

PRESENTED BY THE DIVISION OF STUDENT LEARNING AND ACADEMIC SUCCESS  
AND THE COLLEGE OF GRADUATE STUDIES

# STUDENT RESEARCH WEEK

CELEBRATING RESEARCH  
AND CREATIVITY ACROSS  
THE CURRICULUM



MARCH 29-  
APRIL 2  
**2021**

**KICK-OFF EVENT**

**STUDENT SCHOLAR SYMPOSIUM**

**AWARDS CEREMONY**

## WELCOME TO STUDENT RESEARCH WEEK

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UCF's Student Research Week celebrates the work of our students at all stages of their research journey. Hundreds of undergraduate and graduate students will demonstrate their work through poster presentations all accessible via a UCF Webcourse. The best projects are recognized with scholarships.

A university contributes to the very fiber of our society in many ways from educating our next generation of doctors and artists to solving big challenges facing the human race. The research UCF's faculty and students conduct, the discoveries that turn into technology and the creative works that illuminate the human condition are all key to creating communities we all want to live in.

This is the first year the celebration is virtual. We didn't want our students or the UCF community to miss out on the opportunity to see all their work. We invite you to join us and see for yourself how our students' research and creative scholarship enrich their learning experience and impact the world.

To learn more and for a full schedule of events visit **[researchweek.ucf.edu](https://researchweek.ucf.edu)**.

*The Division of Student Learning and Academic Success, the College of Graduate Studies, and the Office of Undergraduate Research*

UNIVERSITY OF CENTRAL FLORIDA | ORLANDO, FLORIDA

# STUDENT RESEARCH WEEK

## SCHEDULE OF EVENTS

To see a full list of Student Research Week events, please visit [researchweek.ucf.edu](https://researchweek.ucf.edu)

### Monday, March 29

Student Research Week Kickoff: ..... 10:00 - 11:30 a.m.

### Tuesday, March 30

Poster Session I: ..... 11:30 a.m. - 12:30 p.m.

Poster Session II: ..... 2:30 - 3:30 p.m.

### Wednesday, March 31

Poster Session III: ..... 10:30 - 11:30 a.m.

Poster Session IV: ..... 12:30 - 1:30 p.m.

### Thursday, April 1

Poster Session V: ..... 11:30 a.m. - 12:30 p.m.

Poster Session VI: ..... 2:30 - 3:30 p.m.

### Friday, April 2

Awards Ceremony: ..... 2:00 - 3:30 p.m.

## SPONSORS

Through the generosity of the following organizations and individuals, substantial scholarships will be awarded to students judged to have the best projects presented. The Division of Student Learning and Academic Success, the College of Graduate Studies, and the Office of Undergraduate Research are grateful to those benefactors for their encouragement and support of student research at UCF.

Student Government Association

College of Medicine

Burnett Honors College

College of Nursing

College of Arts & Humanities

Richard Harrison II

College of Community Innovation and Education

## STUDENT RESEARCH WEEK PLANNING TEAM

Michael Aldarondo-Jeffries

Zenaida Kotala

Jennifer Parham

Nathalia Bauer

Carreen Krapf

Simone Rousseau

Tyler Campbell

Aubrey Kuperman

Kimberly Schneider

Wendy Cartier

Kelli Marini

Barbara Smith

## SPECIAL THANKS

The Division of Student Learning and Academic Success, the College of Graduate Studies, and the Office of Undergraduate Research thank the student presenters for sharing their scholarly work and demonstrating the outstanding research conducted at UCF. The events of Student Research Week would not be possible without the support of the entire UCF community.

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# STUDENT RESEARCH WEEK KICK-OFF EVENT

Monday, March 29, 2021 | 10:00 - 11:30 a.m.

[Virtually via Zoom](#)

## WELCOME AND AWARDS

Dr. Michael Johnson

*Interim Provost and Vice President for Academic Affairs*

Dr. Elizabeth A. Klonoff

*Vice President for Research and Dean of the College of Graduate Studies*

Dr. Theodorea Regina Berry

*Vice Provost for the Division of Student Learning and Academic Success and Dean of the College of Undergraduate Studies*

## KEYNOTE SPEAKER

Dr. Joshua Colwell

*Planetary Scientist and Pegasus Professor of Physics*

## KEYNOTE SPEAKER: DR. JOSHUA COLWELL



Dr. Joshua Colwell is a Planetary Scientist and Pegasus Professor of Physics at the University of Central Florida. He came to UCF in 2006 from the Laboratory for Atmospheric and Space Physics at the University of Colorado where he earned his Ph.D. in Astrophysical, Planetary and Atmospheric Sciences. Since 2011 he has held the positions of Associate Chair of the Department of Physics, Assistant Director of the Florida Space Institute, and Director of the Center for Microgravity Research.

His research interests are in the origin and evolution of the solar system with a particular emphasis on planet formation, asteroids, planetary rings, comets, and interplanetary dust. As a Co-Investigator on the international Cassini mission to Saturn that orbited the ringed planet from 2004–2017 he designed and analyzed observations of Saturn’s rings. He studies the structure and dynamics of Saturn’s rings with data from Cassini. He has led experiments that have flown on the Space Shuttle, the International Space Station, suborbital rockets, parabolic airplane flights, and is the Principal Investigator of a CubeSat that launched in 2021.

# STUDENT RESEARCH WEEK KICK-OFF EVENT

## GRADUATE AWARDS OF EXCELLENCE

### Award for Excellence in Graduate Student Teaching

Anshare Antoine

*Texts and Technology PhD  
College of Arts and  
Humanities*

David Boffey\*

*Education PhD, Exercise  
Physiology Track  
College of Health Professions  
and Sciences*

Sahar Hooshmand

*Computer Science PhD  
College of Engineering and  
Computer Science*

Tutku Ayhan

*Security Studies PhD  
College of Sciences*

Daniel Edelen

*Elementary Education PhD  
College of Community  
Innovation and Education*

### Award for Excellence by a Graduate Teaching Assistant

Kelli Dauphinais

*Applied Sociology MA  
College of Sciences*

Nicholas Kostakis

*Teaching English to Speakers  
of Other Languages, TESOL  
MA  
College of Arts and  
Humanities*

Olga Pysmenna

*Public Affairs PhD  
College of Community  
Innovation and Education*

Brandy King\*

*Computer Science MS  
College of Engineering and  
Computer Science*

*\*University-level awardee*



## STUDENT RESEARCH WEEK KICK-OFF EVENT

### UNDERGRADUATE RESEARCH AWARDS

#### Distinguished Undergraduate Research Award

Ezat El-Said

*Dr. Gang Chen*

Meeti Mehta

*Dr. Steven Ebert*

Michael Greenberg

*Dr. Yulia Gerasimova*

Teddy Duncan

*Dr. William Fogarty*

Mariana Kellis

*Dr. Barbara Gannon*

Alyssa Church

*Dr. Michael Rovito*

Zachary Stein

*Dr. Seetha Raghavan*

Amy Lebanoff

*Dr. Andrew Dickerson*

Cesar Lopez-Zelaya

*Dr. C. Kyle Renshaw*

Gary Hoppenworth

*Dr. Sharma Thankachan*

Salim Mouloua

*Dr. Daniel McConnell*

## STUDENT RESEARCH WEEK KICK-OFF EVENT

### **Undergraduate Research Faculty Mentor of the Year**

Dr. Damla Turgut

*Computer Science*

*Nominated by: Nafisa Mostofa*

### **Champion of Undergraduate Research Faculty Award**

Dr. Aubrey Jewett

*School of Politics, Security, and International Affairs*

Dr. Seetha Raghavan

*Mechanical and Aerospace Engineering*

**BUSINESS ADMINISTRATION  
AND HOSPITALITY  
MANAGEMENT**

**Graduate Presentations**

**Facial Prominence and Its Impact  
on Effectiveness of Marketing  
Communications**

Lam An  
Business Administration PhD, Marketing  
Track

**Efficient Practices of Training,  
Technology, Goal and  
Consequence Interventions in  
Warehouse Management**

Mia Cleary  
Management MSM

**The Impacts of Tourism**

Maksim Godovykh  
Hospitality Management PhD

**For Goodness' Sake? Integrating  
Sustainability Performance into  
Management Control Systems**

Jacob Lennard  
Business Administration PhD, Accounting  
Track

**Customers' Behavioral Immune  
System Responses to the  
COVID-19 Pandemic**

Julia Marquez  
Hospitality and Tourism Management MS

**Balancing Trade-offs in Designing  
the CMO Job: A Financial  
Accountability Perspective**

Ashutosh Singh  
Business Administration PhD, Marketing  
Track

**Service Robots in Food and  
Beverage Settings: The Impact  
of Automation on Consumer  
Experiences in Traditionally High-  
Contact Environments**

Sydney Tefft  
Hospitality and Tourism Management MS

**Adopting Gamification to Access  
Hotel Guests' Environmental  
Sustainability Perception**

Aili Wu  
Hospitality and Tourism Management MS

**ENGINEERING, COMPUTER  
SCIENCE, MODELING AND  
SIMULATION**

**Graduate Presentations**

**Transport Layer Security, TLS  
Encryption Protocol in IoT  
Systems: A Critical Design Review**

Nidal Alsayyed  
Digital Forensics MS

**IoT Augmented Physical Scale  
Model of a Suburban Home**

Salih Safa Bacanlı  
Computer Science PhD

**An Online Reinforcement Learning  
Approach for Cable-Driven Upper  
Body Exosuit, CUBE**

Jirui Fu  
Mechanical Engineering PhD

**Dependence Between Drivers  
of Compound Flooding Around  
the Contiguous United States  
Coastline**

Ahmed Nasr  
Civil Engineering PhD

**Short-Term Load Forecasting for  
Smart Home Appliances With  
Sequence to Sequence Learning**

Mina Razghandi  
Computer Science PhD

**Coalition Formation of Directional  
Radios in Adversarial Presence**

Sayanta Seth  
Electrical Engineering PhD

**Sequence Patterning of Peptides  
with Increased Hydrophobic  
Content for Therapeutic  
Encapsulation**

Sara Tabandeh  
Materials Science and Engineering PhD

**A Database of Global Storm Surge  
Reconstructions, GSSR**

Michael Tadesse  
Civil Engineering PhD

**How Gelsolin-Mediated Actin  
Filament Severing and Mechanics  
Respond to Crowding and  
Changes in pH**

Claire Toland  
Nanotechnology MS

**Effects of Various Speed  
Management Countermeasures on  
Bicycle Crashes for Urban Roads  
in Central Florida**

Jorge Ugan  
Civil Engineering MS, Transportation  
Systems Engineering Track

**What Are You Trying to Tell  
Me? The Influence of Individual  
Differences of Perceived  
Emotion Utility on Attention  
Towards Shared Metacognition  
Between Humans and Agents in a  
Multimedia Learning Environment**

Megan Wiedbusch  
Education PhD, Learning Sciences Track

**Viscoelastic Modeling of High  
Strain Thin Ply Composites**

Milinda Madhusanka Yapa Yapa  
Hamillage  
Mechanical Engineering PhD

**Improving AR/VR Experiences  
with Deep Learning**

Sharare Zehtabian  
Computer Science PhD

**Undergraduate  
Presentations**

**Teen as Research-Apprentice:  
Creating a Participatory Action  
Research Program for the Design  
and Development of Adolescent  
Online Safety Solutions**

Arianna Davis  
Mentor: Dr. Pamela Wisniewski, Computer  
Science, Dr. Elizabeth Marie Bonsignore,  
University of Maryland

**Characterization of Contact  
Resistance Properties of Different  
TLM Structure Designs**

Nicole Karam  
Mentor: Dr. Kristopher Davis, Dr. Mengjie  
Li, Materials Science and Engineering

**Matrix Decompositions and  
Applications to Digital Ownership  
Protection**

David Melendez  
Mentor: Dr. Minah Oh, James Madison  
University, Dr. Akil Narayan, Mathematics

**Finite Element Analysis of Thermal  
Strain in Multi-Layered Ceramic  
Composite for Hypersonic  
Applications**

Felix Morales  
Mentor: Dr. Seetha Raghavan, Mechanical  
and Aerospace Engineering

**Investigation of Tablet LiDAR  
and Its Application to Structural  
Health Monitoring**

Kaile'a Moseley  
Mentor: Dr. F. Necati Catbas, Civil,  
Environmental, and Construction  
Engineering

**Carebit: A Mobile App for Remote Informal Caregiving via Fitbit API**  
Huy Pham, Ann Binus, Joseph Kocis, Kensal Ramos  
Mentor: Dr. Pamela Wisniewski, Computer Science

