

# 2019 PRESIDENT'S SHOWCASE of UNDERGRADUATE RESEARCH EXCELLENCE

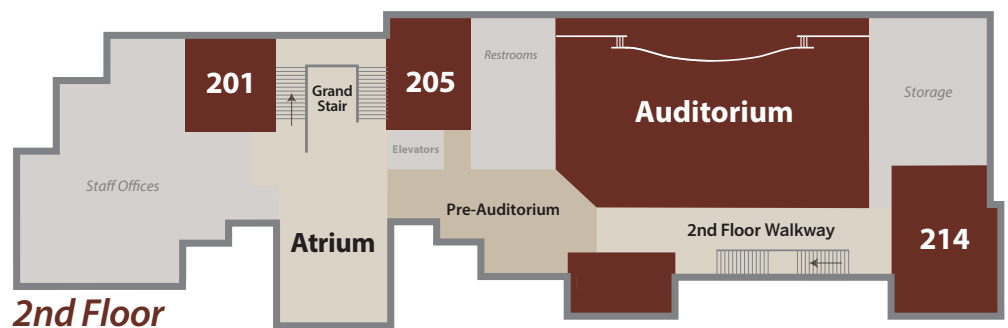
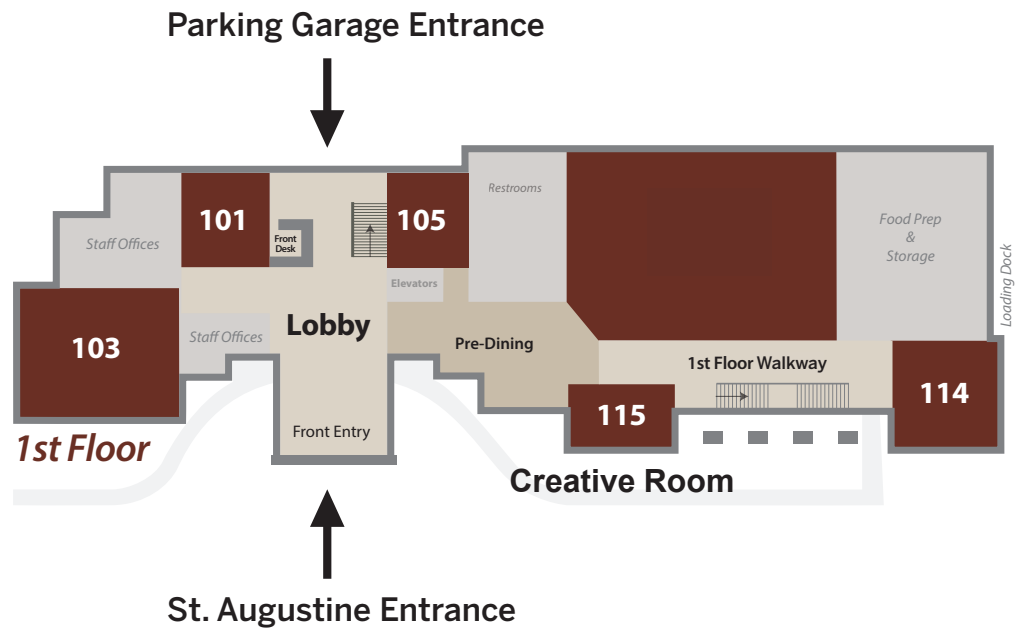
Augustus B. Turnbull III Florida State Conference Center



FLORIDA STATE UNIVERSITY  
DIVISION OF UNDERGRADUATE STUDIES  
CENTER FOR UNDERGRADUATE RESEARCH AND ACADEMIC ENGAGEMENT

Tuesday, October 1st, 2019  
5:30 — 7:30 pm

# BUILDING MAP



IDEA Grants award students with funding to conduct summer research and creative projects. These grants allow students to develop or evaluate new or existing ideas.

Special thanks to the FSU President's Office for their generous sponsorship of tonight's event.



Latika L. Young  
*Director*

Center for Undergraduate  
Research and Academic  
Engagement (CRE)



Alicia Batailles  
*Associate Director*



David Montez  
*Associate Director*



Morgan Hamilton  
*Assistant Director*

# WELCOME

## to the 2019 President's Showcase of Undergraduate Research Excellence!

We are delighted that you could join us tonight in celebrating outstanding undergraduate research. The students who are presenting their projects have enhanced their undergraduate experience by taking on directed research and creative activity under the supervision and mentorship of some of Florida State University's most distinguished faculty.

