabilitation Science*

Dissertation: Developing Tailored Functional Status Measures across Continuum of Care

Dissertation Chair: S. Romero

James J. Sorce

Major: *Design, Construction and Planning*

Dissertation: Adoption of Computer Technology in Construction Firms: An Application of the Technology Acceptance Model

Dissertation Chair: R. R. Issa

Ania Sotuyo

Major: *Chemistry*

Dissertation: Design and Synthesis of Nonconventional π -Conjugated Building Blocks for Structure-Property Analysis

Dissertation Chair: R. K. Castellano

Saman Souri

Major: *Agricultural and Biological Engineering*

Dissertation: Possibility of Root Heat Treatment, Modification, and Performance of a Hot Water Injection System to Treat HLB in Citrus

Dissertation Chair: J. K. Schueller

Olivia Rose Soutullo

Major: *School Psychology*

Dissertation: School Psychology Interns' Experiences Facilitating Family-School Partnerships with Culturally and Linguistically Diverse Families

Dissertation Chair: T. M. Smith-Bonahue

Prashanth Sridharan

Major: *Mechanical Engineering*

Dissertation: Shock-Particle Interaction Using Diffuse Interface Methods

Dissertation Chair: S. Balachandar

Dissertation Co-chair: T. L. Jackson

Daken Jay Starkenburg

Major: *Materials Science and Engineering*

Dissertation: Molecular Engineering and Device Application of Organic Photodiodes for Radiation Detection and Solar Energy Conversion

Dissertation Chair: J. Xue

Bethany A. Stennett

Major: *Psychology*

Dissertation: The Effects of Simultaneous Cocaine and Alcohol Self-Administration on Striatal Glutamate

Dissertation Chair: L. Knackstedt

Cameron Scott Stewart

Major: *Mechanical Engineering*

Dissertation: Soft Sphere Simulations of a Planar Multiphase Shockwave Passing through a Bed of Particles

Dissertation Chair: S. Balachandar

Kimberly Denise Stewart

Major: *Chemistry*

Dissertation: Engineering Molecular Recognition Elements for Prostate Cancer Theranostics

Dissertation Chair: W. Tan

Amanda Elizabeth Stone

Major: *Health and Human Performance*

Dissertation: Sensory and Cognitive Contributions to Performance in Anterior Cruciate Ligament Reconstructed Individuals

Dissertation Chair: C. J. Hass

Kevin Harrington Strang

Major: *Medical Sciences—Neuroscience*

Dissertation: Aggregation and Prion-Like Seeding of Tau Protein Variants: Implications for Transmission

Dissertation Chair: B. I. Giasson

Dissertation Co-chair: T. E. Golde

Sarah E. Stromberg

Major: *Psychology—Clinical and Health Psychology*

Dissertation: The Impact of Pre-Surgical Dietary and Psychosocial Factors on Post-Surgical Percent Excess Weight Loss in a Population of Bariatric Surgery Patients

Dissertation Chair: D. Janicke

Rebecca Lynn Stubbs

Major: *Botany*

Dissertation: The Past, Present, and Future of *Micranthes* (Saxifragaceae), A Clade of Alpine and Arctic Flowering Plants

Dissertation Chair: N. Cellinese

Dissertation Co-chair: D. E. Soltis

Yi-Wen Su

Major: *Counseling and Counselor Education*

Dissertation: Addressing Attention Problems through Mindfulness: The Effectiveness of a School Counseling Group Intervention

Dissertation Chair: J. M. Swank

Kalaivani Sundararajan

Major: *Computer Engineering*

Dissertation: Analysis of Stylometry as a Cognitive Biometric Trait

Dissertation Chair: D. Woodard

Hojun Sung

Major: *Health and Human Performance*

Minor: *Statistics*

Dissertation: Professional Sports Syndicates and Fan Demand: The Single-Entity Case of Major League Soccer

Dissertation Chair: B. M. Mills

Sarah M. Szymkowicz

Major: *Psychology—Clinical and Health Psychology*

Dissertation: Age-Related Mechanisms of Emotion Anticipation and Perception

Dissertation Chair: V. M. Dotson

Dissertation Co-chair: D. Bowers

Jin Tao

Major: *Statistics*

Dissertation: Statistical Framework for Power Theft Activities Detection and Power Usage Prediction in the Smart Grid Network