**Family Communication: Examining the Differing Perceptions of Parents and Teens Regarding Online Safety Communication**  
Tara Rutkowski  
Mentor: Dr. Pamela Wisniewski, Computer Science

**Models for AP Composite Propellant Combustion**  
Emma Shafer  
Mentor: Dr. Subith Vasu, Mechanical and Aerospace Engineering

**De-occluding Faces Using Novel Deep Learning Techniques for Increased Performance of Facial Expression Recognition Networks**  
Sachin Shah  
Mentor: Dr. Charles Hughes, Computer Science

**Adolescent Online Safety: Expanding the Knowledge Base and Developing Machine Learning Algorithms**  
Carlson Sharpless, Avery Reyna, Christian Loanzo, Komila Khamidova, Pallavi Dacre, Abdulrahman Al Sumaih  
Mentor: Dr. Pamela Wisniewski, Computer Science

**Using Simulation and Brainwave Equipment to Test Leadership Among Engineers**  
Paul Stuckey  
Mentor: Dr. Luis Rabelo, Industrial Engineering and Management Systems

**Designing Social Media Interventions with Youth**  
Alice Zhang, Fabrizio Martins, Luke Shirley  
Mentor: Dr. Pamela Wisniewski, Computer Science

## FINE ARTS AND HUMANITIES

### Undergraduate Presentations

**Gaudi's Perfected Gothic**  
Dena Bader  
Mentor: Dr. Ilenia Colón Mendoza, School of Visual Arts and Design

**French Imperial Politics and Anglo-French Relations During the Third Republic and Vichy Regime**  
Brandon Kirk  
Mentor: Dr. Amelia Lyons, Dr. Barbara Gannon, History

**James Joyce's Ulysses and the Avoidance of the Reality Principle**  
Jack Scheidhauer  
Mentor: Dr. Louise Kane, English

**Making a Queer Game Informed by Queer Games Research**  
Amy Schwinge  
Mentor: Dr. Emily Johnson, English

**Dramatic Form and Narratives of Abuse**  
Taylor Wikoff  
Mentor: Dr. Chloe Edmonson, School of Performing Arts

## HEALTH SCIENCES

### Graduate Presentations

**Chemotoxic Effect of AICAR on Lung Cancer Cell Lines**  
Fareesa Aftab  
Biotechnology MS

**Influence of Surface on the Prone Bridge Plank Exercise**  
Luk Devorski  
Exercise Physiology, Education PhD

**Healthcare Needs of U.S. Rural Latinos: A Growing, Multicultural Population**  
Cristina Figueroa  
Nondegree or Transient

**High Intensity Gait Training in Anoxic Brain Injury: A Case Study**  
Ashley Gadelha  
Nondegree or Transient

**The Use of Tensiomyography in Evaluating the Effectiveness of Sequential Quadriceps Contractions for Neuromuscular Activation of the Rectus Femoris 0-5 Weeks Post Anterior Cruciate Ligament Construction**  
Jesse Gaudin  
Physical Therapy DPT

**Chaperonin-Containing TCP1 Complex, CCT Promotes Breast Cancer Growth Through Correlations With Key Cell Cycle Regulators**  
Heba Ghozlan  
Biomedical Sciences PhD

**Single Squat and Single Leg Squat Jump Assessment in Elite Figure Skaters**  
Jessica Harris  
Athletic Training MAT

**The Impact of Skeletal Muscle Disuse on Distinct Echo Intensity Bands: A Retrospective Analysis**  
Zachary Logeson  
Physical Therapy DPT

**Is There a Correlation Between Rate of Handgrip Force Production and Comfortable Gait Speed?**  
Emily Montecalvo  
Physical Therapy DPT

**School Participation and Physical Activity in Children with JIA: A Review of the Literature**  
Alexis Myers  
Physical Therapy DPT

**Effectiveness of Novel Therapeutics Targeting Polyamine Biosynthesis and Transport in Pancreatic Tumor Progression and Anti-Tumor Immune Modulation**  
Sai Preethi Nakkina  
Biomedical Sciences PhD

**Four Methods for Detecting Outliers: Applications in Animal Study**  
Albert Osom  
Statistics and Data Science MS

**Investigating Key Molecular Events Underlying Early Neoplastic Progression of Colorectal Cancer Using Integrative Meta-Transcriptomics**  
Michael Rohr  
Biomedical Sciences MD/PhD Track

**Effects of Pain Neuroscience Education on Healthcare Students' Understanding and Attitudes About Chronic Pain**  
Kimberly Singh  
Physical Therapy DPT

## MATHEMATICS, OPTICS, AND PHYSICAL SCIENCES

### Undergraduate Presentations

**Can the Presence of Water Ice Explain Cometary Activity on Asteroids?**

Olivia Bitcon

Mentor: Dr. Julie Brisset, Physics

**Deterministic Compartmental Model for Herpes Simplex Virus Type-2 and the Effect of a Possible Prevention Method to Protect Women**

Jacob Braun

Mentor: Dr. Zhisheng Shuai, Mathematics

**Exogenous Material on Asteroids**

Remington Cantelas

Mentor: Dr. Humberto Campins, Physics

**Are Fine Grains Responsible for Asteroids Shedding Surface Material?**

Christopher Cox

Mentor: Dr. Julie Brisset, Physics

**Quantum Charge Migration in Light-Harvesting Chromophores**

Ruben Fernandez Carbon

Mentor: Dr. Luca Argenti, Optics and Photonics

**Theoretical Calculations of Measurable Properties of Astrochemically Relevant Molecules**

Riley Havel

Mentor: Dr. Christopher Bennett, Physics

**DRIVE: Dropping Regolith in a Vacuum Environment**

Konrad Krol

Mentor: Dr. Julie Brisset, Physics

**Designing a Label-Free Light-Up Aptasensor for Thrombin**

Pedro Madalozzo

Mentor: Dr. Yulia V. Gerasimova, Chemistry

**OSIRIS-REx Boulder Hazard Campaign**

Jennifer Nola, Daniela McCarty, Alicia Allen

Mentor: Dr. Humberto Campins, Physics

**Active Asteroids: Role of Grain Size and Surface Properties on the Regolith Strength**

Aracelis Partida

Mentor: Dr. Julie Brisset, Physics

## SOCIAL SCIENCES

### Undergraduate Presentations

**Examining the Archaeology of Native American Boarding Schools: A Story of Childhood Agency**

Adriana Almonte

Mentor: Dr. Brigitte Kovacevich, Anthropology

**Politics and Parenting: How Parenting Style Can Affect Ideology**

Oljunie Antoine, Amber Wuorio, Claudia Urbina

Mentor: Dr. Jason Chesnut, Psychology

**Aviation Unexpected Event Card Sort for Judgment Expertise**

Hannah Arias

Mentor: Dr. Jessica Cruik, School of Modeling, Simulation and Training

**COVID Couples: How the Pandemic has Impacted Couples**

Victor Blocker

Mentor: Dr. Grace White, Psychology

**Effects of Media Literacy on Perceptions of Skepticism and Realism in Popular Music Among Undergraduate Students**

Reilly Branch

Mentor: Dr. Chrysalis Wright, Psychology

**Misinformation in the Media and Its Influence on Racism**

Jared Champa

Mentor: Dr. Chrysalis Wright, Dr. Daniel Mcconnell, Psychology

**Exploring Factors of Acceptance of Chip Implants in the Human Body**

Radha Chebolu

Mentor: Dr. Daniel McConnell, Dr. Janan Smither, Psychology

**Conflicts and Communication in Virtual Education for Gifted Students**

Sarah Finley

Mentor: Dr. James McCafferty, Dr. Adam Parrish, Nicholson School of Communication and Media

**Impact of Stigma and Stigma-Focused Interventions on Screening and Treatment Outcomes in Cancer Patients**

Anisah Husman

Mentor: Dr. Elizabeth Akin-Odanye, Ibadan University College Hospital

**Birthing While Black**

Jahleya Lindo

Mentor: Dr. Beatriz Reyes-Foster, Dr. Nessette Falu, Anthropology

**Differences in Racial Disparities for Childbirth Mortality Rates: Why are Black Women Dying?**

Pavia Quamina

Mentor: Dr. Angela Vergara, Sociology

**The Impact of COVID-19 Quarantine Measures on Familial Closeness**

Devin Reardon

Mentor: Dr. Grace White, Psychology

**An Examination of the Impact of COVID-19 on Courts Across The United States**

Glennal Verbois, Jasey Brooks

Mentor: Dr. Jill Viglione, Criminal Justice

**ENGINEERING, COMPUTER  
SCIENCE, MODELING AND  
SIMULATION**

**Graduate Presentations**

**Proportional Power Sharing  
Control of Distributed Generators  
in Microgrids**

Farzad Aalipour  
Mechanical Engineering PhD

**A Micro Impinging Jet with  
Supercritical Carbon Dioxide**

Stephen Adeoye  
Mechanical Engineering PhD

**Deposited Drops Damp Freely  
Vibrating Substrates**

MD Erfanul Alam  
Mechanical Engineering PhD

**Case Study: Privacy Analysis in  
Ubports, Ubuntu Touch vs. iPhone  
and Android**

Abdulmajeed Alghamdi  
Computer Engineering PhD

**Global Analysis on Seasonal Sea  
Level Cycle Variability**

Amanda Barroso  
Civil Engineering PhD

**Multi Dimensional Evaluation of  
E-quality Services and Its Relation  
With Consumer Satisfaction, A  
Case Study in a Small E-Business**

Erica Castilho Grao  
Industrial Engineering PhD

**A Real-Time Fall Prevention  
System Using Closed-Loop  
Functional Electrical Stimulation,  
FES**

Renoa Choudhury  
Mechanical Engineering PhD

**Hotspot Cooling Performance of  
Two Phase Jet Impingement**

Tanvir Ahmed Chowdhury  
Mechanical Engineering PhD

**A Real-World Biomechanics  
Measurement and Analysis Suit**

Surendar Devasundaram  
Electrical Engineering MSEE

**Detection of Faulty Sensors in a  
Network**

Iyanuoluwa Emiola  
Electrical Engineering PhD

**Evaluation of the Near-Zero  
Temperature Coefficient of  
Resistivity, NZ-TCR of ALD TiSixN  
Films**

Corbin Feit  
Materials Science and Engineering PhD

**Highly Integrated Grid-Tied Multi-  
Port Power Module for PV and  
Storage With Advanced Control  
Algorithm**

Sumana Ghosh  
Electrical Engineering PhD

**Exchangeable Bayesian Matrix-  
Variate Hierarchical Clustering  
With Parallel Computation**

Charles Harrison  
Big Data Analytics PhD

**Variability of Seismocardiographic  
Signals During Regular Breathing  
and Breath Holding**

Tanvir Hassan  
Mechanical Engineering PhD

**TRMM Microwave Imager Emissive  
Reflector Correction for GPM V07  
Reprocessing**

Alamgir Hossan  
Electrical Engineering PhD

**Simulation Repurposing for Law  
Enforcement**

Julie Kent  
Modeling and Simulation PhD

**Parameter Calibration and  
Optimization in Smart Grid for  
Synchronous Generators and  
Converters**

Seyyed Rashid Khazeiynasab  
Electrical Engineering PhD

**Viral Inactivation Using Localized  
UV Emission and Application in  
Self-Cleaning PPE**

Udit Kumar  
Materials Science and Engineering PhD

**Nanoindentation and  
Photoluminescence Studies of  
Hydrogenated Boron Carbon  
Nitride Thin Films**

Shraddha Nehate  
Electrical Engineering PhD

**Cation Interactions Modulate  
 $\alpha$ -actinin-crosslinked Bundle  
Formation by Stabilizing  $\alpha$ -actinin  
Binding to Actin Filaments**

Jinho Park  
Materials Science and Engineering PhD

**Keep It Cool: A Flexible Cooling  
Device**

Khan Mohammad Rabbi  
Mechanical Engineering PhD

**A Novel Concept for Cryogenic  
Hydrogen Energy Storage**

Adil Riahi  
Mechanical Engineering PhD

**Climatic And Landscape Controls  
on Long-Term Baseflow**

Lili Yao  
Civil Engineering PhD

**Undergraduate  
Presentations**

**Understanding the Challenges  
Child Welfare Workers Encounter  
Related to Promoting the Online  
Safety of Foster Youth**

Denielle Abaquita  
Mentor: Dr. Pamela Wisniewski, Computer  
Science

**Developing a Surrogate Model for  
Optimizing Number of HEC-RAS  
Simulations Required for Flood  
Risk Assessment**

Lauren Doebele  
Mentor: Dr. Mamunur Rashid, Dr.  
Thomas Wahl, Civil, Environmental, and  
Construction Engineering

