

# 2020 VIRTUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Various Zoom sessions from April 6th at 3:35 pm to April 9th at 7:45 pm  
Visit the week-long event at [bit.ly/URSVIRTUAL](https://bit.ly/URSVIRTUAL).

You are invited to join us throughout the week of April 6 as current undergraduate researchers present their posters virtually for the **2020 Undergraduate Research Symposium!** Through the Facebook event page, we will share the time for each presentation session, Zoom event link, and the general area/topic of the presentations so you can watch and support your friends and peers.

Many of our presenters participate in the Undergraduate Research Opportunity Program (UROP), Garnet and Gold Scholar Society, Honors in the Major, and students wanting presentation experience. We will be sharing the Nourishing Creativity performative projects as videos shared in each session.

## Program of poster sharing events for Monday, April 6th

### Monday, April 6th sessions

- 3:30 - 4:35 pm, 1 poster sharing event
- 5:15 - 6:15 pm, 3 poster sharing events
- 6:45 - 7:45 pm, 4 poster sharing events

### Tuesday, April 7th sessions

- 3:30 - 4:35 pm, 1 poster sharing event
- 5:15 - 6:15 pm, 4 poster sharing events
- 6:45 - 7:45 pm, 3 poster sharing events

### Wednesday, April 8th sessions

- 4:00 - 5:00 pm, 1 poster sharing event
- 5:15 - 6:15 pm, 3 poster sharing events
- 6:45 - 7:45 pm, 2 poster sharing events

### Thursday, April 9th sessions

- 10:30 - 11:45 am, 1 poster sharing event
- 12:00 - 1:15 pm, Nourishing Creativity presentations
- 1:30 - 2:45 pm, 1 poster sharing event
- 3:00 - 4:15 pm, 1 poster sharing event
- 3:35 - 4:25 pm, 1 poster sharing event
- 5:15 - 6:15 pm, 4 poster sharing events
- 6:45 - 7:45 pm, 2 poster sharing events

# Monday, April 6th

3:35 - 4:35 pm

Leaders Morgan Gibson & Payton Howarth, Psychology & Criminology

<https://fsu.zoom.us/j/163484814>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Risk of cognitive decline in caregivers of dementia: A PRISMA Systematic Review**

Ana Villa

Research Mentor: Dr. Martina Luchetti

## **Dendrochronological Analysis of Longleaf Pines in Florida** **Andrew Clement**

Research Mentor: Ms. Nicole Zampieri

## **Deadly Mass Shootings 1976-2018: Trends, Features, and Media Reporting**

Angie Cole, Antonia La Tosa, and Skylar Slawiak

Research Mentor: Dr. Jillian Turanovic

## **Training Volunteers to Foster Language and Literacy Skills in Early Head Start Facilities**

Genevieve Shivers & Lillian Stevens

Research Mentor: Ms. Leesa Marante

## **The Exploration of Consciousness and Strange Loops Through the Lens of Dance**

Jakob Tweedel

Research Mentor: Ms. Holly Stone

## **Identity, Race, and Gender in Video Games**

Jermann Evans

Research Mentor: Mr. Bertan Buyukozturk

**The Development and Evaluation of an Online Intervention for Hostility in Individuals at Risk for Alcohol Use Disorder**

Kate Kulyk

Research Mentor: Ms. Brittany Mathes

**Musical Tones and Learning Chinese**

Minh-Trang Nguyen

Research Mentor: Dr. Zhiying Qian

**Symbols of White Supremacy: The Relationship between Monuments to the Confederacy and Hate Crimes**

Sarai Palacio

Research Mentor: Dr. Brendan Lantz

# Monday, April 6th

5:15 - 6:15 pm

Leaders Aquesha Addison & Valerie Ely, Biology

<https://fsu.zoom.us/j/576789290>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Health Benefits of Dried Plum Consumption**

Abigail Serda

Research Mentor: Ms. Elizabeth Foley

## **Measuring Microplastics: an Effort Toward Standardizing Analyses and Reporting.**

Adrian Luksza

Research Mentor: Dr. Matthew Ware

## **Investigating Math Interpretation Bias and it's Relation with Math Anxiety**

Amy Casanova

Research Mentor: Dr. Colleen Ganley

## **The FSU Children's Learning Clinic : a comprehensive scientist-practitioner research clinic combining evidence-based clinical services with novel ADHD research strategies**