Dissertation Chair: G. Michailidis

Junyi Tao

Major: *Animal Sciences*

Dissertation: Unveiling Substrate Preference of Uncultured Rumen Bacteria

Dissertation Chair: T. J. Hackmann

Alexander H. Tepperman

Major: *History*

Dissertation: Strange Bedfellows: Convict Culture in the First Era of Mass Imprisonment, 1919-1940

Dissertation Chair: J. S. Adler

Matthew J. Terza

Major: *Health and Human Performance*

Dissertation: Changing the Way We Change the Way We Walk: Adaptation and Transfer of Complex Locomotor Tasks

Dissertation Chair: C. J. Hass

Selena Tinga

Major: *Veterinary Medical Sciences*

Dissertation: In-vivo Femorotibial Kinematics in Dogs with Cranial Cruciate Ligament Insufficiency before and after Surgical Stabilization

Dissertation Chair: S. E. Kim

Elisa Maria Todarello

Major: *Physics*

Dissertation: Quantum Effects in Axion Dark Matter

Dissertation Chair: P. Sikivie

Stavros A. Triantafyllidis

Major: *Health and Human Performance*

Dissertation: Sense of Place and Pro-Environmental Behavior in Beach Volleyball

Dissertation Chair: K. Kaplanidou

Rosamaria Tricarico

Major: *Biomedical Engineering*

Dissertation: Computational Modeling of the Aortic Arch following Complex Endovascular Repair

Dissertation Chair: S. A. Berceci

Robert M. Turick

Major: *Health and Human Performance*

Dissertation: Persistence in the Face of Career Obstacles: The Coaching Experiences of African American College Football Coaches

Dissertation Chair: T. Bopp

Jillian Lee Vella

Major: *Counseling and Counselor Education*

Dissertation: Exploring Alternatives to the Medical Model of Mental Health Care

Dissertation Chair: M. K. DePue

Michael F. Vincent

Major: *Music*
Dissertation: Boccherini's Chamber Music in Cosmopolitan Europe
Dissertation Chair: M. R. Butler

Maria Vrachlioli

Major: *Food and Resource Economics*
Dissertation: Agricultural Water Use, Efficiency, and Its Contribution to Total Factor Productivity
Dissertation Chair: S. E. Stefanou

Ahmed Mohammed Ahmed Wahba

Major: *Food and Resource Economics*
Dissertation: Econometric Modeling of World Market Integration and Price, Volatility, and Information Transmissions of World Meat Exports, Multibudgeting Approach of Egyptian Import Demand, and the Impacts of Trade Liberalization under the Economic Reform Program on Food Security Indicators in Egypt
Dissertation Chair: J. L. Seale Jr.
Dissertation Co-chair: J. J. VanSickle

Jacquelyn Mary Walejko

Major: *Medical Sciences—Biochemistry and Molecular Biology*
Dissertation: Global Metabolomics of Complications in Pregnancy
Dissertation Chair: A. S. Edison
Dissertation Co-chair: M. Keller Wood

Angela Walther

Major: *English*
Dissertation: The Scientific Muse and Political Discontent in Working-Class Chartist Poetry
Dissertation Chair: P. K. Gilbert

Shuo Wan

Major: *Chemistry*
Dissertation: Functionalization of Exosomes with Aptamer for Bio-applications
Dissertation Chair: W. Tan

Stephenson Waters

Major: *Mass Communication*
Dissertation: Gatekeeping, Ethics, and Trust: Analyzing the Journalist/Whistleblower Relationship as Social Exchange
Dissertation Chair: N. P. Lewis

Robert K. Weinmann-Smith

Major: *Nuclear Engineering Sciences*
Dissertation: Monte Carlo Simulations of Neutron Multiplicity Counting for International Nuclear Safeguards
Dissertation Chair: P. Enqvist

Zachary N. Weinrich

Major: *Materials Science and Engineering*
Dissertation: Dopant-Defect Interactions in Epitaxially Grown Highly Doped Si:P
Dissertation Chair: K. S. Jones