**Adding Insult to Injury: How  
Reddit Users Shame People Who  
Participate in Harmful Social  
Media Challenges**

Amy Godfrey, Maria Lopez  
Mentor: Dr. Pamela Wisniewski, Computer  
Science

**From Parental Control to Family  
Oversight: A Case Study of  
Parents and Teens Co-Monitoring  
Mobile Online Safety**

Amy Godfrey  
Mentor: Dr. Pamela Wisniewski, Computer  
Science

**GRIT: Gesture Recognition in  
Technology**

Seth Horwitz, Robin Perlman  
Mentor: Dr. Joon-Hyuk Park, Mechanical  
and Aerospace Engineering

### **30 Days: Understanding Teens' Digital Lives and Online Relationships**

Max Huebler, Julia Silva, Aime Yelvington, Nafisa Chowdhury  
Mentor: Dr. Karla Badillo-Urquiola, Dr. Pamela Wisniewski, Computer Science

### **Encapsulating Doxorubicin Using Polyelectrolyte Complexes**

Cristina Lemus  
Mentor: Dr. Lorraine Leon, Materials Science and Engineering

### **Using Dual miRNA Delivery Using Cerium Oxide Nanoparticles to Enhance the Diabetic Wound Healing**

Aadith Menon  
Mentor: Dr. Elayaraja Kolanthai, Dr. Sudipta Seal, Materials Science and Engineering

### **Exploring Online Risk Exposure of Adolescents in USA**

Zachary Miller, Gabriela Rivera  
Mentor: Dr. Pamela Wisniewski, Computer Science

### **Planning a Long-Term Participatory Design Program for Adolescent Online Safety**

Quynh Nguyen, Naulsberry Jean Baptiste, Timothy Golio, Nicholas Kershaw  
Mentor: Dr. Pamela Wisniewski, Computer Science

### **The Utility of Sonospectrography for Detection of Developmental Dysplasia of the Hip**

Pinak Raodeo, Lauren Brown, Maya Hartig  
Mentor: Dr. Hansen Mansy, Mechanical and Aerospace Engineering

### **Heart Rate Variability in Terms of Demographic Information and Activity Being Conducted**

Ankur Ravikanth  
Mentor: Dr. Hansen Mansy, Mechanical and Aerospace Engineering

### **Examining Suicide Prevention Safety Apps for the Online Safety of Teens**

Marcus Seigman, Sairam Nalla  
Mentor: Dr. Pamela Wisniewski, Computer Science

### **Investigation in Engineering Leadership Using Systems Engineering and Virtual Reality**

Whitney Stuckey  
Mentor: Dr. Luis Rabelo, Industrial Engineering and Management Systems

## **FINE ARTS AND HUMANITIES**

### **Graduate Presentations**

#### **The Role of Social Media in Globalizing K-Pop Music**

Erika Clippinger  
Music MA

#### **Just Wear the Damn Mask: Insights into the Influence of Political Events on the Hashtag #WearTheDamnMask During the COVID-19 Pandemic**

Bonnie Cross  
Texts and Technology PhD

#### **Star Keeper**

Kayla Etienne  
Emerging Media MFA, Animation and Visual Effects Track

#### **Spaced Out**

Alyssa Klapka  
Emerging Media MFA, Animation and Visual Effects Track

#### **Civil War Performance, the Confederate Flag, and Patriotic Ideology in the American South: A Cultural Studies Approach**

John Lancaster  
English MA, Literary, Cultural, and Textual Studies Track

#### **The Spoon Theory**

Sanne Methorst  
Emerging Media MFA, Animation and Visual Effects Track

#### **Easy Prey**

Annika Norris  
Emerging Media MFA, Animation and Visual Effects Track

#### **The Visual Bridge of Fargo's the Law of Vacant Spaces: A Non-Linguistic Analysis**

Marissa Salas  
Texts and Technology PhD

## **HEALTH SCIENCES**

### **Undergraduate Presentations**

#### **The Relationship Between Parent and Child Health Behaviors in Youth with Autism Spectrum Disorder**

Elise Arnold  
Mentor: Dr. Jeanette Garcia, Health Sciences

#### **Facilitation of Environmental Factors to Reduce Sound Decibels in the Neonatal Intensive Care Unit: A Literature Review**

Cassandra Hanlon  
Mentor: Dr. Leslee D'Amato-Kubiet, Dr. Angeline Bushy, College of Nursing

#### **Literature Review: Sociodemographic Factors of Phytoestrogen Levels in Breast Cancer Survivors**

Jongeon Kim  
Mentor: Dr. Eunkyung Lee, Health Sciences

#### **Schizophrenia and the Pineal Gland: a Literature Review**

Kathryn Margretta  
Mentor: Dr. Angeline Bushy, Dr. Leslee Damato-Kubiet, College of Nursing

#### **Impact of Systemic Pathologies on Increased Risk of Endodontic Disorders**

Jayla Mercer  
Mentor: Dr. Suha Saleh, Health Sciences

#### **Optimizing Transcranial Magnetic Stimulation Research Methodology: How Many Pulses are Necessary to Minimize Interpulse Variability in Corticospinal Excitability?**

Jason Pagan  
Mentor: Dr. Matt S. Stock, School of Kinesiology and Physical Therapy

#### **Exploring the Effects Service Dogs Have on Veterans With PTSD**

Shelby Reeves  
Mentor: Dr. Jean Davis, Dr. Victoria Loerzel, College of Nursing

#### **Racial Disparities Among Black Women in Maternal Health: A Literature Review**

Tatiana Rich  
Mentor: Dr. Leslee D'Amato-Kubiet, Dr. Angeline Bushy, College of Nursing

#### **Rapid Grip Strength Predicts Reaction Time**

Gabriela Rodriguez  
Mentor: Dr. Matt S. Stock, Dr. Nicole Dawson, Dr. Colby Mangum, School of Kinesiology and Physical Therapy

#### **Feasibility and Acceptability of a Remote-Based Wellness Program in Young Adults With Autism Spectrum Disorder, ASD During COVID-19**

Riley Shurack  
Mentor: Dr. Jeanette Garcia, Health Sciences

**Studying Effects of Career Termination on the Collegiate Athletes' Self-Identity With the Transition Out of Sport Through the Grief and Loss Cycle**

Dylan Street  
Mentor: Dr. Thomas Fisher, Health Sciences

**Interim Nurse Management Roles: An Integrative Literature Review**

Leah Utt  
Mentor: Dr. Sandra Galura, College of Nursing

**LIFE SCIENCES**

**Undergraduate Presentations**

**The Perception, Usage, and Knowledge of *Moringa oleifera* in Mare-Brignol, Haiti after Increased Education and Access**

Preethashree Anbukkarasu, Archi Patel, Nichika Holdrum, Brandon Kaye, Leticia Ebihara  
Mentor: Dr. Mary Schmidt-Owens, Dr. Michael Deichen, Burnett School of Biomedical Sciences

**Hollow Ceria Nanoparticle Synthesis and Biomedical Applications**

Balaashwin Babu  
Mentor: Dr. Sudipta Seal, Dr. Tamil S Sakthivel, Dr. Elayaraja Kolanthai, Materials Science and Engineering

**Clay and Copper Algaecide Impacts on Freshwater Wetland Biogeochemistry**

Ashley Boggs  
Mentor: Dr. Lisa Chambers, Biology

**Long-Term Responses of Infaunal Communities to Oyster Reef Restoration**

Lyndsey Chute  
Mentor: Dr. Linda Walters, Biology

**Ruffled Feathers: Influences of Restoration and Motorized Boating Activities on Wading Bird Biodiversity and Behaviors on Intertidal Oyster Reefs**

Melanie Dalla Valle  
Mentor: Dr. Linda Walters, Biology

**Consequences of Stress-Induced Trait Plasticity on Fitness Within Cultivated Sunflower**

Gillian Gomer  
Mentor: Dr. Chase Mason, Dr. Eric Goolsby, Biology

**Natural History and Ecological Underpinnings of Zombie Ant Graveyards in Central Florida**

Sara Linehan  
Mentor: Dr. Charissa de Bekker, Biology

**Do Ranavirus Infections Impact Disease Dynamics in Juvenile Marine Turtles?**

Sydney Morton  
Mentor: Dr. Anna Savage, Biology

**Convalescent Plasma Therapy Uses, Indications, and Contraindications**

Anh Nguyen  
Mentor: Dr. Kyle Riding, Burnett School of Biomedical Sciences

**The Effects of Redox Potential on the Gas Production in *Clostridioides difficile***

Mansi Patel  
Mentor: Dr. William Self, Burnett School of Biomedical Sciences

**Is the Zombie Ant Phenomenon in Part a Product of a More Generalized Stress Response?**

Zaynah Shahab  
Mentor: Dr. Charissa de Bekker, Biology

**Effects of Vaping Additive: Determining Impact of Vitamin E on Cell Growth and Death Patterns**

Valorie Smith, Brian Brady  
Mentor: Ms. Nicole Verity, Dr. Robert Borgon, Burnett School of Biomedical Sciences

**Factors Affecting Tree Productivity**

Alyssa Uebele  
Mentor: Dr. Sasha Hararuk, Biology

**MATHEMATICS, OPTICS AND PHYSICAL SCIENCES**

**Graduate Presentations**

**From Field to Failure: Toward Extreme Solar Photovoltaic Module Durability**

Dylan Colvin  
Materials Science and Engineering PhD

**Characterizing Self-Gravity Wake Parameters in Density Waves in Saturn's Rings Using Cassini UVIS Stellar Occultation Statistics**

Stephanie Eckert  
Physics PhD, Planetary Sciences Track

**Controlling the Hemiwicking of Gold Microstructures Using Photoreactive Compounds**

Ali Haghighat Mesbahi  
Chemistry PhD

**Machine Learning Surrogate Models for Fast Bayesian Inference: Application to Exoplanet Atmospheric Retrieval**

Michael Himes  
Physics PhD, Planetary Sciences Track

**Mathematical Models for Animal Population Persistence on Symmetrical and Asymmetrical Fragmented Landscapes**

Allyson Jones  
Mathematical Science MS

**Holographic Phase Masks – Versatile Beam Shaping Optical Elements for High and Low Power Laser Applications**

Nafiseh Mohammadian  
Optics and Photonics PhD

**Nodal Line to Weyl Fermion Transition Across the Magnetic Phase of EuB6**

Christopher Sims  
Physics PhD

**Investigation of Cloud Condensation Nuclei Activity of Maleic Acid Aerosol Particles and Its Atmospheric Ageing Products**

Brett Young  
Chemistry PhD

**SOCIAL SCIENCES**

**Graduate Presentations**

**Individual Characteristics and Organizational Factors: A Hierarchical Analysis of Probation Officer Burnout and Turnover Intent**

Lucas Alward  
Criminal Justice PhD

**Paleoethnobotanical Analysis of Maya Ceramic Residues from Holtun, Guatemala**

Kimberly Batres  
Anthropology MA

**"I Am A Human": Reducing the Stigma Associated With the Correctional System**

April Chase  
Criminal Justice PhD



**Investigating the Spatial Relationship Between Sense of Place and Community-Based Organizations: Do Community-Based Organizations Influence Volunteering in the Indian River Lagoon, Florida?**

Erica Edmonston  
Sociology, Applied MA

**Identity Development Among Disadvantaged Students**

Emalee Kerr  
Clinical Psychology MA, Research Thesis Track

**Forensic Implications for Diagenetic Alteration of the Stable Isotopic Composition of Pig Ribs Following Exposure to Aqueous Conditions**

Erin Martin  
Anthropology MA

**The Construction and Validation of a New Measure of Collective Effervescence**

Christopher Nelson  
Clinical Psychology MA, Applied Pre-Licensure Non-Thesis Track

**Pandemic Related Identity Distress In College Students With Health Conditions**

Bailey Wagaman  
Clinical Psychology MA, Research Thesis Track

**Couples with Infertility: The Influence of Quality of Life, Relationship Satisfaction, Resilience, Depression and Shame**

Niko Wilson  
Education PhD, Counselor Education Track

## Undergraduate Presentations

**The Effects of Evangelical Religion on Latin America: A Case Study on Brazil and Venezuela**

Isabella Castro  
Mentor: Dr. Bruce Wilson, Dr. Barbara Kinsey, School of Politics, Security, and International Affairs

**“To Love or To Loathe”: The Impact of Childhood Bullying on The Quality of Adult Romantic Relationships**

Richelle Cruz Quetell  
Mentor: Dr. Grace White, Dr. Karen Mottarella, Psychology