Ana Michelena

Research Mentor: Dr. Michael Kofler

## **Territoriality and Foraging of Parrotfishes on Coral Reefs in Bonaire, Netherlands**

Braeden Koechle & Jessica Henson

Research Mentor: Mr. Josh Manning

## **Role of Hydrogen Sulfide in Diet-Induced Erectile Dysfunction**

Gabriela Martinez

Research Mentor: Dr. Justin LaFavor

## **Barriers and Facilitators to Faculty Grantsmanship: A Systematic Literature Review**

Isabella Garcia

Research Mentor: Dr. Rachel Goff-Albritton

## **The Interpersonal Core of Conscientiousness: Mechanisms And Partner Effects That Promote Healthier Cognitive Aging And Reduce Risk of Alzheimer's**

Jane McGinnis

Research Mentor: Hannah Lovett

## **Measuring the Success of the ACE Tutoring Center**

Juliana Muller

Research Mentor: Dr. Courtney Barry

## **Project MED**

Juliette Sosa

Research Mentor: Dr. Scott Pickett

## **Science Identity: Thinking With Stories of Two Middle School Girls**

Kelly Simard

Research Mentor: Ms. Ivanna Pengelley

## **Academic Development for Black Males in Higher Education**

Madelyon Juliet Pezzi

Research Mentor: Mr. Jesse Ford

## **When Assembly Goes Wrong**

Matthew Allan Utset

Research Mentor: Dr. Antonia Nemece

**Meta-analysis of Research Methods in the Calcification of Coralline Algae**

Maxwell Gray

Research Mentor: Dr. Sophie McCoy

**Inclusion Body Formation of Mutated Huntingtin in De-ubiquitinase Mutant Yeast Cells**

Miguel Brinon

Research Mentor: Dr. Yanchang Wang

**The Impact of Colleges and Universities on Local Economic Development**

Noah L Nellis

Research Mentor: Dr. Shawn Kantor

**Evaluation of Antiviral Compounds Against Zika Virus Infection**

Santiago Portilla

Research Mentor: Ms. Angelica Medina

# Monday, April 6th

5:15 - 6:15 pm

Leaders Grace Castillo & Kiersten Goetz, Family and Child Sciences

<https://fsu.zoom.us/s/367141004>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Deferred Prosecution Program Guide**

Antonella Maneiro

Research Mentor: Ms. Antoinette Grier

## **A Comprehensive Overview of Deadly Mass Shootings in America, 1976-2018**

Breeana Laquea

Research Mentor: Dr. Jillian Turanvic

## **Parents, Parenting, and Social Media: A Systematic Review of the Research Literature**

Charleine Etienne

Research Mentor: Dr. Vanessa Dennen

## **The impact of teacher language use on student language development**

Georgi Taylor

Research Mentor: Dr. Carla Wood

## **It's Playtime! The Experiences of Children with and without Disabilities on Community Playground**

Korrin Sheahan

Research Mentor: Dr. Michelle Therrien

## **Technology Based Mathematical Problem Solving Instruction**

Sharry Anne Solis

Research Mentor: Dr. Sarah Cox

## **Retail Store Interiors in Latin American Countries From The 1990s**

Veronica Polanco

Research Mentor: Prof. Christie Hand



# Monday, April 6th

5:15 - 6:15 pm

Jordan Rundle & Jason Raiti, Hard Sciences

<https://fsu.zoom.us/j/268444246>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Development of a Deployable and Retractable Terrain Sensor Probe for Robot Navigation**

Aaron Kamata

Research Mentor: Dr. Camilo Ordonez

## **Game Based Learning: A Look Into the Future of Education**

Aishwareeya Rath

Research Mentor: Ms. Ginny Smith

## **Do estimates of prey body size impact diet analyses based primarily on count data?**

Claudia Jacobo

Research Mentor: Dr. Timothy Colston

## **Modern Applications of the SIR Model**

Jordan Artzy

Research Mentor: Dr. Francesca Bernardi

## **Growth Rate and Age of Gafftopsail Catfish (*Bagre marinus*) and Hardhead Catfish (*Ariopsis feli*)**

Nora Jolowsky

Research Mentor: Mr. Barry Walton

## **Predicting the Gross Primary Productivity of a Tropical Forest Canopy through the Application of Machine Learning on Thermal Images**