Sponsored by FSU's Office of the President and the Center for Undergraduate Research and Academic Engagement (CRE), this event serves as the culmination of the IDEA Grant, Tech Fellows, and iGEM summer awards, but the work these students present tonight does not end here. Many of the award recipients will continue their intellectual pursuits through honors theses, independent study projects, graduate research, and entrepreneurial and creative work, both here on our campus and beyond.

Please also join us tonight in recognizing Robert and Mary Frappier, Nancy Casper Hillis and Mark Hillis, David Ford, Steve Madden, Scott and Ina McNichols, Dr. Mark S. Wrighton, Fred and Debbie Tresca, the Garnet and Gold Scholar Society, and Phi Eta Sigma for their continued financial support of our summer research awards. Our sincerest gratitude is also offered to FSU President John Thrasher for his office's generous sponsorship of the event. Of course, we also wish to thank all the faculty members who have volunteered their time and expertise to mentor these student researchers, as these efforts would not be possible without them.

If you're attending this event as a student, we hope you'll be inspired to develop your own research or creative projects. Applications for next year's awards are due February 1, 2020 and are available at [cre.fsu.edu](http://cre.fsu.edu).

**5:30 pm**

## **Opening Remarks and Recognitions**

John Thrasher, President  
Florida State University

Evan Steinberg, President  
FSU Student Government Association

Dr. Karen Laughlin, Dean  
Undergraduate Studies

Latika L. Young, Director  
Center for Undergraduate Research and Academic  
Engagement (CRE)

**6:00-7:30 pm**

**Refreshments** (1st-floor walkway)

**6:10-7:30 pm**

**Poster Presentations** (Atrium and 2nd-floor walkway)

**Oral Presentations**

Presenters, titles, and rooms on next page

**Creative Presentations** (Auditorium and Creative Room)

**6:10-6:25 pm**

**Atalya Santos**, *Redeveloping Las Colonias*, documentary preview  
(Auditorium)

**Elisé Nguyen**, *"We Write The Ends To Our Stories": Launching a Sole  
Proprietorship That Aids the Fight Against Sexual Assault and Sex  
Trafficking at Florida State University*, artwork  
(Creative Room, 115)

**6:35-7:50 pm**

**Serna Corson**, *An Artistic Investigation: Longevity and Contentment in  
Italy*, artwork  
(Creative Room, 115)

**7:00-7:15 pm**

**Sabine Nemours**, *The Female Backbone of Immigrant Communities*,  
recitation of creative writing  
(Auditorium)



# ORAL PRESENTATION SCHEDULE

## 6:10-6:25 pm

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**Nia Harmon**, *The Overhauser Dynamic Nuclear Polarization Domino Effect*  
Room 103

**Sebastian Mejia**, *Decolonizing Land & Re-indigenizing Body: The Recuperation of Indigenous Identities in Brazil*  
Room 114

**Sabine Nemours**, *The Female Backbone of Immigrant Communities*  
Room 201

**Zoe Zirlin**, *The Big Lie(s): A Quantitative Analysis of the Visual Imagery Employed to Propagandize Nazism*  
Room 205

## 6:35-7:50 pm

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**Herbert Lopez, Paola Chavez, Ana De Leon, Austin Rodriguez**,  
*Environmentally Friendly Gas Filled Medium Voltage Cables*  
Room 103

**Elisé Nguyen**, *"We Write The Ends To Our Stories": Launching a Sole Proprietorship That Aids the Fight Against Sexual Assault and Sex Trafficking at Florida State University*  
Room 114

**Chase Boyer**, *Representation of Hunters in Japanese Museums: Celebrated and Hidden*  
Room 201

**Celina Meyer**, *The Role of ACEs and Household Stability on Emotional Regulation in Adulthood*  
Room 205

## 7:00-7:15 pm

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**iGEM**, *FLOEMA: The Antimicrobial Peptide Cocktail Designed to Save Florida's Citrus*  
Room 103

**Atalya Santos**, *Redeveloping Las Colonias*  
Room 114

**Jack Keen**, *Excitation Models of Interval Counting Neurons*  
Room 205

**Abstracts for the oral and poster presentations, as well as related imagery and video links for the creative presentations, can be accessed online using the QR code or this URL:**



**[bit.ly/19prezshow](https://bit.ly/19prezshow)**



## **THE FSU iGEM TEAM**

Supervising Professor: Cesar Rodriguez, M.D.