**Training Resilience in Aviation Systems: A Literature Review**

Yazmin Diaz  
Mentor: Dr. Peter Hancock, Dr. Jessica Cruik, Psychology

**News on Social Media and Attitudes among Consumers**

Hang Duong  
Mentor: Dr. Chrysalis Wright, Psychology

**Capacity and Change in Climate Migrant-Receiving Communities in Central Florida**

Maria Grisales, Veronica Arroyo, Sophia Chapdelaine, Katina Negrón  
Mentor: Dr. Fernando Rivera, Sociology

**Effects of Death Anxiety on Learning Performance**

Umair Haseeb  
Mentor: Dr. Corey Bohil, Psychology

**Floxed: Case Studies in the Lived Experiences of Individuals with Fluoroquinolone Poisoning**

Luciana Jones  
Mentor: Dr. Janan Smither, Dr. Daniel McConnell, Psychology

**Fake News and Women: Fake and Real Media's Impact on Sexism in Consumer Attitudes**

Alexandra Oropallo  
Mentor: Dr. Chrysalis Wright, Dr. Jason Chesnut, Psychology

**Hemispheric Positionality: Body, Race, and Disposition**

Micah Parker  
Mentor: Dr. Nesette Falu, Anthropology, Dr. Paul Joseph López Oro, Smith College

**The Effect of Relaxation on Employee Well-Being After Experiencing Job Stressors**

Zoe Politis, Angela Le, James Lai  
Mentor: Dr. Mindy Shoss, Psychology

**Fake News: The Impact of Misinformation on Prejudice**

Stephanie Restrepo  
Mentor: Dr. Chrysalis Wright, Psychology

**Compounding Harm: Climate Justice, Hurricane Harvey, and Urban Planning in Houston**

Sarah Royer  
Mentor: Dr. Peter Jacques, School of Politics, Security, and International Affairs

**EDUCATION****Undergraduate Presentations****Investigating the Effects of Alternative Assignments on Student Attitudes in a Remote Teaching Environment**

Cameron Bechard  
Mentor: Dr. Nicole Lapeyrouse, Chemistry

**Exploring the Variation in COVID-19 Response Strategies in Community Corrections Agencies Across the United States**

Nicole Niego, Priscilla Louis  
Mentor: Dr. Jill Viglione, Criminal Justice

**BIPOC Communities and COVID-19: An Analysis of 2020's Growing Civil Unrest**

Alexia Parra Tineo  
Mentor: Dr. Jill Viglione, Criminal Justice

**An Exploration of the PedsAcademy Internship's Influence on Aspiring Educators' Preparation to Teach Children with Chronic Illnesses**

Karla Sanabria  
Mentor: Dr. Michelle Kelley, Dr. Rebeca Grysko, School of Teacher Education, Dr. Haiyan Bai, Learning Sciences and Educational Research

**ENGINEERING, COMPUTER SCIENCE, MODELING AND SIMULATION****Undergraduate Presentations****A Comparative Study on Reliability of Heart Rate, Blood Oxygen Saturation, and Respiration Rate using Photoplethysmography at Lower and Upper limbs**

Sonia Alvarez, Rachael Sak, Carlos Acosta  
Mentor: Dr. Joon-Hyuk Park, Electrical and Computer Engineering

**Development Of A Computationally Inexpensive Method Of Simulating Primary Droplet Breakup**

Brendon Cavainolo  
Mentor: Dr. Michael Kinzel, Dr. Andrew Dickerson, Mechanical and Aerospace Engineering

**Elucidation of the Role of an Anti-Epileptic Drug on Astrocyte Mechanics**

Priyanka Chandrashekar  
Mentor: Dr. Robert Steward, Mechanical and Aerospace Engineering

**Effects of CMAS Infiltration on Thermal Barrier Coatings Analyzed by Confocal Raman Spectroscopy and Synchrotron High-Energy X-Rays**

Vanessa D'Esposito  
Mentor: Dr. Seetha Raghavan, Mechanical and Aerospace Engineering

**Developing a 3D Printing Method to Print Stress Sensing Sensors for Structural Health Monitoring**

Perla Latorre-Suarez, Rohan Madathil, Vanessa D'Esposito, Nya Segura-Watson, Felix Morales  
Mentor: Dr. Seetha Raghavan, Mechanical and Aerospace Engineering

**Laser Powder Bed Fusion of Stainless Steel 15-5PH: Microstructure Analysis and Process Optimization**

Cameron Lucas  
Mentor: Dr. Yongho Sohn, Materials Science and Engineering

**Pitch Representations Emerge in Artificial Neural Networks Optimized for Everyday Auditory Tasks**

Bryan Medina  
Mentor: Dr. Josh McDermott, Massachusetts Institute of Technology

**How Adolescents in the Child Welfare System Seek Support Online**

Taylor Moraguez  
Mentor: Dr. Pamela Wisniewski, Computer Science

**IoT-Enabled Smart Mobility Devices for Aging and Rehabilitation**

Nafisa Mostofa  
Mentor: Dr. Damla Turgut, Computer Science

**Multi-Modal Sensory Feedback for Enhanced Rowing Motor Learning**

Magdalena Pasternak, Megan Contte  
Mentor: Dr. Joon-Hyuk Park, Mechanical and Aerospace Engineering

**Left Ventricular Strains During Late Filling in a Preclinical Model**

Saar Peles, Sarah Villamil  
Mentor: Dr. Luigi Perotti, Mechanical and Aerospace Engineering

**Ambient-Assisted Living Framework for Generalized Anxiety Disorder Staging and Real-Time Monitoring**

Geela Margo Ramos  
Mentor: Dr. Joon-Hyuk Park, Mechanical and Aerospace Engineering, Dr. Daniel Paulson, Psychology

**Laser Powder Bed Fusion of White Cast Iron: A Study with a Vision for 3D Printing of Regolith Derived Metallic Alloys**

Brynn Reph  
Mentor: Dr. Yongho Sohn, Materials Science and Engineering

**Using Agarose to Deliver miRNA 146-a Conjugated Cerium Oxide Nanoparticles**

Architha Venkatesan  
Mentor: Dr. Elayaraja Kolanthai, Materials Science and Engineering

**Perspectives on Young Children's Autonomy and Privacy on Social Media**

Aneka Williams, Madeline Alvarez  
Mentor: Dr. Mary Jean Amon, School of Modeling, Simulation and Training

**FINE ARTS AND HUMANITIES****Graduate Presentations****An Examination of the Visual and Textual Rhetoric Uses in the #Block\_famous\_campaign in Saudi Arabia**

Ream Al-ghamdi  
Texts and Technology PhD

**Nursing Narratives: Mapping Nurses' Convalescent Homes and Rest Clubs from the First World War**

Kayla Campana  
History MA

**The Damage We Do: A 3D Exhibit on Looted Artifacts**

Trevor Colaneri  
History MA, Public History Track

**The Study of Free Will in the East and the West**

Nicholas Colecio  
English MA, Literary, Cultural, and Textual Studies Track

**How Twitter Exposes Daily Whiteness Practices in Mexico and Argentina**

Erika Heredia  
Texts and Technology PhD

**The Queer Ringmaster: Chick Austin and the Circus Museum**  
David Matteson  
Texts and Technology PhD

**Music Concrète, Italian Futurism, and Visual Music Animation**  
Daniel McCabe  
Emerging Media MFA, Animation and Visual Effects Track

**Between Socialism and Empire: The Social Democratic Party of Germany and the Herero Wars**  
Taylor Rayfield  
History MA

## HEALTH SCIENCES

### Graduate Presentations

**Florida Court Staff Perceptions Regarding Barriers to Medications for Opioid Use Disorder**  
Fatema Ahmed  
Public Affairs PhD, Health Services Management and Research Track

**Force/Load-Velocity Profiling Methods and Army Combat Fitness Test Performance in ROTC Cadets**  
David Boffey  
Exercise Physiology, Education PhD

**An Ethical Analysis on the View of Cadavers in Medical Education Through the Lens of Flexner II**  
Alexandra Bunea  
Biomedical Sciences MS, Integrated Medical Sciences Track

**Early Onset of Fatigue Thresholds as an Indication of Impaired Aerobic Capacity of the Arm Muscles**  
Nicolas Clark  
Education PhD

**The Efficacy and Potential Benefits of Moderate Intensity Exercise for Community-Dwelling Older Adults with Dementia or Mild Cognitive Impairment: A Systematic Review**  
Alec Davis  
Physical Therapy DPT

**Optimizing CD4 T Cell Responses to Influenza Virus through Transcriptional Programming**  
Caroline Finn  
Biomedical Sciences PhD

**Influenza A Virus-Specific CD4 T Cell Subset Polarization Is Retained Following Treatment With 17 $\beta$ -Estradiol**  
Valeria Flores Malavet  
Biomedical Sciences PhD

**What Patient Population Utilizes Cash Based Physical Therapy Services?**  
Melinda Geisel  
Physical Therapy DPT

**Optimizing B-Mode Ultrasonography Research Methodology: Does Image Depth Influence Echo Intensity?**  
Ryan Girts  
Exercise Physiology, Education PhD

**Carbohydrate-Protein Co-Ingestion Effectively Promotes Recovery Between Bouts of Exhaustive Intermittent Exercise**  
Erica Goldstein  
Exercise Physiology, Education PhD

**Reliability and Validity of TMG, a Systematic Review**  
Daniel Hampton  
Physical Therapy DPT

**Test-Retest Reliability of Corticospinal Excitability and Inhibition of an Agonist-Antagonist Pair**  
Kylie Harmon  
Exercise Physiology, Education PhD

**3D Printing an Osteochondral Implant**  
Kari Martyniak  
Biomedical Sciences PhD

**Examining the Effects of Amplitude-Based Training in Individuals with Parkinson's Plus Syndromes and Secondary Parkinsonism: A Case Series**  
Emily Morrell  
Physical Therapy DPT

**Musculoskeletal Pain Interference Due to Remote Working in Response to COVID-19**  
Mollie Przybocki  
Athletic Training MAT

**Effects of Interrupted Routine Due to COVID-19 on Circadian Chronotype and Leisure Time Physical Activity**  
Justine Renziehausen  
Exercise Physiology, Education PhD

**A Retrospective Data Analysis on Mechanism of Injury, Method of Entry, and Amount of Money Spent on Cash Based Physical Therapy**  
Justin Richmond  
Physical Therapy DPT

**Challenges and Barriers on the Implementation of Rehabilitation Exercises for Scapular Dyskinesia via Telemedicine: A Clinician's Perspective**  
Zamaris Rivera  
Athletic Training MAT

**Local Versus Systemic Hypoxia: Differences in Neuromuscular Function During Exercise**  
Paola Rivera  
Exercise Physiology, Education PhD

**Exploring the Knowledge, Perceptions and Attitudes of Typical Middle and High School Students Towards Individuals With Disabilities**  
Nicole Russell  
Physical Therapy DPT

**Spermidine Rescued PTPN2/22 Function in CRISPR-Cas9-edited T-cells with PTPN2/22 SNPs Linked to Crohn's Disease and Rheumatoid Arthritis**  
Ameera Shaw  
Biotechnology MS

**Examining the Reliability of the Upper Body 3-Minute Critical Power Test**  
Tristan Starling-Smith  
Exercise Physiology, Education PhD

**Medications for Opioid Use Disorder and Naloxone in News Media from 2005-2019**  
Rachel Totaram  
Public Affairs PhD, Health Services Management and Research Track

**Retention of Athletic Trainers in the Secondary School Setting**  
Emily Tran  
Athletic Training MAT

**Stress and Coping Among Pregnant Black Women during the COVID-19 Pandemic**  
Jenna Wheeler  
Nursing PhD, BSN to PhD Track

**LIFE SCIENCES****Undergraduate Presentations**

**Can Lifespan be Extended with a Drug? Analysis of a Novel Compound that Mimics Dietary Methionine Restriction**

Natali Barakat

Mentor: Dr. Laurence von Kalm, Biology

**Targeting Arginine Biosynthesis to Control and Reverse Small Cell Transformation in Lung Cancer**

Robert Burns

Mentor: Dr. Wencai Zhang, Burnett School of Biomedical Sciences

**Development of Transgenic *Cordyrcps bassiana* for the Verification of Putative Behavioral-Manipulation Genes in *Ophiocordyceps Camponoti-floridani***

Devin Burris

Mentor: Dr. Charissa de Bekker, Biology

**The Effects of Roundup on Disease Transferability Probability of *Aedes aegypti***

Michele Crowhurst

Mentor: Dr. Kenneth Fedorka, Biology

**Pollinator Abundance and Diversity in Natural Lands Versus Urban Landscapes**

Kaili Gruwell, Alannah Callaghan, Lauren Betza, Ian Schwartzberg, Lauren Hanks

Mentor: Ms. Jennifer Elliott, Biology

**Single-Cell Metabolic Profiling of Immune Response During Severe COVID-19 Reveals Multiple Potential Therapeutic Targets**