Peter Karras

Research Mentor: Dr. Trina Merrick

## **Measuring Groundwater to Surface Water Exchange in Lab Setting**

Sofia Torino

Research Mentor: Dr. Francesca Bernardi

## **Experimental Verification of a Hybrid Cryogen Superconducting Power Cable**

Tonya-Kaye Waite

Research Mentor: Dr. Peter Cheetham

## **Life at Low Reynolds: Models Incorporating Helical Flagella**

Zachary Bauer

Research Mentor: Dr. Owen Lewis

# Monday, April 6th

6:45 - 7:45 pm

Leaders Spencer Dechert & Marjorie Fitzsimmons, IMS

<https://fsu.zoom.us/j/665296534>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Losing Grip: Understanding How Individual Substance-Gripping Loops Within the Proteasome Alter Cellular Proteolysis**

Allison Trenkle

Research Mentor: Ms. Jennifer Warnock

## **Disproportionate Representation: Speech & Language Impairment Rates in Florida Schools**

Ashley Andrade

Research Mentor: Dr. Shannon Hall-Mills

## **Hurricane Michael Sleep Trauma and Regulation**

Ashley Garcell & Jonathan Mesa

Research Mentor: Dr. Scott Pickett

## **Pregnant Women Information-Seeking Behavior: Systematic Review**

Brittney Chang

Research Mentor: Dr. Zhe He

## **Intervention Development to address HIV and Syphilis Co-infection; A systematic review of the literature**

Brooke Mallett

Research Mentor: Dr. Nicole Ennis

## **Prioritizing Plant Conservation Needs in the Longleaf Pine Ecosystem**

Caroline Li Oteri

Research Mentor: Ms. Natali Ramirez-Bullon

**Accessing Engineering Standards: A Study in ARL Best Practices for Acquiring and Disseminating Standards**

Jake Flaks

Research Mentor: Ms. Denise Wetzel

**Examining the Factors that Affect Structural Repetition in Question Answering**

Kaitlyn Watkins

Research Mentor: Dr. Michael Kaschak

**Healthy Moms Mean Healthy Babies: The Role of Maternal Body Mass Index on Infant Feeding Practices**

Katherynn Aleena Pledger

Research Mentor: Dr. Jessica Bahorski

**Real Cost of Styrofoam Lizette Maldonado Research Mentor: Dr. Anthony Bouscaren Polyelectrolyte Complexes**

Michael Truman Sharp

Research Mentor: Dr. Joseph Schlenoff

**The Role of Motor Protein CIN8 in Chromosome Segregation**

Morgan Ling

Research Mentor: Dr. Yanchang Wang

**Effect of Bike Lane on Recreational Activity**

Nicholle Courrejolles

Research Mentor: Dr. Richard Feiock

**Gender, Quality-of-Life, and Optimism in Acute Stress among Patients Awaiting Open-heart Surgery**

Noor Esoo

Research Mentor: Dr. Amy Ai

## **STM Imaging of Organic Networks**

Sylvia Claudia Canko

Research Mentor: Prof. Lea Nienhaus

## **Childhood Lead Poisoning in the US: A Focus on State Specific Policy Formation**

Trisha Patel

Research Mentor: Prof. Katrinell Davis

# Monday, April 6th

6:45 - 7:45 pm

Leaders Anna Hale & Caleb Stephens, Business

<https://fsu.zoom.us/j/407378127>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **The Impact of Colleges and Universities on Local Economic Development**