### ***FLOEMA: The Antimicrobial Peptide Cocktail Designed to Save Florida's Citrus***

The FSU iGEM Team is the University's representative in the annual International Genetically Engineered Machines Competition (iGEM), the premier student competition in synthetic biology. A successful iGEM team requires a group of students with diverse skills and knowledge backgrounds. In addition, award-winning iGEM teams are not just great in the lab, but also know how to conduct qualitative and desk research in order to gain a 360-degree view of their problem area. This year's team chose to examine the problem of citrus greening (Huanglongbing disease) in the state of Florida. Greening has devastated citrus industries from Florida and California to parts of Asia and Africa due to the shorter lifespans of crops, premature fruit drop, and a reduction in fruit quality. The team's goal is to engineer a cell-free system to secrete foreign antimicrobial peptides (AMPs), a potent alternative to traditional antibiotics, as a solution for the immediate causal bacterial agent of citrus greening.

The 2019 team is led by Roderick Meyer and Associate Team Leader Jacob Gottlieb. The Design team is made up of Juan Martin Portilla (Team Lead), Conner Quinlan, Shams Dhanani, and Alyssa Klein. The Create team included Hannah Pascoe (Team Lead), Mezindia Blessing Nkembo, and Nicholas Vazquez. The Human Practices team, who examine the physical and ethical implications of the team's proposed intervention, are Jessie Griesheimer (Team Lead), Derica Parathundil, and Kathleen McClellan, with Jamale Youmas and Cameron Conroy acting as fundraising and electronic communication leads, respectively.



David B. Ford Undergraduate Research and Creativity Award

### CHASE BOYER

Supervising Professor: Dr. Kristina Buhrman

#### *Representation of Hunters in Japanese Museums: Celebrated and Hidden*

Chase Boyer is a senior earning dual degrees in Asian Studies and Japanese Language and Culture. From May to August he traveled through Japan conducting research in various museums across the islands of Honshu and Hokkaido. He is currently working on an honors thesis under the mentorship of Dr. Kristina Buhrman of the Department of Religion. Upon graduation Chase seeks to continue research in the fields of Japanese culture and minority studies.



Steve Madden Undergraduate Research Award

### PAOLA CHAVEZ

Supervising Professor: Dr. Peter Cheetham

#### *Environmentally Friendly Gas Filled Medium Voltage Cables*

Paola Chavez, a Honduran student, is starting her senior year of Chemical & Materials Engineering and is currently working in research about advanced polymers and catalysts under Dr. Ho Yong Chung at the Department of Chemistry. Upon graduation, Paola would like work in a petroleum company (oil refinery) making sure that the correct chemicals are used to get crude oil into a usable form and ensure that the petroleum and oil materials go directly into gas tanks.



Scott & Ina McNichols Undergraduate Research Award

### NIA HARMON

Supervising Professor: Dr. Thierry Dubroca

#### *The Overhauser Dynamic Nuclear Polarization Domino Effect*

Nia Harmon is in her final year of Chemistry and is currently working on her honors thesis. Since 2018, she has been conducting research under Dr. Thierry Dubroca at the Florida State University National High Magnetic Field Laboratory. Upon graduation, Nia will pursue a Ph.D. in Materials Chemistry or Physical Chemistry. In her free time, Nia enjoys mentoring the next generation of STEM innovators as a Freshman Interest Groups (FIG) Leader.



Scott & Ina McNichols Undergraduate Research Award

### JACK KEEN

Professor: Dr. Alan Lemmon and Dr. Richard Bertram

#### *Excitation Models of Interval Counting Neurons*

Jack Fox Maria Keen, a Maryland-Florida hybrid, is in their final year of completing a double major in Computational Science and Biomathematics. Jack has been working in the Center for Anchored Phylogenetics with Dr. Lemmon and has been attending the Biomathematics Journal Club with Dr. Bertra. Their career goal is to use neuron models for applications in computational psychiatry as a means for understanding and alleviating mental illness.





Steve Madden Undergraduate Research Award

## ANA VICTORIA DE LEON

Supervising Professor: Dr. Peter Cheetham

### *Environmentally Friendly Gas Filled Medium Voltage Cables*

Ana De Leon is a Panamanian student in her final year of Industrial Engineering. She transferred from the Panama City, Panama FSU campus to complete her studies and gain research experience. Currently, Ana is doing research at the Center for Advanced Power Systems and hopes to earn a Ph.D in Industrial Engineering. Her goals include learning more about material properties and improving manufacturing processes of electric cables and additive manufacturing.