Natalie Catherine Weldon

Major: *Counseling Psychology*
Dissertation: Effects of Job on Interpersonal Attraction
Dissertation Chair: M. Heesacker

Robert Houston Wells II

Major: *Mass Communication*
Dissertation: The Effects of Game Frames on Motivation and Learning in an Educational Game
Dissertation Chair: D. M. Treise

Jason Brandon Wenzel

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

Erin B. White

Major: *Environmental Engineering Sciences*
Dissertation: Contaminant Fluxes through Heterogeneous Transport Pathways in Fractured Rock and Karst
Dissertation Chair: M. D. Annable

Travis James Whitley

Major: *Mechanical Engineering*
Dissertation: The Adaption of Small Unmanned Air System for Urban Structure Inspections
Dissertation Chair: P. G. Ifju

Robert J. Winsler III

Major: *Mass Communication*
Dissertation: Building a Firebrand: Controversial Sports Commentators Cultivating an Audience
Dissertation Chair: W. M. Wanta

Guillermo Manuel Wippold

Major: *Counseling Psychology*
Dissertation: Perceived Socioeconomic Status, Stress, Resilience, and Health-Related Quality of Life among Urban Adults
Dissertation Chair: C. M. Tucker

Thomas W. Wojciechowski

Major: *Sociology*
Dissertation: The Development of Violence and Substance Use among Juvenile Offenders: The Roles of PTSD and PTSD-Linked Strain Sensitivity
Dissertation Chair: C. W. Peek

Emily Ann Dobmeyer Woodruff

Major: *Zoology*
Dissertation: Developmental Patterning of the Mammalian Dentition and Evolution of the Diastema in Mammals
Dissertation Chair: J. I. Bloch
Dissertation Co-chair: M. J. Cohn

Marianette Octovina Wospakrik

Major: *Physics*
Dissertation: Measurement of Neutrino Absolute Deep Inelastic Scattering Cross Section in Iron, Lead, Carbon, and Plastic Using MINERvA Detector at $E_\nu = 6$ GeV
Dissertation Chair: H. Ray

Sheng-Yen Wu

Major: *Soil and Water Sciences*
Dissertation: Mutualism between Entomopathogenic Nematodes and a Saprophytic Fungus
Dissertation Chair: J. H. Graham Jr.
Dissertation Co-chair: L. W. Duncan

Qinwen Xia

Major: *Entomology and Nematology*
Dissertation: Testing for an Endocrine Basis of Adaptation of Life History Timing
Dissertation Chair: D. A. Hahn

Wei Xia

Major: *Statistics*
Dissertation: Scalable Hyperparameter Selection for Latent Dirichlet Allocation
Dissertation Chair: J. Doss

Yuanpu Xie

Major: *Biomedical Engineering*
Dissertation: Large Scale Pathology Image Analysis with Deep Learning
Dissertation Chair: L. Yang

Ruitong Xiong

Major: *Mechanical Engineering*
Dissertation: Laser-Based Bioprinting of Cellular Constructs and Applications for Organ-On-A-Chip Device Fabrication
Dissertation Chair: Y. Huang

Bidhyananda Yadav

Major: *Civil Engineering*

Dissertation: Direct Stream Hydrograph Prediction from Digital Elevation Model

Dissertation Chair: K. Hatfield

Ibrahim Yahaya Ibrahim

Major: *Political Science*

Dissertation: Political Contestation and Islamic Discourses in the Sahel: Protests, Riots, and Jihadist Insurgencies in Mali, Mauritania, and Niger

Dissertation Chair: L. A. Villalon

Yupeng Yan

Major: *Computer Science*

Dissertation: Parallelizable Semi-Supervised Dense Labeling Framework for Very High-Resolution Satellite Images

Dissertation Chair: A. Rangarajan

Dissertation Co-chair: S. Ranka

Guan Yang

Major: *Animal Molecular and Cellular Biology*

Dissertation: Phenotype, Function, and Contribution to Viral Immunity of Porcine Invariant Natural Killer T Cells