Aditi Mondal, Rebecca Yap, & Joel Charles Weeks

Research Mentor: Dr. Shawn Kantor

## **Analysis of Variation in Auto Insurance Rate Filings**

Amelia Atallah, Riley Dyer, & Montgomery Phillips

Research Mentor: Dr. Patricia

## **Born Researching Applications of NKA Frameworks in Social Media Environments**

AnneMarie Russell

Research Mentor: Dr. Vanessa Dennen

## **Exploring Inspirational Movies and TV Shows**

Bernadette Molano

Research Mentor: Dr. Katherine Dale

## **The Effectiveness of Programs Designed to Reduce Distracted Driving**

Chloe Covington

Research Mentor: Dr. Charles Nyce

## **Landscape Archaeology of Southwest Sardinia: Digitization of Project Archive**

Dennis Dabney

Research Mentor: Dr. Elizabeth Murphy

## **Student-Housing as a Tool For Gentrification into the French-town Community**

Ezequiel Asis

Research Mentor: Prof. Tyler McCreary

## **What Were They Thinking?**

Gabriela Gongora & Brianna Joseph

Research Mentor: Mr. Nick Byrd

## **Relating Remotely Sensed Destruction Exposure to Maternal Health after Hurricane**

Michael Heilyn Velasquez

Research Mentor: Dr. Christopher Uejio

## **Exploring Female Characters in Bollywood Film**

Jacqueline Ann Kowalewski

Research Mentor: Ms. Rebecca Peters

## **Executive Turnover in Local Government**

Justin Frankel

Research Mentor: Mr. Chien-shih Huang

## **Analysis of Course-Based Tutor Usage at a University Peer Tutoring Center**

Macey Mullins

Research Mentor: Dr. Samantha Nix

## **Perceptions of Police Bias**

Marisa Martin

Research Mentor: Dr. Mackenzie Alston

## **Resilience and Volunteerism after Hurricane Michael**

Shaneze Douglas

Research Mentor: Prof. David Berlan

# Monday, April 6th

6:45 - 7:45 pm

Leaders Elizabeth Campos & Casey Copeland, Creative Arts and Humanities

<https://fsu.zoom.us/j/825542818>

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## **Better Dead Than Red: A Twentieth Century Crusade for Christ and Against Communism**

Alana Felton

Research Mentor: Dr. Daniel Wells

## **Student Thesis Films**

David Black

Research Mentor: Ms. Millicent Johnnie

## **Teleological Essentialism and Boundary Intensification**

Emma Moses

Research Mentor: Dr. David Rose

## **Exploring Inspirational Movies and TV Shows**

James Barberis

Research Mentor: Dr. Katherine Dale

## **Donation Center/Sound Art Studio James Clay Research Mentor: Prof. Daniel Luedtke A vision of civically engaged art education: Teens as arts based researchers**

Ketia Alphonse

Research Mentor: Dr. Sara Shields

## **The Genetics of Female Resistance to Male Harm in *Drosophila Melanogaster***

Maia Ruiz

Research Mentor: Dr. Sarah Kettelkamp



**The Human Dimension of World War II: Working with Original Documents and Artifacts**

Mallory Malman

Research Mentor: Dr. Kurt Piehler

**Educating Digital Citizens: A Review of Curricula**

Meghan Gilmore

Research Mentor: Dr. Vanessa Dennen

**It's Playtime! The Experiences of Children with and without Disabilities on Community Playground**

Melanie Millo

Research Mentor: Dr. Michelle Therrien

**Postcards and the Everglades: An Examination of Mid-20th Century Environmentalism**

Mia Jackson

Research Mentor: Dr. Michael Neal

**Digital Narratives: Capturing the Graduate Student Experience**

Miquelle De La Ossa

Research Mentor: Dr. Adrienne Stephenson

**The Research Study of Gender Based Writing Styles**

Schimelda Louissaint & Karelis Albornoz R

Research Mentor: Dr. Carla Wood

# Monday, April 6th

6:45 - 7:45 pm

Leaders Emma Chapman & Alexander Adams, Social Science, Languages

<https://fsu.zoom.us/s/544647658>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Direct Democracy and Social Policy Outcomes: Marijuana Legalization in the States**

Brooke Cohen

Research Mentor: Ms. Kelley Doll

## **The Unspoken: An Immersive Dance Theatre Experience**

Carson Flowers & Victoria Cabral

Research Mentor: Dr. Daniel Smith

## **Queer Peoples' Views on Allyship Across Genders**

Chloe Ilcus

Research Mentor: Mr. TehQuin

## **Forbes Appraising City-wide Goals and Strategies for Greenhouse Gas Emission Reduction**

Elizabeth Pruitt

Research Mentor: Ms. Morgan Higman

## **Mlimani Park Orchestra**

Evelyn Hove

Research Mentor: Dr. Frank Gunderson

## **A Marriage Between Church and State: The Electoral Influence of the Russian Orthodox Church**

Julian Cisneros

Research Mentor: Ms. Anastasiia

## **Vlasenko Black Women's Intimate Relationships and Dating Apps**

Kana Lilly

Research Mentor: Ms. Taylor Jackson

## **Leadership Learning Project**

Luciano Bettocchi

Research Mentor: Dr. Kathy Guthrie

## **Donation Patterns in the Local Community for Criminal Justice Reform**

Maria Acosta

Research Mentor: Ms. Antoinette Grier

## **The Language of "Fetal Programming" in a Social Dimension**

Naomi Cote

Research Mentor: Dr. Miranda Waggoner

## **The Rosenstrasse Protest**

Sheighlin Hagerty

Research Mentor: Dr. Nathan Stoltzfus

## **Campus Climate Change Survey**

Teagan Danilowicz

Research Mentor: Dr. Jayur Mehta

# Tuesday, April 7th

3:35 - 4:35 pm

Leaders Hana Grubb & Maria Quintana, Biochemistry

<https://fsu.zoom.us/j/970584076>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Academic Development for Black Males in Higher Education**