Steve Madden Undergraduate Research Award

## HERBERT LOPEZ

Supervising Professor: Dr. Peter Cheetham

### *Environmentally Friendly Gas Filled Medium Voltage Cables*

Herbert Lopez, a Honduran student, is in his senior year of Electrical Engineering. He wants to focus in the Power Systems area and is currently volunteering at the Center for Advanced Power Systems under Dr. Peter Cheetham. Hebert would like to continue research in renewable energy and the future of the power grid while obtaining his Masters in Electrical Engineering. His career goal is to work for an important electrical company.



Scott & Ina McNichols Undergraduate Research Award

## SEBASTIAN MEJÍA

Supervising Professor: Dr. Anasa Hicks

### *Decolonizing Land & Re-indigenizing Body: The Recuperation of Indigenous identities in Brazil*

Sebastian Mejía is a first-generation senior who is pursuing a dual-degree in Latin American/Caribbean Studies (Honors) and International Affairs with a minor in Portuguese. Under the guidance of Dr. Anasa Hicks, his work examines how communities of Indigenous descent in Brazil resist imposed labels and demand recognition as Indigenous. He serves at the Frenchtown-Urban-Farm that offers organic produce to the surrounding community.



Garnet and Gold Scholar Society IDEA Grant

## CELINA MEYER

Supervising Professor: Dr. Julia Sheffler

### *The Role of ACEs and Household Stability on Emotional Regulation in Adulthood*

Celina Meyer is a junior pursuing two Bachelor of Science degrees in Statistics and Psychology. Since the beginning of her sophomore year, she has been conducting research under Dr. Julia Sheffler in FSU's Center for Behavioral Translational Science. After graduation, Celina will pursue a post-baccalaureate research position before applying to Ph.D. programs in Clinical Psychology.



Nancy Casper Hillis and Mark Hillis Undergraduate Research Award



Steve Madden Undergraduate Research Award



### **SABINE H. NEMOURS**

Supervising Professor: Dr. Maxine Montgomery

#### ***The Female Backbone of Immigrant Communities***

Sabine Nemours is a senior double-majoring in English Literature & Sociology. As a Haitian immigrant, she spent her formative years navigating the cultural identities of her motherland and that of her Florida home in Miami. A prospective novelist, Sabine incorporates those elements of identity and nationality into her work, and has studied literature and literary research under professor Maxine Montgomery at the Department of English. Upon graduation, Sabine would like to continue social research on American subcultures and immigrant community structures.

### **ELISÉ J. NGUYEN**

Supervising Professor: Stephanie James, MFA

#### ***"We Write the Ends To Our Stories": Launching a Sole Proprietorship that Aids the Fight Against Sexual Assault and Sex Trafficking at Florida State University***

Elisé Nguyen, a first-generation Vietnamese student, is an Entrepreneurship major. Upon graduation, Elisé will pursue an MFA in Fashion Architecture. Nguyen plans to take her business to an international level and help victims of sex trafficking in developing countries. She hopes to use her talent and drive to create humanitarian art and fashion that produces lasting social changes.

### **AUSTIN R. RODRIGUEZ**

Supervising Professor: Dr. Peter Cheetham

#### ***Environmentally Friendly Gas Filled Medium Voltage Cables***

Austin Rodriguez, born in Venezuela, is a senior student of Chemical Engineering. He transferred to Tallahassee from the FSU campus in the Republic of Panama. He has been conducting research under Dr. Peter Cheetham and Dr. Sastry Pamidi in the Center for Advanced Power Systems (CAPS) located in Innovation Park in Tallahassee. His career goal is to use his knowledge of Chemical Engineering, programming, and data analysis to benefit his community and the planet.

### **ATALYA SANTOS**

Supervising Professor: Dr. Turner De-Vera

#### ***Redeveloping Las Colonias***

Atalya Santos is in her final year of Digital Media Production and is currently working on her honors thesis. She has conducted research supervised by Dr. Turner De Vera and Dr. Opel since her sophomore year about the colonias in the Rio Grande Valley. Her thesis will culminate in a short documentary about the successes of self-help and community organizing in Hidalgo county, where the highest concentration of *colonias* exists.





Scott & Ina McNichols Undergraduate Research Award

## ZOE LEE ZIRLIN

Supervising Professor: Dr. Patrick Merle

### *The Big Lie(s): A Quantitative Analysis of the Visual Imagery Employed to Propagandize Nazism*

Zoe Zirlin, a native Chicagoan, is in her final year of Advertising in the College of Communication and Information, and is also pursuing a minor in English and Certificate in SAS Programming and Data Analysis. Her honors thesis is a content-analysis of Nazi propaganda posters produced during the years leading up to World War II. She is a member of the Sigma Delta Tau Panhellenic Sorority. Zoe is interested in entering the fields of consumer and marketing research or data science.