Dissertation Chair: J. P. Driver

Shunchang Yang

Major: *Agricultural and Biological Engineering*

Minor: *Environmental Engineering Sciences*

Dissertation: Treatment of Dairy Manure for Energy Production and Nutrient Recovery

Dissertation Chair: P. C. Pullammanappallil

Wencui Yang

Major: *Design, Construction and Planning*

Dissertation: Assessing the Overall Social Equity of Transit Access to Jobs: A Case Study in Orlando Urban Area, Florida

Dissertation Chair: R. L. Steiner

Yichao Yu

Major: *Pharmaceutical Sciences—Pharmacy*

Dissertation: Dose Optimization of Anti-Infective Agents Using Pharmacokinetic/Pharmacodynamic Modeling and Simulation

Dissertation Chair: H. C. Derendorf

Brian A. Zaboski II

Major: *School Psychology*

Dissertation: Group Exposure and Response Prevention for College Students with Social Anxiety: A Randomized Clinical Trial

Dissertation Chair: D. J. Beaulieu

Han Zhang

Major: *Astronomy*

Dissertation: Mid-Infrared Polarimetry: Insights into Magnetic Fields and Dust Grain Properties in Young Stellar Objects and Protoplanetary Disks

Dissertation Chair: C. M. Telesco

Huiling Zhang

Major: *Computer Science*

Dissertation: Misinformation Detection and Containment in Online Social Networks

Dissertation Chair: M. T. Thai

Jun Zhang

Major: *Design, Construction and Planning*

Dissertation: Collecting Real-Time Human Behavior Data during Fire Emergency Evacuation: A BIM-Driven Immersive Game Approach

Dissertation Chair: R. R. Issa

Shaojun Zhang

Major: *Statistics*

Dissertation: Structural Discovery in Temporal Networks and Simultaneous Dimension Reduction for Multiple Datasets

Dissertation Chair: G. Michailidis

Tianduo Zhang

Major: *Mass Communication*

Dissertation: State Owned Media in Hashtag Discussion Exploring State Owned Media Agenda Building Strategy on Twitter

Dissertation Chair: S. K. Kiousis

Yingxiu Zhang

Major: *Agricultural and Biological Engineering*

Dissertation: Cultivation, Growth Optimization and Modeling of a Saline *Cyanobacteria* Species BG0011 for Production of Biofuels and Bioproducts

Dissertation Chair: P. C. Pullammanappallil

Dissertation Co-chair: S. A. Svoronos

Hui Zhao

Major: *Electrical and Computer Engineering*

Dissertation: A Cascade H-Bridge with Selective Harmonic Elimination/Compensation: Algorithm, Modulation, and Parameter Design

Dissertation Chair: S. Wang

Kezhao Zhou

Major: *Industrial and Systems Engineering*

Dissertation: Polynomial-Time Algorithms, Extended Formulations and Distributional Robust Stochastic Optimization Approaches for Unit Commitment Problems

Dissertation Chair: Y. Guan

Yiqing Zhu

Major: *Linguistics*

Minor: *Statistics*

Dissertation: Processing Intonation: Categoricity and the Effects of Cognitive Control

Dissertation Chair: R. Wayland

Dissertation Co-chair: J. R. Valdes Kroff



DOCTOR OF EDUCATION

Meridith Zepp Bergeron

Major: *Curriculum and Instruction*

Dissertation: Exploring Faculty Members' Concerns with Online Teaching and the Support Needed to Address Concerns

Dissertation Chair: S. Kumar

Jazmin M. Cuencas Caton

Major: *Higher Education Administration*

Dissertation: They Already Have So Many Labels: Defining Homelessness in the Context of Higher Education

Dissertation Chair: J. C. Ortagus

Jonathan David Frankel

Major: *Curriculum and Instruction*

Dissertation: EFL Teacher Perceptions of a Blended Teacher Professional Development Workshop in Mexico

Dissertation Chair: S. Kumar

Zane Talal Hasan

Major: *Curriculum and Instruction*

Minor: *Higher Education Administration*

Dissertation: The Multiple Identities of Second Generation Palestinian American Muslim Female Adolescents

Dissertation Chair: E. J. De Jong

Leena Hasbini

Major: *Educational Leadership*

Dissertation: The Impact of Standardized Testing on High-Achieving Students Postsecondary Acceptance Outcomes

Dissertation Chair: L. B. Eldridge

Christine M. Lloyd

Major: *Higher Education Administration*

Dissertation: An Exploration of Strategic Human Resources in Higher Education: Are We There Yet?