Braidan O'Connor

Research Mentor: Mr. Jesse Ford

## **Pollination Success and Associational Effects in S. Carolinese**

Catherine Lehman

Research Mentor: Dr. Jacob Heiling

## **Promiscuity in a Marine Snail**

Charles Gannon

Research Mentor: Ms. Alexandra Hooks

## **High-pressure Raman spectroscopic study of 3.65 Å hydrous phase**

Christelle Fiorina Bucag

Research Mentor: Dr. Abhisek Basu

## **The Progress of Writing Composition Over a Year in ESL students Compared To Native English Speakers**

Gabriella Oliveira

Research Mentor: Dr. Carla Wood

## **Gender in Conlanging**

Joseph Vincent Hatton Lefler

Research Mentor: Dr. Carolina Gonzalez

## **The Effect of Compression Socks on Exercise Performance: A Literature Review**

Kerstin Castro

Research Mentor: Dr. Dohoun Kim

## **Utilizing Virtual Reality to Better Understand the Causes of Suicide**

Neketa Nesmith & Juliette Ruiz

Research Mentor: Ms. Irene Huang

## **Bigger Isn't Always Better. The Effect of Colony Size on the Probability of Coral Mortality Following Bleaching**

Nyla Johnson

Research Mentor: Dr. Scott Burgess

## **Understanding Tuberculosis's Membrane Protein**

Paul Carpentier

Research Mentor: Dr. Huanjun Qin

## **Reconstituting Dengue Virus NS2B3 Protease-mcGAS Interaction in Vitro**

Ramsey Fadlalla

Research Mentor: Ms. Madhurima Bhattacharya

## **Barriers and Facilitators to Faculty Grantsmanship: A Systematic Literature Review**

Sandhya Yerra

Research Mentor: Dr. Rachel Goff-Albritton

## **Identification of Sexually Dimorphic Genes in *Drosophila Melanogaster***

Tracy Pham

Research Mentor: Mr. Kevin Doheny

## **C84Y Mutation in Cardiac Troponin C Influence on Cardiomyocyte Nuclear Structure**

Tyler Reinoso

Research Mentor: Dr. P. Bryant Chase

# Tuesday, April 7th

5:15 - 6:15 pm

Leaders Sarah Sullivan & Morgan Morrow & Emma Masters, Environment & Ecology

<https://fsu.zoom.us/j/419115199>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Climate Change Readiness in Lagos, Nigeria: Current Impacts and Prospects**

Abril Hunter

Research Mentor: Dr. Yana Bebieva

## **Effects of the "Leave No Trace" Ordinance on Sea Turtle Nesting Patterns in Northern Florida**

Alex Rebimbas

Research Mentor: Dr. Matthew Ware

## **Dendrochronological Analysis of Longleaf Pines in Florida**

Arianna Wittic

Research Mentor: Ms. Nicole Zampieri

## **Cataloging biopsy and blood samples of marine turtles from different areas in Florida**

Ashley Jackson

Research Mentor: Dr. Mariana Fuentes

## **The Effect of Hydraulic Fracturing on Oklahoma**

Hanna Franz

Research Mentor: Mr. Robert Powers

## **Mind(fulness) over Matter**

Jonathan Black

Research Mentor: Ms. Diana Carbonell

## **Hurricane Evacuation History**

Jordan Daly & Melissa Geiger

Research Mentor: Dr. Tinting Zhao

## **The Least Invasive Methods for Blood Collection on Florida Native Sea Turtle Species**

Maya Tiseth

Research Mentor: Dr. Mariana Fuentes

## **The Effects of Climate Change on *Karenia brevis***

Nolan Hartz

Research Mentor: Ms. Tristyn Bercel

## **Metal Silicides in Aluminum Flux**

Susan Morales

Research Mentor: Dr. Susan Lattuner

## **Hermit Crabs Personality, Size, and Habitat**

Yousi Español Rincón

Research Mentor: Dr. Emily DuVal

## **Acoustic Telemetry and Sex-specific movements of *Ariopsis felis***

Zoe Moore

Research Mentor: Mr. Barry Walton

# Tuesday, April 7th

5:15 - 6:15 pm

Leaders Grace Nystrom & Caroline Deyoe, Food and Nutrition  
Science/Dietetics

<https://fsu.zoom.us/j/998994493>

[bit.ly/ursabstract20](https://bit.ly/ursabstract20)