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## POSTER PRESENTERS



Scott & Ina McNichols Undergraduate Research Award

## AQUESHA ADDISON

Supervising Professor: Dr. Timothy Megraw

### *The Role of Ninein in the Formation of Non-centrosomal MTOCs in Endothelial Cells*

Aquesha Addison is in her final year of Biological Sciences and has been conducting research under Dr. Timothy Megraw at the College of Medicine since her freshman year. Upon graduation, Aquesha would like to continue research in Biomedical and Clinical Sciences while pursuing both a M.S. in Biomedical Sciences and an M.D. Her career goal is to bridge the gap between medical research findings and patient care in a major hospital, such as St. Jude's.

# POSTER PRESENTERS



## **SERENA VIOLA CORSON**

Supervising Professor: Carrie Ann Baade, MFA

### *An Artistic Investigation: Longevity and Contentment in Italy*

Serena V. Corson is currently in her final semester of the Bachelor of Fine Arts program. This summer she explored Italian culture in six different major Italian cities under her mentor Carrie Ann Baade. She created an art book, multiple writings, and a photographic series from her findings and experience. After graduation, she would like to continue traveling and eventually go to graduate school in Europe to obtain her Master's degree in Art.



## **JESSICA DIXON**

Supervising Professor: Dr. Aaron Wilber

### *Lost and Found: Exploring the Relationship Between Getting Lost and Pre-Alzheimer's Disease Brain Changes*

Jessica Dixon is a sophomore Neuroscience and Statistics double major from Melbourne Beach, Florida and a FSU 2018 Presidential Scholar. She became a research assistant in Dr. Aaron Wilber's neuroscience lab where she conducts research into neuron activation and navigation. Jessica is secretary of the FSU chapter of the Neuroscience Honors Society. Jessica plans to pursue a PhD in Translational Neuroscience to research neurological conditions.

Scott & Ina McNichols Undergraduate Research Award



## **ROBERT FOURQUIREAN**

Supervising Professor: Dr. Thomas E. Miller

### *Greener Gardening: Turning Every Pot into Plant Paradise*

Robert Fourqurean, a Tallahassee resident, is in his final year of Biological Sciences and is currently interning in a representative's office at the Florida State Capitol. He has been conducting research under the advisement of Dr. Thomas E. Miller at Florida State's Mission Road Research Facility. Upon graduation, Robert plans to further his education and involvement in public affairs by obtaining a Masters in American Politics. His career goal is to ensure the incorporation of cutting-edge science into public management and legislation.

Scott & Ina McNichols Undergraduate Research Award



## **ARRIA HAULDIN**

Supervising Professor: Dr. Elif Bulut

### *Mẹ, Myself, and I: Multifarious Motherhood in Vietnam*

Arria Hauldin, a South Florida native, is in her final year of Anthropology and is currently working on her Global Scholars Capstone. She has been conducting research with Dr. Elif Bulut from the Center of Demography and Population Health. Upon graduation, Arria hopes to join the Peace Corps before pursuing graduate degrees in Public Health and Anthropology, where she hopes to continue conducting research within the Social Sciences. Her career goal is to become a Socio-Cultural/Medical Anthropology professor and researcher.

Fred and Debbie Tresca Global Scholars IDEA Grant





Scott & Ina McNichols Undergraduate Research Award

## EVA JOHNSON

Professor: Stephanie Sickler, MFA

### *Bonsai and the Art of Display*

Eva Johnson is a senior honors student pursuing a bachelor's degree in Interior Design. She balances demanding studio coursework with a job as a Card Center Representative at the FSUCard Center and her volunteer position as an official for the Tallahassee RollerGirls. Eva is submitting applications to international cultural exchange programs for the year following graduation, and she looks forward to later applying her education and IDEA Grant experience to a career in furniture design.



Scott & Ina McNichols Undergraduate Research Award

## HANNA JUSTUS

Supervising Professor: Dr. Veronica Fleury

### *Determining the Value of Virtual Reality Technology in Autism Intervention*

Hannah Justus is a sophomore Psychology and English major from Naples, Florida, and began working with Dr. Veronica Fleury in the beginning of her freshman year through the UROP program. Hannah is also a member of the Presidential Scholars Class of 2022 and the University Honors Program. Upon graduation, Hannah hopes to attend law school and pursue a career in public interest and human rights law.