Sanjeev Gurshaney

Mentor: Dr. Hung Nguyen, Burnett School of Biomedical Sciences

**Designing A Restoration Plan for the UCF Arboretum Boardwalk To Enhance Biological Functionality and Community Engagement With Nature**

Alexandra Holiday, Veronica Renzette, Juliana Ser, Emma Roehrig, Lily Jaczko

Mentor: Ms. Jennifer Elliott, Biology

**Investigating Microplastic Abundance and Hotspots in the Guana River**

McKenna Keplinger

Mentor: Dr. Linda Walters, Biology

**LncRNA PAINT Promotes Prostate Cancer Progression Through Modulation of Genes Involved In Epithelial-mesenchymal Transition and Apoptosis**

Ayman Khatib

Mentor: Dr. Ratna Chakrabarti, Burnett School of Biomedical Sciences

**Luminescence Stabilization in Gaussia Luciferase Assay**

Alesia Lokshina

Mentor: Dr. Thomas Kean, Burnett School of Biomedical Sciences

**Development of a SOX9 Reporter Cell for High-Throughput Chondrogenic Assessment**

Alyssa Mickle

Mentor: Dr. Thomas Kean, Burnett School of Biomedical Sciences

**Understanding the Genetic Control of Secondary Metabolism Within Sunflowers**

Emir Saffar

Mentor: Dr. Chase Mason, Biology

**Carbon Sequestration of Longleaf Pines Across Three Ecosystems**

Danielle Vincent, Chere' Erickson, Thomas Jordan Evans, James Ray Bardo Jr., Alec Santiago

Mentor: Ms. Jennifer Elliott, Biology

**SOCIAL SCIENCES****Undergraduate Presentations**

**The Impact of Hope on Loneliness**

Taila Ben-lulu

Mentor: Dr. Janan Smither, Dr. Daniel McConnell, Psychology

**Associations between Adverse Childhood Experiences ACEs and Suicide Risk Factors and Warning Signs**

Ashley Cieplensky

Mentor: Dr. Kimberly Gryglewicz, School of Social Work

**Sorority Women in STEM and Imposter Syndrome**

Lindsay Eisenstark

Mentor: Dr. Angela Vergara, Sociology

**Understanding People's Perceptions About Transracial Adoptions**

Marielle Garvey

Mentor: Dr. Valerie Sims, Psychology

**Effects of Cellphone Use on Working Memory**

Amanda Gonzalez, Argelis Milian Robles

Mentor: Dr. Marisol Parra-Tatge, Psychology

**Predicting Objective Career Success: An Examination of Leadership and Proactive Personality**

Isabella Guerrero

Mentor: Dr. Victoria Pace, Dr. Marisol Parra-Tatge, Psychology

**Spaces Between and Things Unseen: An Archaeological Analysis of the Burns Site**

Erin Hage, Daniel Langdon, Ashley Comstock

Mentor: Dr. Sarah B. Barber, Anthropology

**Individual Variation in Causal Learning**

Laila Johnston

Mentor: Dr. David Danks, Carnegie Mellon University

**The Role of Acculturative Stress on Immigrant Mental Health**

Daaman Lall

Mentor: Dr. Shahram Ghiasinejad, Psychology

**Penny and Its People: An Archaeological and Holistic Approach to Settlements in Cape Canaveral, Florida**

Lauren Lehman, Amara Williams, Jennifer Moreno, Lydia Kiernicki

Mentor: Dr. Amanda Groff, Dr. Sarah Stacy Barber, Dr. Neil Duncan, Anthropology

**Coping Mechanisms in Graduate School Discipline Specific Comparison**

Sandra Montenegro

Mentor: Dr. Steve Jex, Dr. Kristin Horan, Psychology

**Examining the Relationship Between Mood Disorders and Risk Perception in Determining COVID-19 Preventative Behaviors**

Krupali Patel

Mentor: Dr. Nichole Lighthall, Psychology

**Elaboration in Narratives of Covid-19: Relations to Mental Health**

Jullianna Stalbaum

Mentor: Dr. Widaad Zaman, Psychology

**Everything is Under Control: The Types of Autonomy and Their Effect on Job and Life Satisfaction**

Eram Syed, Magali Scotto-Lavina, Nathaly Rayo, Malek Kalai

Mentor: Dr. Mindy Shoss, Psychology

**EDUCATION****Undergraduate Presentations****Analysis of Spatial Hierarchy of Real and Ideal Chemistry Learning Spaces**

Bethany Arcaya, Brianna Ewing  
Mentor: Dr. Julie Donnelly, Dr. Nicole Lapeyrouse, Chemistry

**Designing an ELA Thematic Unit with Students with ASD in Mind: The Synthesis of Social-Emotional Learning and Writing Strategy Instruction**

Maya Govea Calderon  
Mentor: Dr. Norine Blanch, Dr. Mary Little, School of Teacher Education

**The Relationship Between Campus Involvement and Civic Engagement**

Sheina Koolik  
Mentor: Dr. Gregg Buckingham, Dr. Daniel Seigler, School of Public Administration

**Internalized Argot Roles on Perception of Fear and Manipulation in Jail**

Keily Mena  
Mentor: Dr. Frances Abderhalden, California State University, Los Angeles

**Racial Biases in Early Childhood Classrooms Among Pre-Service and In-Service Teachers**

Tiffany Tan  
Mentor: Dr. Marisa Macy, Dr. Judith Levin, School of Teacher Education

**FINE ARTS AND HUMANITIES****Undergraduate Presentations****Understanding Africa in the 21st Century: The Past, Present, and the Prospect for the Future**

Sengo Pauline Kabambi  
Mentor: Dr. Obi Nwakanma, English

**Tales of Sunshine: Short Film Series Documenting Diverse Florida Conservationists and Their Lives During COVID-19**

Vincent Marcucci, Christopher Shick  
Mentor: Ms. Lisa Peterson, Nicholson School of Communication and Media

**The Definers and the Defined: The Conditionality of Global South Tendencies in the Works of Anita Brenner and Una Marson**

Zohra Qazi  
Mentor: Dr. Louise Kane, English

**Thrive: Using Theatre for Social Change to Promote Learning, Well-Being, and Personal Application Among Undergraduate Students**

Seva Reilly  
Mentor: Prof. Sybil St. Claire, School of Performing Arts

**A Third Culture Kid's Quest for Belonging: Ephemeral, Eternal, and the Space in Between**

Simona Wiig  
Mentor: Prof. Byron Clercx, Dr. Ilenia Colon Mendoza, School of Visual Arts and Design, Dr. Martha Garcia, Modern Languages and Literatures

**HEALTH SCIENCES****Undergraduate Presentations****A Literature Review on The Potential Impact of COVID-19 on The Future of Human Subject Research**

Sarah Akbarpour  
Mentor: Dr. L. Colby Mangum, Health Sciences

**Contralateral Repeated Bout Effect of the Elbow Flexors in Untrained Males**

Ariel Alberto  
Mentor: Dr. Nicholas Coker, Springfield College

**Talk and Play with Me: Facilitated Playgroups to Promote Communication Skills**

Kasey Allen  
Mentor: Dr. Jacqueline Towson, School of Communication Sciences and Disorders

**The Relationship Between Rapid Weight Loss and Physical Performance in Combat Sports**

Sean Cavey  
Mentor: Dr. Anna Valdes, Dr. Thomas Fisher, School of Kinesiology and Physical Therapy

**Using Physical Exercise Interventions to Reduce Depression and Anxiety in People with Lung Cancer**

Jordan Dubocq  
Mentor: Dr. Victoria Loerzel, Dr. Jean Davis, College of Nursing

**Home-Based Interventions to Lower Neonatal Mortality Rates in Developing Countries**

Josee Etienne  
Mentor: Prof. Donna Breit, Dr. Dawn Turnage, Dr. Desiree Diaz, College of Nursing

**The Effects of Maternal Alcohol Consumption on Risk of TDS Development in Their Sons**

Alexa Gallelli, Janet Guelmes  
Mentor: Dr. Michael Rovito, Health Sciences

**The Effects of Martial Arts Training on Social Interaction in Children with Autism Spectrum Disorder, ASD**

Serenity Jackson  
Mentor: Dr. Jeanette Garcia, School of Kinesiology and Physical Therapy

**Readability of Cochlear Implant Brochures: A Potential Factor in Parent Choice**

Jennifer La Scala  
Mentor: Dr. Janel L. Cosby, Dr. Linda I. Rosa-Lugo, Dr. Richard I. Zraick, School of Communication Sciences and Disorders

**Evaluating the Negative Influences of COVID-19 on the Aphasic Community and Related Healthcare Providers**

Maireni Nunez  
Mentor: Dr. Antony Pak-Hin Kong, School of Communication Sciences and Disorders

**The Fighting Journey of the Premature Baby: A Systemic Review**

Dana Patel  
Mentor: Dr. Katia Ferdowski, Health Sciences, Dr. Jacqueline Towson, School of Communication Sciences and Disorders

**Food Insecurity After Hurricane Maria: Perceptions and Psychological Effects Among Puerto Ricans**

Valeria Sostre  
Mentor: Dr. Humberto Lopez Castillo, Health Sciences

**LIFE SCIENCES****Graduate Presentations****Surface Flow Constructed Wetland Organic Matter Reduction Via Periodic Water Level Draw-Down**

Paul Boudreau  
Biology MS

**Counteractive Effects of Electrostatics and Macromolecular Crowding on Actin Bundle Mechanics and Secondary Structure**

Nicholas Castaneda  
Biomedical Sciences PhD

**E-cigarette Vape Enhances *S. Aureus* Oral Colonization and the Epithelial Immune Response**

Alma Catala Valentin  
Biomedical Sciences PhD

**Crowder Size Influences Actin Assembly Dynamics and Kinetics**

Bryan Demosthene  
Nanotechnology MS

**Inhibition of Polyamine Transport in Human Pancreatic Cancer Cells by an Indole Compound GW5074**

Aiste Dobrovolskaite  
Biomedical Sciences PhD

**Anti-MAP Triple Therapy Supports Immunomodulatory Therapeutic Response in Crohn's Disease**

Erij Elkamel  
Biotechnology MS

**DosRS Mediated Adaptation of *Mycobacterium abscessus* to Hypoxic and Nitrosative Stress**

Breven Gaines  
Biomedical Sciences PhD

**Monitoring Competition Jump Load in Division I Female Collegiate Volleyball Athletes**

Chad Herring  
Exercise Physiology, Education PhD

**The Recovery of Single Source DNA Profiles from Contributors to Complex Mixtures by Direct Single Cell Subsampling, DSCS**

Kaitlin Huffman  
Chemistry PhD

**Endocytosis of the CdtA Subunit from *Haemophilus ducreyi* Cytolethal Distending Toxin**

George Huhn  
Biomedical Sciences PhD

**Small Organic Osmolytes Accelerate Actin Filament Assembly**

Pavlo Kravchuk  
Nanotechnology MS, Non-Thesis Track

**Using Codon Frequencies to Classify Gene Sequences to Biochemical Pathways Using Machine-Learning**

Sambadi Majumder  
Integrative and Conservation Biology PhD

**Methods to Quantify Mineral Associated Organic Matter in Subtropical Wetlands**

Anthony Mirabito  
Biology MS

**Targeting the Succinate Dehydrogenase Enzyme In Non-Small Cell Lung Cancers**

Nicholas Skiados  
Biomedical Sciences MS

**Defining MprF Mediated Lipid Modifications in Actinobacteria and Examining Their Role in Antimicrobial Resistance**

Danielle Worrell  
Biomedical Sciences PhD

**Engineered Iridium Nanoparticles for Bio-Sensing and Disease Biomarker Detection**

Tamar Yishay  
Nanotechnology MS

**Undergraduate Presentations**

**Application of Bonferroni and Holm Methods in Biomedical Research**

Jarod Barnhart  
Mentor: Dr. Julia Soualakova, Population Health Sciences

**UCF Students' Knowledge of Sexually Transmitted Diseases**

Danielle Faketty  
Mentor: Dr. Alicia L Hawthorne, Burnett School of Biomedical Sciences

**Crystallization of the Fusion Protein GST-EGFP**

Nancy Flynn  
Mentor: Dr. Robert Borgon, Ms. Nicole Verity, Burnett School of Biomedical Sciences