## **Differential Vulnerability to Tornado Impacts in Communities of the Rural U.S. South**

Allison Keeling

Research Mentor: Dr. Tisha Holmes

## **Ending the Youth HIV Epidemic**

Alyson Urbaniak

Research Mentor: Dr. Meardith Pooler-Burgess

## **Student Disability Registration and Migration Data at Institutions with Autism Specific Programs**

Carly Fulcher

Research Mentor: Dr. Bradley Cox P  
roject MED

Madison Hedge

Research Mentor: Dr. Scott Pickett

## **SMILES: Statistical Modeling and Integration of Large-Scale Single-Cell RNA Sequencing Data**

Madison Layfield

Research Mentor: Dr. Julia Wang

## **Epistemic Empathy within Science and Mathematics Classrooms**

Mary Dixon Wigginton

Research Mentor: Dr. Lama Jaber



## **Optimization of Glycoprotein Staining and Stain-free Gel Preparation**

Megan Appelbaum

Research Mentor: Dr. Qinchun Rao

## **3D Photogrammetry for Coral Reef Reconstruction**

Monet Cisneros

Research Mentor: Ms. Abigail Engleman

## **Unmaking Plastics: Recyclable Rubbers through Depolymerization**

Olivia Binner

Research Mentor: Dr. Justin Kennemur

## **A Nutrition Related Serious Game for Children in Immigrant Families**

Ravza Cayir

Research Mentor: Dr. Jessica Wendorf Muhamad

## **Analyzing Blood Clam Images using ImageJ and Fast Fourier transform**

Rosangel Salazar

Research Mentor: Dr. P. Bryant Chase

## **Food Availability and Size-Specific Annual Growth Rates in Sea Urchins**

Sofia Perez

Research Mentor: Dr. Daniel Okamoto

## **Evaluating Taste- Evoked Activity in the Gustatory Cortex**

Sonal Hirani

Research Mentor: Dr. Roberto Vincis

## **Melatonin Protects Against Deafferentation-Induced Cell Death in Chick Cochlear Nucleus**

Tiana Pham

Research Mentor: Dr. Richard Hyson

# Tuesday, April 7th

5:15 - 6:15 pm

Leaders Elias Larralde & Sergio Carlos Tamez, Humanities

<https://fsu.zoom.us/j/472646649>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Perspectives of SLPs on Friendship Maintenance and Development for Clients with Aphasia**

Alexa Flores

Research Mentor: Dr. Michelle Therrien

## **Social Media as a Parenting Support Tool: A Scoping review**

Amber Hedquist

Research Mentor: Dr. Vanessa Dennen

## **Better Dead Than Red: A Twentieth Century Crusade for Christ and Against Communism**

Cassidy Taylor

Research Mentor: Dr. Daniel Wells

## **Analyzing the Portrayal of Hitler and the Nazis in Media**

Cullen Bolkey

Research Mentor: Dr. Nathan Stoltzfus

## **Geomapping the John House Stereograph Collection**

Emily Oxford-Pickeral

Research Mentor: Mr. Chase van Tilburg

## **Archaeological Findings from the Cosa Bath House**

Jace Cookson & Angeles Urtubey

Research Mentor: Ms. Allison Smith

## **Homerica': A Digital Humanities Project in Python**

Nathan Lesser

Research Mentor: Dr. Allen Romano

## **"Fortress for Freedom: The American Ground Crew Experience During the Combined Bomber Offensive"**

Noah Silverstein

Research Mentor: Mr. (Major) John Prince

## **"Who's There?" Speaking First in Early British Drama**

Roxy Rico & Samantha Paradela Research

Mentor: Dr. Michael Wagoner

# Tuesday, April 7th

5:15 - 6:15 pm

Leaders Maegan Nation & Jennifer Poggio, Social Science & Psychology

<https://fsu.zoom.us/j/865286818>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Application of Machine Learning Models on MRI Data in Assessment of Peripheral Arterial Disease**

Antoinette Gladney

Research Mentor: Ms. Anahid Ehtemami

## **Career Adaptability, Dysfunctional Career Thoughts, and Athletic Identity among college student Athletes**

Avery Knipfing

Research Mentor: Mr. Ryan Sides

## **College Affinity Groups and the Effects on Mental Health**

Bernadyne Thelemaque

Research Mentor: Dr. Karen Oehme, J.D.