## ALEXA KELLENBERGER

Supervising Professor: Dr. Elizabeth Coggeshall

### *Moral Inheritance: Hereditary's Ancestry in Dante*

Alexa Kellenberger is in her second year of English Literature and plans to pursue a double major in Italian Language and Russian Language. As a student in UROP, Alexa has been conducting research under Dr. Elizabeth Coggeshall of the Department of Modern Languages and *Linguistics on Dante Today*, a site that archives references to the work of Dante Alighieri in contemporary culture. Alexa is also passionate about film and literary studies, with a focus on the horror genre.



Scott & Ina McNichols Undergraduate Research Award

## ELIAS LARRALDE

Supervising Professor: Dr. Robinson Herrera

### *Melodies of Mirages: Exoticism, Folklore, and "preforming" Santeria*

Elias Larralde, a Delray Beach native, is a rising senior majoring in History with a minor in Museum Studies. He was a part of the UROP program studying under Dr. Jennifer Koslow and is now a current UROP leader for the 2019-2020. He is planning to start his honors thesis based on his summer research in Spring 2020 under Dr. Robinson Herrera. After graduation, Elias plans to get a Masters in Latin American Studies, focusing on Ethnomusicology and History, then obtaining a PhD in Ethnomusicology.



Dr. Jack Saltiel Undergraduate Research Award

**MEGHAN LEGER**

Supervising Professor: Dr. Lea Neinhaus

***Green-to-blue Photon Upconversion Sensitized by CdSe Nanoplatelets***

Meghan Leger is entering her junior year studying both Chemical Engineering and Chemistry. She has been working under Dr. Lea Nienhaus's supervision conducting research on the synthesis and characterization of semiconductor nanocrystals. She is a Learning Assistant for General Chemistry and the Department Chair of FSU's Alpha Chi Sigma Chemistry Fraternity.



Phi Eta Sigma Undergraduate Research Award

**SABRINA MATO**

Supervising Professor: Dr. Sean Ehrlich

***Splintering Off: Catalonia's Search for Sovereignty***

Sabrina, originally from Cuba, is completing her International Affairs degree this year. A participant in the CARE Program, Sabrina interned abroad in India as a Gilman Fellow through Global Scholars. She lobbied for PACE at the capitol and worked with the Coleman law firm and Legal Services. She also completed the Weidner Law Program and continued to study abroad in London. As a Social Science Scholar and Lex Fellow, she has researched the impact of the Catalanian Independence Movement in Spain.



**JACK MILLS**

Supervising Professor: Dr. Brendan Lantz

***Oppression of Representing the Oppressor: An Examination of LGBTQ+ Elected Official Behavior***

Jack Mills, a senior, is finalizing both his Criminology and Political Science degrees and is a hopeful candidate for the M.S. Criminology program. His most recent research opportunity was to survey registered voters of Florida to understand the actions of LGBTQ+ elected officials and define political homophobia across the state. Jack's career goals are to conduct research on political and criminological affairs.



Phi Eta Sigma Undergraduate Research Award

**ASHLEY MOSES**

Supervising Professor: Dr. Elizabeth Hammock

***Behavioral Analysis of Stimulus Mice in a Two-Choice Social Preference Test***

Ashley Moses is a senior from Orlando with majors in Biology and Psychology, who recently successfully defended her honors thesis. She has worked with Dr. Elizabeth Hammock for two years and will continue her work in the lab with a focus on behavioral neuroscience. Ashley plans to pursue a Ph.D. in Behavioral Neuroscience with a focus on the neurological mechanisms that underlie behavior and has hopes of one day becoming a professor.





Phi Eta Sigma Undergraduate Research Award

## ELI MYRON

Supervising Professor: Dr. Sandra Brooke

### *Understanding the Role of Underwater Architecture in a Coastal Ecosystem: How Do the Physical Characteristics of Man-made Structures Influence Benthic Communities?*

Eli Myron is a senior dual degree student in Biological Science and Environment & Society. In Summer 2017, he interned at the Whale Shark and Oceanic Research Center in Honduras. He is working with coral ecologist Dr. Sandra Brooke to address coral restoration. Following graduation he will pursue a Ph.D. on coral restoration and to strengthen community engagement on the subject.