**Efficacy of Cystatin C Over Creatinine as a Renal Marker for Acute Kidney Injury in Select Patient Populations**

Matthew Hibdon  
Mentor: Dr. Kyle Riding, Burnett School of Biomedical Sciences

***Clostridioides difficile* Motility in Defined Culture Media and Its Response to Nutrients**

Mary Ishak  
Mentor: Dr. William Self, Burnett School of Biomedical Sciences

**Delineating the Five Subspecies of Native Beach Sunflower, *H. debilis***

Nathan Leemis  
Mentor: Dr. Chase Mason, Biology

**Conservation in Palm Beach County: Using GIS Mapping to Improve Shoreline Management Efforts**

Cristina Lingvay  
Mentor: Dr. Melinda Donnelly, Biology

**Phototransduction Components Involved in the Visual System of the Lone Star Tick**

Arimar Lopez  
Mentor: Dr. Robert R. Fitak, Biology

**Mapping Stress Hormone Synthesis: Pnmt Localization and Expression in the Cerebellum**

Meeti Mehta  
Mentor: Dr. Steven Ebert, Burnett School of Biomedical Sciences

**The Two N-terminal Thioredoxin Domains of Protein Disulfide Isomerase are Sufficient for Cholera Toxin Disassembly**

Antonio Mele  
Mentor: Dr. Ken Teter, Burnett School of Biomedical Sciences

**Effects of Cosmic Radiation Exposure to Bone Regeneration Mechanisms and P53 Activation**

Idael Ortiz  
Mentor: Dr. Melanie Coathup, Dr. Raj Sawh-Martinez, Burnett School of Biomedical Sciences

**Multifactorial Media Optimization via Design of Experiment Strategy Results in Increased Type 2 Collagen Expression in Cartilage Tissue**

Javier Velez Toro  
Mentor: Dr. Thomas Kean, Burnett School of Biomedical Sciences

## MATHEMATICS, OPTICS, AND PHYSICAL SCIENCES

### Undergraduate Presentations

**Analysis of SONORA Substellar Atmosphere Models and Spectra Dataset Using Machine Learning**  
Alex Cingoranelli  
Mentor: Dr. Joseph Harrington, Physics

**Model Creation and Analysis for COVID-19**  
Matthew Crespo  
Mentor: Dr. Zhisheng Shuai, Mathematics

**Developing a DNA Machine for Biomarker-Activated Cleavage of a Housekeeping Gene mRNA**  
Jocelyn Evins  
Mentor: Dr. Dmitry Kolpashchikov, Chemistry

**On the Molecular Basis of Alzheimer's Disease**  
Bryan Garcia  
Mentor: Dr. Suren A. Tatulian, Physics

**Modeling and Analysis of COVID-19 and Dynamical Systems in Biology and Physics**  
Vladimir Grbic  
Mentor: Dr. Costas Efthimiou, Physics

**The Cognitive Role of Amyloid Beta and Tau Protein in Alzheimer's Disease**  
Rowan Hassan  
Mentor: Dr. Suren A. Tatulian, Physics

**Asymptotics of Greedy Energy Sequences**  
Ryan McCleary  
Mentor: Dr. Abey Lopez-Garcia, Mathematics

**Application of Edge Detection Techniques to Angle Resolved Photoemission Spectroscopy Data**  
Luis Persaud  
Mentor: Dr. Madhab Neupane, Physics

**Electrostatics and Riemann Surfaces**  
Spencer Tamagni  
Mentor: Dr. Costas Efthimiou, Physics

**Simulating Systematic Errors and Exoplanet Transits for the James Webb Space Telescope**  
David Wright  
Mentor: Dr. Joseph Harrington, Physics

## SOCIAL SCIENCES

### Graduate Presentations

**Cybersecurity: The Problematic of Constructing an Interdisciplinary Methodology to Theorize and Analyze the Emerging Discipline in the Digital Domain**  
Hajer Albalawi  
Texts and Technology PhD

**Macro-Level Factors Impacting Colorectal Cancer Screening Behavior Among Church-Going Chinese Immigrants: A Convergent Mixed-Method Study**  
Xian Cao  
Public Affairs PhD, Health Services Management and Research Track

**Leveraging Digital Platforms to Capture Multimodal Data on Diagnostic Reasoning**  
Elizabeth Cloude  
Education PhD, Learning Sciences Track

**Surrounded By The Dead: A Spatial Analysis Of Kuelap's Mortuary Practices, Peru**  
Hannah Haynes  
Anthropology MA

**Bayesian Nearest Neighbor Matrix-Normal Gaussian Process Model**  
Qing He  
Big Data Analytics PhD

**The Direct and Indirect Effects of Strategic Civilian Displacement on Territorial Control in Conventional Civil War**  
Jennifer Hudson  
Security Studies PhD

**Climate, Violent Conflict and Women's Economic Empowerment in the Nigerian North East**  
Jennifer Joel  
Security Studies PhD

**How Incarceration History Affects Opioid Use**  
Laura Lightfoot  
Sociology, Applied MA

**Juvenile Probation and COVID-19: Examining the Challenges and Implementation of New Strategies**  
Ashley Lockwood  
Criminal Justice PhD

**Companionship Matters: User-Desired Qualities in Human-Robot Social Companionship**  
Fernando Montalvo  
Human Factors and Cognitive Psychology PhD

**Contextualizing Self-Abandonment Through Identity in Romantic, Social, and Family Relationships**  
Rawad Nahhas  
Communication MA

**Read All About It: The D-Day Inspired Shift in British World War II Journalism**  
Jessica Oldham  
History MA

**A Body In Focus: Examining Ancient Maya Life and Death Through Osteobiography**  
Horvey Palacios  
Anthropology MA

**The Internal Heterogeneity of Terrorist Organizations**  
Erika Ricci  
Security Studies PhD

**Towards a Definition of Transactional Sex in the Scientific Literature a Systematic Narrative Literature Review**  
Daniel Serrano  
Kinesiology MS

**From Waves to Huacas Stable Isotope Analysis of Ancient Social Elite Diet at Túcume Peru**  
Dylan Smith  
Anthropology MA

**Hispanic Serving Institutions: Exploring the Depth of a Designation**  
Ashley Stone  
Sociology PhD

**Meeting in the Middle: The Role of Cultural Diversity in Spaceflight**  
Krisztina Szabo  
Industrial and Organizational Psychology PhD

**Systematic & Theoretical Analysis of Research: Habitation-Moon**  
Xeona Villegas  
Nondegree or Transient

**Florida Campaign Money: Are Constituents being Represented?**  
Craig Wilding  
Political Science MA

**Averting School Mass Shootings**  
Ashley Winch  
Clinical Psychology PhD

## **Undergraduate Presentations**

### **An Investigation Into Provider Communication at UCF and the Impact of Health Literacy on Teach-Back Outcomes**

Shreya Atmakuri

Mentor: Dr. Ann Miller, Nicholson School of Communication and Media, Dr. Richard Zraick, School of Communication Sciences and Disorders

### **The Role of Conscientiousness on the Relationship between Information Processing, Job Satisfaction, and Cognitive Engagement**

Ignacio Azcarate, Jeff Emile

Mentor: Dr. Mindy Shoss, Psychology

### **The Role of Work-Family Conflict on the Relationship Between Job Autonomy and Organizational Commitment**

Giselle Chaviano, Rishika Sharma

Mentor: Dr. Mindy Shoss, Psychology

### **The Feasibility of Recruiting the Elderly in Minority Groups for Research During a Global Pandemic**

Oscar Garcia

Mentor: Dr. Ladda Thiamwong, College of Nursing

### **Awareness of Suicide Risk Factors and Warning Signs Differ Based on Demographics**

Fatima Hussain

Mentor: Dr. Kimberley Gryglewicz, School of Social Work

### **A Study Exploring the Factors that Influence Abortion Related Opinions in the US**

Calissa Jones

Mentor: Dr. Kenicia Wright, Dr. Anca Turcu, School of Politics, Security, and International Affairs

### **Aftermath: The Impact of an OB/GYN Appointment on the Mental Health of Queer Assigned-Female-At-Birth Sexual Assault Survivors with AFAB Perpetrators**

Madeline Judy

Mentor: Dr. Jason Chesnut, Psychology

### **Working Memory and Executive Functioning in Older Adult Cannabis Users**

Madison Maynard

Mentor: Dr. Daniel Paulson, Dr. Michael Dunn, Psychology

### **Craving for Attention: Examining Mood and Attention Bias In The Moment as Predictors of Alcohol Craving**

Katie Moskal

Mentor: Dr. Robert Dvorak, Psychology

### **The Effects of Health Crises on Democracy in sub-Saharan Africa**

Abigail Reynolds

Mentor: Dr. Jonathan Powell, School of Politics, Security, and International Affairs

### **Gender Ideology, Gender Consciousness, and Identity Among Conservative Baptist Women: An Intersectional Perspective**

Marina Rivera Ramos

Mentor: Dr. Michael Armato, Sociology

### **Narrative Elaboration of Adverse Experiences and Mental Health**

Serena Somberg

Mentor: Dr. Widaad Zaman, Psychology



## FINE ARTS AND HUMANITIES

### Undergraduate Presentations

#### Cultural Norms of Russian and American Women in the 21st Century

Emma Bancroft  
Mentor: Dr. Alla Kourova, Modern Languages and Literatures

#### Look Out, Here Comes Fraud!: A Multimodal Analysis of Retail Scammers

DiGray Olcima  
Mentor: Melissa Pompos Mansfield, Writing and Rhetoric

#### Systemic Inequalities for Afro-Brazilians

Teya De Oliveira  
Mentor: Dr. Sandra Sousa, Modern Languages and Literatures

#### How Some Registered Student Organizations, RSOs Have Organized During the COVID-19 Pandemic

Kurt Ramos  
Mentor: Dr. Kevin Roozen, Writing and Rhetoric, Dr. J.D. Applen, Dr. Peter Telep, English

## HEALTH SCIENCES

### Undergraduate Presentations

#### Perceptions and Health Effects of Electronic Cigarettes among College Students

Safia Centner  
Mentor: Dr. Suha Saleh, Health Sciences

#### Complementary and Alternative Treatments for Individuals with Epilepsy

April Detrick  
Mentor: Dr. Leslee D'Amato-Kubiet, Dr. Angeline Bushy, College of Nursing

#### Evaluating the Nutritional Adequacy of Peruvian-American Children

Delainey Dietz  
Mentor: Dr. Desiree Diaz, College of Nursing

#### Influence of Body Composition on Army Combat Fitness Test Performance

Joseph DiPrima, Amanda Straus, Carson McAbee, Bianca Monis, Hannah Bauta  
Mentor: Dr. David Fukuda, School of Kinesiology and Physical Therapy

#### Exploring the Relationship between Disordered Eating, Internalized Homophobia, and Self-Esteem in Men Who have Sex with Men

Gabriel Garces  
Mentor: Dr. Humberto López Castillo, Health Sciences

#### The Psychological Benefits of a Remote Physical Activity Intervention in Young Adults with Autism Spectrum Disorder

Madisyn Pelchat  
Mentor: Dr. Jeanette Garcia, Health Sciences

#### Association Between Plasma Genistein and Health-related Quality of Life In Breast Cancer Survivors

Tran Pham  
Mentor: Dr. Eunkyung Lee, Dr. Mohammadali Amirkhosravi, Health Sciences

#### Readability of IDEA Procedural Safeguards Written in Spanish

Stella Quintero  
Mentor: Dr. Richard Zraick, Dr. Linda Rosa-Lugo, School of Communication Sciences and Disorders

#### Sedentary Behavior: An Obesogenic Risk Factor in Rural Children

Serina Rayan  
Mentor: Dr. Keith Brazendale, Health Sciences

#### Use of Mechanical Pronation Beds to Treat Patients with Acute Respiratory Distress Syndrome in the Intensive Care Unit setting: An Integrative Review of the Literature

Amanda St. John  
Mentor: Dr. Angeline Bushy, Dr. Leslee D'Amato-Kubiet, College of Nursing

#### Patient-Reported Outcome Measures in Voice: An Updated Readability Analysis

Julia Stefu  
Mentor: Dr. Richard Zraick, Dr. Bonnie Slavych, School of Communication Sciences and Disorders

#### Readability and Quality of Internet Information on Dysphagia

Sarah Steiner  
Mentor: Dr. Richard Zraick, Dr. Bonnie Slavych, School of Communication Sciences and Disorders

## LIFE SCIENCES

### Undergraduate Presentations

#### Dietary Variation in Gut Microbiome among Vegans and Omnivores

Rachel Adamson  
Mentor: Dr. Taj Azarian, Burnett School of Biomedical Sciences, Dr. Swadeshmukul Santra, Chemistry