## **The Role that Reward Value of Food Has on Size and Frequency of Binge-eating Episodes in Women**

Elizabeth Holton

Research Mentor: Dr. Pamela Keel

## **Gentrification in Atlanta's LGBTQ Community Joandy Vega Research Mentor: Ms. Rachael Cofield Analyzing the Relation Between Visual Food Cues and Decision Making**

Joseph Arnold

Research Mentor: Dr. Rachel Bailey

**The Interpersonal Core of Conscientiousness: Mechanisms And Partner Effects That Promote Healthier Cognitive Aging And Reduce Risk of Alzheimer's**

Judalyn Arthoro

Research Mentor: Hannah Lovett

**Developing an Understanding of how Couples Interact in the Context of Problem Solving**

Kara Brizendine

Research Mentor: Dr. Andrea Meltzer

**Effects of Nature Exposure on Perceptual-Cognitive-Motor Performance**

Karla Rivaflecha

Research Mentor: Ms. Stinne Soendergaard

**Direct Democracy and Social Policy Outcomes: Marijuana Legalization in the States**

Kendall

Roy Research Mentor: Ms. Kelley Doll

**City Council Turnover and Recycling Rate and How They Are Influenced by Sustainability**

Lillian Savage

Research Mentor: Dr. Richard Feiock

**Disproportionate Representation: Speech & Language Impairment Rates in Florida Schools**

Lindsey Wood

Research Mentor: Dr. Shannon Hall-Mills

**Leadership Learning Project**

Megan Black & Milagros Jerez Research

Mentor: Dr. Kathy Guthrie

# Tuesday, April 7th

6:45 - 7:45 pm

Leaders Kelly Kaps & Adrian Othon & Anastasia Stichter, Exercise Psychology

<https://fsu.zoom.us/j/197173659>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **The Role of NADPH Oxidase in Endothelial Function**

Amber Dudek

Research Mentor: Dr. DoHoun Kim

## **Effect of Word Instruction on English-Learner Students**

Andrea Aguirre-Becerra

Research Mentor: Ms. Kristina Bustamante

## **A Systematic Review of the Literature on Social Stigma and Violence Against Transgender Sex Workers in Low- and Middle-Income Countries**

Andrew Brasington

Research Mentor: Dr. Seyram Butame

## **Supports and Constraints in Classroom Engagement: An Examination of the Discursive Moves of Two Girls' Sensemaking Endeavors in Science**

A'Rawni McPhee

Research Mentor: Dr. Jennifer Schellinger

## **Associations Between Social Determinants of Health, Perceived Discrimination, and Body Mass Index on Symptoms of Depression among Young African American Mothers**

Brenda Leon

Research Mentor: Ms. Rachel Harris

**Do Character Strengths Predict Long-term Survival in Patients after Open Heart Surgery?**

Caitlin Blanchard

Research Mentor: Dr. Amy Ai

**Measure Up: Size and Bleaching Severity in Pocillopora Corals?**

Chani Kotscher

Research Mentor: Dr. Scott Burgess

**Research Methods of the Gustatory System**

David Ackart

Research Mentor: Dr. Alan Spector

**Ergonomic Test Protocol**

Isabel Maya

Research Mentor: Dr. Meredith McQuerry

**Null Results: What Are We Missing and Where Do We Find Them?"**

Jacob Yap

Research Mentor: Dr. Nicholas Ruhs

**Health Benefits of Dried Plum Consumption**

Joseph Brunner

Research Mentor: Ms. Elizabeth Foley

**Effects of Bmal Gene on Circadian Rhythms Jun Ho Research Mentor:  
Dr. Choogon Lee Synthesis of Metal Silicides**

Kyle Findlay

Research Mentor: Dr. Susan Lattuner

**Spatial Relationships of French Monasteries in the 12th Century  
Through Chapters**

Lauren Becker

Research Mentor: Dr. Kyle Killian Depression

**Religious Coping, and Perfusion time Predicted Postoperative Functioning in Older Patients Undergoing Open-heart Surgery**

Morgan Neal

Research Mentor: Dr. Amy Ai

**Research and Trends in STEM Education in Preschool Setting: A Content Analysis of Publication in Selected Journals (2009-2018)**

Niang Dim

Research Mentor: Prof. Hye Ryung Won

**Implicit Suicidal Cognitions: A New Approach to the Death Implicit Association Test**

Sarah Ferguson

Research Mentor: Mr. Austin Gallyer

**Pilot Study: The Effect of Acute 5-Day Creatine Supplementation on Macrovascular Endothelial Function in Older Adults**