Scott & Ina McNichols Undergraduate Research Award

## GRAHAM O'DONNELL

Supervising Professor: Dr. Jon Ahlquist

### *Rain, Rain, Go Away*

Graham O'Donnell, from Tallahassee, is in his second year at FSU and is a junior pursuing a double major in Physics and Applied Mathematics. He additionally intends to either minor or major in Meteorology. He began research with Dr. Jon Ahlquist in the Meteorology department during the fall of last year through the UROP program. After graduating from FSU, he intends to go to graduate school for Physics, but has not yet planned beyond that.



Fred and Debbie Tresca Global Scholars IDEA Grant

## VANESSA ODURO

Supervising Professor: Stacey Rutledge

### *Multilingualism and Education: A Closer Look at the Language Policy in Ghanaian Schools*

Vanessa Oduro is a Ghanaian native living in West Palm Beach FL. She is a senior majoring in Psychology with a minor in Hospitality Management. She became involved in undergraduate research through the Keel Lab Eating Behaviors Research Clinic. Through UROP, Vanessa conducted research with Dr. Stacey Rutledge and Dr. Vanessa Dennen. Vanessa intends to pursue a Ph.D. in Industrial-Organizational Psychology.



Scott & Ina McNichols Undergraduate Research Award

## KEARA SEBOLD

Supervising Professor: Dr. Kurt Piehler

### *Female Higher Education in the 1920's: A Comparative Study of the Florida State College for Women and Radcliffe College*

Keara Sebold is a History major in her final semester at FSU and is currently working on her honors thesis. She has been conducting research under the supervision of Dr. Kurt Piehler in the History Department since the beginning of the year and plans to defend her thesis this fall. Upon graduation, Keara plans to continue her research on American society in the early 20th century. She hopes to work as a public historian or in academia.





Robert and Mary Frappier Undergraduate Research Award

**JOSHUA SHULTZ**

Supervising Professor: Dr. Ming Ye

***Assessing Historical Changes in Floating Vegetation in Lakes Jackson and Iamonia with NDVI and its Relation to Aquatic Nitrate Concentrations***

Joshua Shultz is a junior in the Earth Oceanic and Atmospheric Science department. Through UROP, he conducted research under Drs. Ming Ye and Steve Kish. This summer he has used knowledge from his UROP experience to continue researching under Dr. Ye and Dr. Kish. Upon graduation, Joshua would like to pursue his research in protecting Florida's water resources while continuing his education in graduate school.



Garnet and Gold Scholar Society IDEA Grant

**SERGIO CARLOS TAMEZ**

Supervising Professor: Dr. Svetla Slaveva-Griffin

***Omina Imperii in the Age of Iconoclasm: Inside the Struggle for the Soul of an Empire***

Sergio Carlos Tamez, from Chicago, is a senior majoring in History and Classics. He seeks to highlight continuities from Ancient Rome and Greece in the medieval Byzantine context. Sergio has worked on this project with the support of Dr. Svetla Slaveva-Griffin at the Department of Classics. He hopes to continue his study of the Byzantine World and the Eastern Mediterranean at the graduate level, with the hope of attaining his PhD.



Fred and Debbie Tresca Global Scholars IDEA Grant

**ANDREW TAYLOR**

Supervising Professor: Dr. Elif Bulut

***Mẹ, Myself, and I: Multifarious Motherhood in Vietnam***

Andrew Taylor, a Tallahassee resident, is in their final year of Sociology. For almost a year, they have been conducting research under Dr. Elif Bulut at the College of Sociology. Upon graduation, Andrew would like to continue research in gender studies while obtaining a Masters degree. Their career goal is to conduct research within the Social Sciences.



**NATALIA VALDERRAMA**

Supervising Professor: Dr. Linda Rinaman

***The Role of GLP-1 Producing Neurons in Regulating Anxiety-like Behaviors in Transgenic Mice***

Natalia Valderrama is in her third year at Florida State University and is currently on track to majoring in Cell and Molecular Neuroscience. Her keen interest in neural pathways and their role within the nervous system was sparked after her induction into the Undergraduate Research Opportunity Program. She has had the pleasure of conducting research under Dr. Linda Rinaman and being mentored by Dr. Marie Holt at the Psychology Department. She intends to pursue a medical degree upon graduation.



### SHANAIA ALINCY

#### *Fear: A Leading Cause of Failure for New Businesses*

Shania is a rising junior in Hospitality Management and Tourism. Over the summer, she completed an internship with the business incubator Groundswell located in Melbourne. During that time, Shania completed a qualitative research project examining the role of fear as a cause for the failure of new businesses. Outside of the classroom, Shania is a member of Zeta Phi Beta sorority and is a certified nursing assistant.