Dissertation Chair: D. F. Campbell

Tuuli Robinson

Major: *Curriculum and Instruction*

Dissertation: E-Leadership Practices within Electronic Educational Information Systems of Elementary School Principals in One Small Educational Consortium in Florida

Dissertation Chair: K. M. Dawson

Kendall Erin St. Hilaire

Major: *Higher Education Administration*

Dissertation: A Quantitative Case Study of the Influence of Online Course Load on Academic Success

Dissertation Chair: J. C. Ortagus

Virginia L. Stewart Miller

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

Stephanie Nicole Wall

Major: *Educational Leadership*

Dissertation: Virtually Successful: A Comparative Analysis of At-Risk Student Performance in Online Coursework in a Selected School District

Dissertation Chair: L. B. Eldridge

Dissertation Co-chair: C. H. Redding

DOCTOR OF AUDIOLOGY

Isabelle Boulay

Madeleine Jennifer Ritchie

Rufina Atienza Sanvictores

DOCTOR OF BUSINESS ADMINISTRATION

Timothy J. Halloran

Susan A. Henderson

Marko Radoslav Jovic

Richard D. Kuerston III

Christopher Leo

Sandra M. Maletta

Ashok B. Margam

Ryan K. Parris

Anan L. Sturgess

Omar Y. Tarawneh

Katarzyna Toskin

Nykylo D. Williams

DOCTOR OF PLANT MEDICINE

Wael Mohamed Elwakil

PROFESSIONAL DEGREES

THE FREDRIC G. LEVIN COLLEGE OF LAW

DEAN LAURA A. ROSENBURY

JURIS DOCTOR

Jordan A. Eddy

Genna F. Elko

Melissa Michaud Hubble

Parker B. McDonald

DOCTOR OF JURIDICAL SCIENCES IN TAXATION

Faisal Misfer Al-Hababi

Debora S. Correa

THE COLLEGE OF NURSING

DEAN ANNA M. McDANIEL

DOCTOR OF NURSING PRACTICE

Marites Reyes Acampora

Jessica M. Albaugh

Sheila Diaz

Angelica C. Estrella

Jessy D. Hart

Caitlin J. Powers

Christopher Wade Schreier

Lisa A. Wisemen

THE COLLEGE OF PHARMACY

DEAN JULIE A. JOHNSON

DOCTOR OF PHARMACY

Srinivasa Rao Arrabelli

William Joseph Carnie

Ann Chao

Brian Charles Doss

Natasha M. Duvall

Marcia A. Gray

Daniel J. Heser

Sarah A. Hull

Jeri L. Jones

Brian Daehyun Kim

Amy Johnell Kocurek Perry

Anthony Lau

Jung Soo Lee

Theresa M. Mahoney

Theresa K. McCarthy

Kim Rachelle McCurry

Pamela Jean Miranda

Lekha Negi

Kenny Yat Ng

Oliver E. Nkwonta

Lynn Pettitt

Ai T. Phan-Tang

Iman Ahmad Ramadan

Ramya Ranganathan

Maria de Lourdes Rivera

Nancy J. Samuel

Archana Shrivatsa

Angela M. Tucker

Pik Ling Yeung

Heejeong Yoon

Kenneth Scott Zweerink



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. 9 in U.S. News & World Report "Top Public Universities" (2018); No. 12 in the Wall Street Journal/Times Higher Education list of Best Public Colleges (2017); No. 3 on the Forbes' list of Best Value Public Universities (2017); No. 1 on Value Colleges' list of Top 50 Best Value Colleges (2016); and No. 1 on the Times Higher Education list of best public universities for employers to find new hires.

Faculty

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

Students

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



Chain of Office

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

Academic Mace

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

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



Diplomas

Diplomas will be mailed to the graduate's permanent home mailing address in September 2018.

Caps and Gowns, An Explanation

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.





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