#### Sink or Swim: Comparing Emergent vs. Free-Floating Aquatic Plants and Their Ability to Remove Nutrients from Stormwater

Luciana Banquero, Lyndsey Chute, Maximillion Meader, May Lam  
Mentor: Ms. Jennifer Elliott, Amanda Lindsay, Biology

#### Mice Expressing a Human CMT Mutation Have Defects in Cerebellar Development

Isabel Carvalho  
Mentor: Dr. Stephen King, Burnett School of Biomedical Sciences

#### Genetic Diversity in Coastal and Inland Populations of Rana Spheenocephala Facing Sea-Level Rise

Rachel Gutner  
Mentor: Dr. Anna Savage, Biology

#### Assessing Vertebrate Abundance, Behavior, and Impact on A Living Shoreline Through Wildlife Camera Analysis

Jason Litwak, Julia Rifenberg  
Mentor: Dr. Linda Walters, Biology

#### Using Genetics in a Model Organism to Understand Polyamine Transport

Victoria Millington  
Mentor: Dr. Laurence Von Kalm, Biology

#### Spatial Analysis of Sea Turtle Nest Predation by Coyotes and Raccoons

Jennifer Rote  
Mentor: Dr. Erin Seney, Dr. Kristy Lewis, Dr. Eric Goolsby, Biology

**Tobacco Use Behaviors and Attitudes Toward the Smoke- and Vape-Free Campus Policy Among UCF Students: Analysis of 2020 Data**

Jeremy Sheiber  
Mentor: Dr. Julia Soulikova, Department of Population Health Sciences

**The Effect of Sugars on Gas Production in *Clostridioides difficile***

Rhianna Ventura  
Mentor: Dr. William Self, Burnett School of Biomedical Sciences

**Investigating Microplastic Exposure in Pea Crabs from the Indian River Lagoon**

Sophia Vermeulen  
Mentor: Dr. Linda Walters, Biology

**MATHEMATICS, OPTICS AND PHYSICAL SCIENCES**

**Graduate Presentations**

**Segmental Aggregation and Structural Propensities of Amyloid  $\beta$  Peptide**

Faisal Abedin  
Physics PhD

**Predicting Final Size of a Cholera Outbreak on a River Network**

Christopher Botelho  
Mathematics PhD

**Characterization and Catalytic Study of Valorized Downstream ZrS<sub>2</sub> CVD Waste**

Taylor Currie  
Chemistry PhD

**Observation of Multi-Fermionic States in Ti<sub>2</sub>Te<sub>2</sub>P**

Gyanendra Dhakal  
Physics PhD

**Traffic Flow Model and Its Implementation to Realistic Vehicle Interactions**

Oluwaseun Farotimi  
Mathematics PhD

**Raman Microspectroscopy of a Silicon Solar Cell**

Jeya Prakash Ganesan  
Materials Science and Engineering PhD

**Computation of Effective Properties of Multi-Laminated Composites**

David Guinovart Sanjuan  
Mathematics PhD

**Effect of Dilute Magnetism in a Topological Insulator**

Firoza Kabir  
Physics PhD

**Developing an Efficient Co<sub>3</sub>O<sub>4</sub>/Ni Catalyst for the Oxygen Evolution Reaction**

Zackary Parsons  
Physics PhD

**A Mathematical Model For COVID-19**

Hanna Reed  
Mathematics PhD

**Temperature-dependent Electronic Structure in a Higher-Order Topological Insulator Candidate EuIn<sub>2</sub>As<sub>2</sub>**

Sabin Regmi  
Physics PhD

**Decoding DNA Barcodes using Nanopore Translocation**

Swarnadeep Seth  
Physics PhD

**Introduction of Local Strain in Hexagonal Boron Nitride with Light-Assisted Atomic Force Microscopy**

Fernand Torres-Davila  
Physics PhD

**Spectral Broadening of One- and Two-Color Pulses from a Femtosecond Yb Laser Amplifier**

Chau Truong  
Physics PhD

**Mathematical Measurements for the Spread and Control of Infectious Diseases**

Poroshat Yazdanbakhshghahyazi  
Mathematics PhD

**The Adsorption of Oxygen on Bimetallic Pd<sub>3</sub>M<sub>2</sub> Clusters, M= Ag, Au, Co, Cu, Mn, Ni, Pt and Ru with and without Alumina Support by Density Functional Theory**

Nusaiba Zaman  
Physics PhD

**Undergraduate Presentations**

**Experimental Investigation of Planetary Accretion**

Yeniz Azconovieta  
Mentor: Dr. Joshua Colwell, Physics

**Design and Creation of a Miniaturized Gas Chromatograph for Field Research**

Rishi Basdeo  
Mentor: Dr. Michael Hampton, Chemistry

**Predicted Chemical Synthesis through Genetic Algorithms and Neural Networking**

Jonah Halili  
Mentor: Dr. Richard Blair, Physics

**Bimetallic Cluster Structure Optimization Search Aided by Machine Learning and Genetic Algorithm**

Carson Kelly  
Mentor: Dr. Abdelkader Kara, Physics

**How Common Is It for Exogenous Material to be Found on Asteroids?**

Daniela McCarty, Jennifer Nola, Alicia Allen  
Mentor: Dr. Humberto Campins, Physics

**Precise Measurement of Pressure-Temperature Phase Diagrams of Responsive Polymers in Aqueous Solution.**

Austin Schrader  
Mentor: Dr. Alfons Schulte, Physics, Dr. Lorraine Leon, Materials Science and Engineering

**SOCIAL SCIENCES**

**Undergraduate Presentations**

**Capturing Diagnostic Reasoning Using Multimodal Data From Digital Platforms to Enhance Medical Education and Training**

Nikki Anne Ballelos  
Mentor: Dr. Roger Azevedo, Learning Sciences and Educational Research

**The Girlhood Double-Standard: Girls' Perceptions of Gendered Classroom Expectations**

Juliet Cahow  
Mentor: Dr. Anne Bubriski, Women's and Gender Studies, Dr. Angela Vergara, Sociology

**The Politics of Kindness: Ideology, Empathy, and Entitlement**

Fernando Elizarraras, Gabrielle Scott, Roberto Martinez-Espinosa  
Mentor: Dr. Jason Chesnut, Psychology

**Physical Activity Moderates the Relationship Between Apoe4 Status and Working Memory: The Health and Retirement Study**

Dalia El-Shafie  
Mentor: Dr. Daniel Paulson, Dr. Nichole Lighthall, Psychology

**Examining Mental Health Symptoms Among English and Spanish-Speaking Populations**

Tirzah Fernandes  
Mentor: Dr. Kimberley Gryglewicz, School of Social Work

**A Look Into Virtual Reality Depth Perception: Comparing the HTC Vive and Oculus Rift for Immersion and Workload**

Jacey Koo  
Mentor: Dr. Crystal Maraj, School of Modeling, Simulation and Training

**Domestic Migrant Workers in Lebanon: Factors Influencing a Precarious Position**

Jasmine Masri  
Mentor: Dr. Güneş Murat Tezcür, Dr. Konstantin Ash, School of Politics, Security, and International Affairs

**Using Gramsci's Theory of Cultural Hegemony to Examine Obstructions to Energy Transition**

Nathaniel Miller  
Mentor: Dr. Peter Jacques, School of Politics, Security, and International Affairs

**Experiences of Breastfeeding Support in Healthcare Settings Among African American Mothers**

Hanna Nour  
Mentor: Dr. Shannon K. Carter, Sociology

**Informal Systems of Health Care: How Grassroots Organizations and Health Care Practitioners Perceive Farmworker Health**

Andrea Ocasio Cruz  
Mentor: Dr. Beatriz Reyes-Foster, Anthropology

**Relating the Big Five Personality Factors and the Method of Dog Obtainment in Dog Owners**

Julia Rifenberg  
Mentor: Dr. Valerie Sims, Psychology

**Understanding the Link Between Perception and Action: An Examination of Conflicting Theories**

Faith Sauber  
Mentor: Dr. Mary Jean Amon, Dr. Joseph T. Kider Jr., School of Modeling, Simulation and Training, Dr. Daniel S. Mcconnell, Psychology

## EDUCATION

### Graduate Presentations

#### Equity in Early Literacy Instruction

Monica Berns-Conner  
Education PhD, Exceptional Education Track

#### Enhancing Middle School Science Instruction for Students with Disabilities Using The Principles of Universal Design for Learning and Technology

Jacob Brewer  
Education PhD, Exceptional Education Track

#### Evaluation of an Online Module Enhanced with Universal Design for Learning for use in Special Education Teacher Preparation

Sacha Cartagena  
Education PhD, Exceptional Education Track

#### Predicting Students' Academic Performance with Machine Learning Techniques

Yuting Chen  
Education PhD, Methodology, Measurement and Analysis Track

#### The Perceptions of Clinical Instructors: How Virtual Learning Impacts the Clinical Education Experience of Physical Therapy Students on Their First Clinical Education Experience

Ashleigh-Jo Darby  
Physical Therapy DPT

#### The Effects of Distance Learning on Students from Lower Socioeconomic Statuses During State and National Emergencies

Miranda Eddy  
Applied Learning and Instruction MA

#### How Science Inquiry Outcomes Compare for Students with Learning Disabilities and Intellectual Disabilities: A Systematic Literature Review

Shalece Kohnke  
Education PhD, Exceptional Education Track

#### Intersectionality As a Lens to Explore How Black Male College Students' Science Identities and the Relevance of Their Science Learning Influence Their Decisions to Pursue Science Professions

Regina McCurdy  
Education PhD, Science Education Track

#### An Examination of Secondary English Language Arts and Social Studies Teachers' Perceptions and Implementation of Effective Literacy Instruction Practices in Their Content Area Classrooms: A Correlation Study

Melissa Mitchell  
Education PhD, Reading Education Track

#### Understanding Hearing Loss Through Digital Media

Jesslyn Parrish  
Texts and Technology PhD

#### Comparison of the NIH Toolbox-CB Assessment for Executive Function with a Novel Virtual Reality Executive Function Assessment

Christine Parsons  
Interdisciplinary Studies MS, Thesis Track

#### Does Methodology Matter? A Corpus Study of Authorial Risks in TESOL Dissertations

Michelle Verbitskaya  
Teaching English to Speakers of Other Languages, TESOL MA

### Undergraduate Presentations

#### The Impact of Unexpected Chaos on the Development of a Child with Cognitive, Social, and Emotional Delays: A Case Study

Sarah Brown  
Mentor: Dr. Sara Michael-Luna, Dr. Marisa Macy, School of Teacher Education

#### Exploring the Effects of COVID-19 on Central Florida Nonprofits: Assessment of Financial Consequences and Capacity Building Strategies During a Public Health Crisis

Tiffany Chinwuba  
Mentor: Dr. Maritza Concha, Dr. Daniel Seigler, School of Public Administration

#### Student Perceptions of Emergency Remote Teaching and Future Best Practices

Barbara Chiu  
Mentor: Dr. Nicole Lapeyrouse, Chemistry

#### Teacher Effectiveness in Underserved, Underfunded, and Under-Resourced Elementary Schools

Anais Placencia  
Mentor: Dr. Martha Lue Stewart, Dr. Joyce Nutta, Dr. Sherron Roberts, School of Teacher Education

#### Are All Relationships The Same? A Comparison of Intimate Partner Victimization within Heterosexual and Same-Sex Couples

Nicole Rosenzvaig  
Mentor: Dr. Erica Fissel, Criminal Justice

## ENGINEERING, COMPUTER SCIENCE, MODELING AND SIMULATION

### Undergraduate Presentations

#### Catalytic Performance of Porous Yb<sub>2</sub>O<sub>3</sub> Sesquioxide

Alina Aftab  
Mentor: Dr. Nina Orlovskaya, Mechanical and Aerospace Engineering, Dr. Richard Blair, Physics

#### High-Density Cobalt Single Site Catalyst on Ceria for Carbon Monoxide Oxidation and Carbon Dioxide Hydrogenation

Jennifer Akinpelu  
Mentor: Dr. Fudong Liu, Civil, Environmental, and Construction Engineering