### AYANNA CHUKES

#### *The Potential Impact of Establishing a Social Media Presence and Mobile Applications Upon Store Front SME Companies*

Ayanna Chukes is a senior majoring in Information Technology. She spent the summer interning with Domi Station in Tallahassee, a business incubator for entrepreneurial ventures and products and conducting research on the impact of incorporating mobile applications and social media presence for small to medium-sized business in the North Florida entrepreneurial ecosystem. Upon graduation, Ayanna would like to continue her education in IT.



### LAVONDA DEAN

#### *A Qualitative Look at the Impact of Orlando's Immigrant Entrepreneurial Community*

Lavonda S. Dean was born in The Bahamas and raised in Miami. She is now a senior majoring in Information, Communication, and Technology. This past summer, Lavonda interned with StarterStudio in Orlando, a business accelerator for tech-based startups. In addition to her internship duties, Lavonda conducted a research study examining what potential impact Orlando's entrepreneurial immigrant community might be having on its economy.



### ASHLEY ROSADO

#### *Impostor Syndrome and Machismo: A Case Study on Latinas Navigating the Tech Startup Industry*

Ash Rosado, a Kissimmee resident, is a junior majoring in Social Entrepreneurship and Creative Writing. She has spent the summer interning with 500 Startups in Miami, a global venture capital firm and accelerator for tech-based startups and conducting research on how Latinas experience imposter syndrome in the tech startup industry. Upon graduation, Ash would like to pursue a career where she uses technology and innovation to create positive social impact.



### ASHLEY TAYLOR

#### *Leadership Styles among Women Business Leaders and Entrepreneurs*

Ashley Taylor, a Tallahassee local, is in her final year of majoring in Information, Communication, and Technology. During the summer, Ashley interned with Tampa Bay Wave, an accelerator for tech-based startups. While in Tampa, she conducted research analyzing leadership styles of women leaders and entrepreneurs in tech. Upon graduation, Ashley will continue to work with women leaders and entrepreneurs in efforts to share this information with her community.



## We are so grateful for the generous donors who have sponsored the following IDEA Grants:

### ***Robert and Mary Frappier Undergraduate Research Award:***

Robert and Mary Frappier are strong supporters of FSU and undergraduate research. This award is for a student focusing on the environment and sustainability or housing.

### ***Scott and Ina McNichols Undergraduate Research Award:***

Scott and Ina McNichols Undergraduate Research Award--Scott and Ina McNichols are both FSU alumni who have a deep desire to support research which provides an enriching experience for the student engaged in research who wants to better the community around them. This award is open to all majors.

### ***Nancy Casper Hillis and Mark Hillis Undergraduate Research Award:***

Mark and Nan Hillis are vibrant FSU supporters who want to support undergraduate research that embodies the Unconquered Seminole spirit. This award is open to all majors.

### ***Jack Saltiel Undergraduate Research Award:***

Dr. Jack Saltiel is a long time Chemistry professor at FSU whose teaching and research has made an impact on many of his students during his more than 50 years at FSU. One such student is Dr. Mark Wrighton, who established this award in Dr. Saltiel's honor. This award is for a student majoring in Chemistry.

### ***Steve Madden Undergraduate Research Award:***

Steve is an FSU graduate in Engineering who is supportive of students finding their passion in STEM fields. His award is open to students in any STEM major. (Must be a full-time FSU student in spring)

### ***David B. Ford Undergraduate Research and Creative Activity Award:***

Named for David B. Ford of New York, New York who is currently the President of DBF Associates, a private investment firm, and Senior Advisor to Gatemore Capital Management, LLC, a private wealth and institutional investment management firm. This award is open to all majors.

### ***Phi Eta Sigma Undergraduate Research Award:***

The Phi Eta Sigma Freshman Honor Society established an undergraduate research award to support the research endeavors of students who are members of the honor society. This award is for Phi Eta Sigma members in good standing. (Must be a full-time FSU student in spring)

### ***Fred and Debbie Tresca Global Scholars IDEA Grant:***

Fred and Debbie are both FSU graduates whose international experience in the former Soviet Union shaped their world view and solidified their desire to support student travel to developing countries through the Global Scholars Program. This award is to support research projects of students engaged in the Global Scholars Program.

### ***Garnet and Gold Scholar Society IDEA Grant:***

With generous funding from the Garnet and Gold Scholar Society, this award is open to students from any major who have already submitted their Garnet and Gold Scholar Society Intent to Participate with research selected as one of their three engagement areas.











Honors, Scholars, and Fellows House  
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