#### Ignition Studies of LOx Methane Rocket Propulsion System

Marley Albright  
Mentor: Dr. Subith Vasu, Mechanical and Aerospace Engineering

#### Dynamic Automaton-Guided Reward Shaping for Monte Carlo Tree Search

Lior Barak, Brett Bissey  
Mentor: Dr. George Atia, Computer Science

#### Development of a Self-Sanitizing Mask to Combat the Spread of Infectious Disease

Matthew Crawford  
Mentor: Dr. Hwan Choi, Mechanical and Aerospace Engineering

#### Nitric Oxide Release for ECMO Devices in COVID-19 Patients

Austin Eason  
Mentor: Dr. Elizabeth Brisbois, Materials Science and Engineering

**Pinpointing Power Outages in Real-Time by Monitoring Severe Weather**

Robert Ferrand

Mentor: Dr. Adan E. Vela, Industrial Engineering and Management Systems

**Deriving Muscle Pathway of the Gastrocnemius Using Motion Capture and Ultrasound for Musculoskeletal Modeling**

Eric Irani

Mentor: Dr. Hwan Choi, Mechanical and Aerospace Engineering

**Relation Between Heart Sounds and Seismocardiographic Signals**

Daniella King, Anna Voyatzoglou

Mentor: Dr. Hansen Mansy, Mechanical and Aerospace Engineering

**Help Not Found: An Analysis of Precursors to Teen Suicide Attempts on Online Posts**

Maria Lopez

Mentor: Dr. Pamela J. Wisniewski, Computer Science

**Visible to UV Upconversion Nanomaterials Based Outer Coating to Combat Mold Growth**

Erik Marcelo

Mentor: Dr. Sudipta Seal, Materials Science and Engineering

**Infrared Spectroscopy of Defects in Structural Materials and its Effects on Energy Efficiency**

Garrett Mastantuono

Mentor: Dr. Necati Catbas, Civil, Environmental, and Construction Engineering

**Rapid Orbital Motion Emulator, ROME**

Hunter Quebedeaux, Ryan Ketzner, Celeste Ozimek-Newman

Mentor: Dr. Tarek Elgohary, Mechanical and Aerospace Engineering

**SafePlan: Co-designing for Suicide Prevention of At-Risk Youth**

Luke Shirley

Mentor: Dr. Pamela Wisniewski, Computer Science

## FINE ARTS AND HUMANITIES

**Undergraduate Presentations****Abolitionist Perspectives on Russian Serfdom During the Antebellum Era**

Mariana Kellis

Mentor: Dr. Barbara Gannon, History

**Visualizing a Pandemic: Mapping Flu Mortality in Florida, 1918-1919**

Andrew Kishuni

Mentor: Dr. Connie Lester, History

**Documenting the Undocumented: Understanding Identity and Displacement Through Undocumented U.S Latinx Experiences**

Thelma Quintanilla

Mentor: Dr. Sandra Sousa, Dr. Tyler Fisher, Modern Languages and Literatures

**Runic Mentions in Medieval Icelandic Sagas and Poems**

Jordan Williams

Mentor: Dr. Stephen Hopkins, Dr. Beth Young, English

**The Making of Mala'chite'**

Sebastian Wittig

Mentor: Ms. Jo Anne Adams, School of Visual Arts and Design

**The Roots of Homophobia in Modern Day Chinese Society**

Angela Yen

Mentor: Dr. Luis Martinez Fernandez, History

## LIFE SCIENCES

**Graduate Presentations****Invasive *Xenopus Tropicalis* Alter Disease Dynamics in Florida Amphibian Communities**

Matthew Atkinson

Biomedical Sciences PhD

**The Application of HiPSC-Cortical Neurons to Drug Evaluation in a Body-On-A-Chip System**

Kaveena Autar

Chemistry PhD

**Behavioral Division of Labor in Carpenter Ants *Camponotus Floridanus* is Associated with Plasticity in Clock-Controlled Gene Expression in Brains**

Biplabendu Das

Integrative and Conservation Biology PhD

**Multifaceted Function of MicroRNA-299-3p Fosters an Antitumor Environment Through Modulation of Androgen Receptor and VEGFA Signaling Pathways in Prostate Cancer Cells**

Kavya Ganapathy

Biomedical Sciences PhD

**Characterizing the Sialin Gene Family Expansion in Cephalopoda: Neurogenomic Insights Into Octopus Intelligence**

Taryn Gustafson

Integrative and Conservation Biology PhD, Integrative Biology Track

**Boring Sponges on Oyster Reefs: Distance From Boating Channels and Impact on Boring Damage**

Katherine Harris

Biology MS

**Assessing the Response of Mangrove Snapper, *Lutjanus griseus* Trophic Dynamics to Oyster Reef Restoration in the Indian River Lagoon**

Jennifer Loch

Integrative and Conservation Biology PhD, Conservation Biology Track

**Molecular Elements of Osmotic Taste Cell Response**

Angela Mohrman

Biomedical Sciences PhD

**Undergraduate Presentations****Identifying Population Structure of the Gulf Pipefish, *Syngnathus coveilli*, across Florida**

Gillian Baez Colon, Malia Boudreau

Mentor: Dr. Michelle Gaither, Biology

**DNA Biosensors: Selective Determination of SARS-CoV-2 Using a Universal DNA-Hairpin Probe**

Andrew Carlson

Mentor: Dr. Karin Chumbimuni-Torres, Chemistry

**The Effects of Forced Diurnal Activity on the Nocturnal Clouded Leopard: *Neofelis nebulosa***

Steven Elsaid

Mentor: Mr. Frank Logiudice, Biology

**Next Generation Protein Sequencing, NGPS for Determining Complete Sequences for Unknown Proteins and Antibodies**

Alexis Howard

Mentor: Dr. Kersten Schroeder, Burnett School of Biomedical Sciences

**Psychedelic Medicine and the Attenuation of Depressive Symptoms**

Andrew Laino

Mentor: Dr. Mohtashem Samsam, Advent Health University

### Linking Magnetoreception to CACNA1D Homolog Protein Insertions in Vertebrates

Annabelle Levin  
Mentor: Dr. Robert Fitak, Biology

### Stable Isotope Analysis of an Invasive Crab Species, *Charybdis hellerii*, in the Indian River Lagoon

Justin Meyer  
Mentor: Dr. Geoffrey Cook, Biology

### The Effects of Agriculture Herbicide Pendimethalin on the Immune Function of *Aedes aegypti* and its Ability to Vector Diseases

Kassady Perkinson  
Mentor: Dr. Kenneth Fedorka, Biology

### A Novel Ultrasound-Mediated Gene Delivery Nanosystem for Osteoporosis Treatment

Angela Shar  
Mentor: Dr. Mehdi Razavi, Burnett School of Biomedical Sciences

### Acid-Mediated Dissociation of *Haemophilus ducreyi* Cytolethal Distending Toxin Subunits Upon Cell Entry

Isabel Silva, Carla Reyes, Ashley Fragoso, Celine Sparkes, Gisselle Perez, Michelle Alvarez  
Mentor: Dr. Ken Teter, Burnett School of Biomedical Sciences

### Quantifying the Amount of Microplastics in UCF Wetlands

Sophia Stahl, Melanie Buziak, Steven DeGarmo,  
Mentor: Dr. Lisa Chambers, Biology

### Sulfide: The Result of Toxic Relationships in Freshwater Wetlands

David Yannick  
Mentor: Dr. Lisa Chambers, Biology

## MATHEMATICS, OPTICS, AND PHYSICAL SCIENCES

### Undergraduate Presentations

#### Sequence-Independent Assay for the Quantitation of HIV Viral Loads

Omar El Merhebi  
Mentor: Dr. Karin Chumbimuni-Torres, Dr. Yulia Gerasimova, Chemistry

#### Analysis of Co-Cultured Bacteria Using Split Deoxyribozyme Probes

Nicholas Mandel  
Mentor: Dr. Yulia Gerasimova, Chemistry

### Mechanistic Understanding of Ozone Assisted Combustion

Nath-Eddy Moody, Skylar Gootkin  
Mentor: Dr. Denisia Popolan-Vaida, Chemistry

### Microbe-Resistant Hybrid Membranes for Healing Burns and Wounds

Kasey Rigby, Jodie Chen  
Mentor: Dr. Kausik Mukhopadhyay, Dr. Kaitlyn E. Crawford, Dr. Elizabeth Brisbois, Materials Science and Engineering

### Myelination and Node of Ranvier Formation in a Human Motoneuron-Schwann Cell Serum-Free Coculture

Marnie Williams  
Mentor: Dr. James Hickman, Chemistry

## SOCIAL SCIENCES

### Graduate Presentations

#### The Green Morocco Plan: A Case Study of the Unintended Consequences of Sustainable Development

Sofiya Asedrem  
Political Science MA

#### Stratification on the Shelves: A Grounded Theory Analysis of Social Hierarchies in Everyday Consumption

Caroline Austin  
Sociology PhD

#### Moral To The Story: The Effects of Public Policy on Public Opinion in the Context of Abortion

Marin Deevers  
Political Science MA

#### Examination of the Role of Trait Mindfulness and Driving-Related Cognitive Failures in Aggressive Driving Behavior

John Duany  
Human Factors and Cognitive Psychology PhD

#### Black Fathers Having the "Talk" Conversation With Their Sons

Vernon Headley  
Sociology PhD

#### The Correlates of Regional Cooperation in a Dyadic Perspective

Ozgur Kayaalp  
Security Studies PhD

### Undergraduate Presentations

#### Can Creative Hobbies Improve Spatial Ability?

Victoria Alexander  
Mentor: Dr. Shannon Whitten, Dr. Karen Mottarella, Psychology

#### The Message or the Messenger: The Effects of Social Identity on Foreign Policy Decision Making

Joseph Aromando  
Mentor: Dr. Mark Schafer, School of Politics, Security, and International Affairs  
Dr. Matthew Chin, Psychology, Dr. Nathan Ilderton, School of Politics, Security, and International Affairs

#### In-Situ Space Resource Utilization: A Review of Economics, Geology, and Policy

Samuel Baker  
Mentor: Dr. Christopher Bennett, Physics

#### Past Suicidal Ideation Among Transgender and Nonbinary Young Adults Seeking Healthcare: An Analysis of Qualitative Data

Sabrina Beckwith  
Mentor: Dr. Lindsay Taliaferro, Population Health Studies, Dr. Shannon Carter, Sociology

#### Shift or Stagnation?: Changing Japanese Attitudes Toward Minorities

Aicha Camara  
Mentor: Dr. Myunghee Kim, School of Politics, Security, and International Affairs

#### Identity Consequences of Holding Collectivistic Values in an Individualistic Culture

Madison Cooper  
Mentor: Dr. Steven L. Berman, Dr. Daniel McConnell, Psychology

#### Does Age and Race Impact Risk Factors, Warning Signs, and Protective Factors for Those At-Risk of Suicide?

Michael Cosare  
Mentor: Dr. Kimberley Gryglewicz, School of Social Work

#### Structural Equation Analysis of the Three-Step Theory of Suicidality

Ana Garcia  
Mentor: Dr. Jeffrey Bedwell, Psychology

#### Meaning-Making in Narratives of COVID-19 Experiences: Relations to Identity Development

Maha Halabi  
Mentor: Dr. Widaad Zaman, Psychology

**Utilizing Fitts' Law to Examine Motor Imagery of Self, Other, and Objects**

Sean Hinkle

Mentor: Dr. Daniel McConnell, Psychology,  
Dr. Luis H. Favela, Philosophy

**The Role of Identity in Eating Problems**

Stephanie Kaine

Mentor: Dr. Steven L. Berman, Psychology

**Keepers of The Cape: Re-examining the Quarterman Archaeological Site, Cape Canaveral Air Force Station**

Audrey McGill, Megan McCauley

Mentor: Dr. Sandra Wheeler, Dr. Sarah S. Barber, Dr. Neil Duncan, Anthropology

**Proficiency in English: Spanish-English Differences in Language Processing**

Trucvy Nguyen, Daniela Velez

Mentor: Dr. Mustapha Mouloua, Psychology

**ADHD Children's Susceptibility to Interference in Memory Rehearsal**

Cameron Pothoven

Mentor: Dr. Mark Rapport, Psychology

**What are the Factors that Influence the Adoption of Data Analytics and Artificial Intelligence in Auditing?**

Grace Tsao

Mentor: Dr. Steven Hornik, Kenneth G. Dixon School of Accounting

**Prevalence Rates of Antisocial Behaviors in Generation Z**

Adrianna Valencia

Mentor: Dr. W. Steven Saunders, Psychology

## STUDENT SCHOLAR SYMPOSIUM AWARDS CEREMONY

Friday, April 2, 2021 | 2:00 - 3:30 p.m.

[\*Virtually via Zoom\*](#)

### WELCOME AND AWARDS

Mr. Kenneth W. Bradley

*Former UCF Trustee*

Dr. Alexander N. Cartwright

*President*

Dr. Elizabeth A. Klonoff

*Vice President for Research and Dean of the College of Graduate Studies*

Dr. Theodorea Regina Berry

*Vice Provost for the Division of Student Learning and Academic Success and Dean of the College of Undergraduate Studies*