Thomas Dool

Research Mentor: Dr. Dohoun Kim

**Teleological Essentialism and Boundary Intensification**

Vanessa Welch

Research Mentor: Dr. David Rose



# Tuesday, April 7th

6:45 - 7:45 pm

Leaders Kemp Gonzalez-Xu & Justin Stow, Hard Sciences

<https://fsu.zoom.us/j/407378127>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **A Realistic Chandrasekhar Mass White Dwarf Model from a Binary Evolution**

Abelardo Riojas

Research Mentor: Dr. Tomasz Plewa

## **The Blockchain Network Caswell King Research Mentor: Dr. Michael Meth Bipedal Robot Slippage Prediction and Friction Test**

Chase Toepp

Research Mentor: Dr. Christian Hubicki

## **Peeking into the icy-giant planets: A high pressure-temperature study of hydrocarbons**

Christina Schiffert

Research Mentor: Dr. Abhisek Basu

## **How Torque and Minimum Control Effort affect Sit-to-Stand**

Dylan Ma

Research Mentor: Dr. Oscar Chuy Jr

## **Right-Angled Artin Groups and their Kernels**

Enrique Barquinero

Research Mentor: Dr. Lorenzo Ruffoni

## **Developing the High Granularity Calorimeter for CERN Large Hadron Collider**

Giovanni Good

Research Mentor: Dr. Ted Kolberg

## **Improving Sensitivity of High Frequency Electron Magnetic Resonance**

Harrison Santiago

Research Mentor: Dr. Johan van Tol

## **Qualitative Analysis of the Rock-Paper-Scissors Mathematical Model**

Jaclyn Pascual

Research Mentor: Dr. Nick Cogan

## **How has the location of the Bermuda High affected the path of major landfalling hurricanes in the United States across the past 30 years?**

Jordan Tweedie

Research Mentor: Dr. Mark Bourassa

## **Predicting Canopy Level Tropical Forest GPP with Thermal Imaging Using Deep Learning**

Kathryn Brill

Research Mentor: Dr. Trina Merrick

## **Reality Bytes**

Lucas Wilson

Research Mentor: Prof. Robert Curran

## **Monte Carlo Particle Detector Simulation of the Reaction Proton + Photon $\rightarrow$ Omega + Proton**

Ryan Goodrich

Research Mentor: Mr. Edmundo Barriga

## **Study on the Reaction Photon + Proton $\rightarrow$ eta' + Proton**

Shelby Arrigo

Research Mentor: Mr. Edmundo Barriga

## **Reverse Engineering with Ghidra**

Supriya Palli

Research Mentor: Dr. Charalambos Konstantinou

# Tuesday, April 7th

6:45 - 7:45 pm

Leaders Jon Peterson & Brittany Ernst, Pre-med & Athletic Training

<https://fsu.zoom.us/j/320216298>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Review of the Development of Thermal Manikins**

Cary Wong

Research Mentor: Dr. Meredith McQuerry

## **Analysis of Benthos Survivability on Artificial Substrates in Carrie Bow Cave, Belize**

Chaitanya Vibhute

Research Mentor: Ms. Abigail Engleman

## **Implicit Language Bias: How To Unconsciously Learn a Second Language**

Darice Nicolas

Research Mentor: Dr. Shaofeng Li

## **The Too Soon Effects of Returning to Work Postpartum in African American Households**

Deidra Edouard

Research Mentor: Dr. Joseph Grzywacz

## **Obesity and Its Relationship to Medication and Dietary Supplement Use**

Elizabeth Steidley

Research Mentor: Dr. Zhe He

**Assessing Patterns of Seagrass Communities as Indicators of Carbon Storage Potential**

Jakob Barzak

Research Mentor: Ms. Jennifer McHenry

**Ending the Youth HIV Epidemics**

Jordan Jankowski

Research Mentor: Dr. Meardith Pooler-Burgess

**Research and Trends in STEM Education in Preschool Setting: A Content Analysis of Publication in Selected Journals (2009-2018)**

Kate Fitts

Research Mentor: Prof. Hye Ryung Won

**Promiscuity in a Marine Snail**

Madison DeWitt R

Research Mentor: Ms. Alexandra Hooks

**Exercising Mind-Body: Adopting a Healthy Lifestyle to Cope with Stress**

Nangelis Rivera

Research Mentor: Ms. Hilla Sharon-David

**The Relationship Between Depression, Anxiety, and Cognitive Functioning: A Cross-sectional and longitudinal study**

Niah Washington

Research Mentor: Dr. Julia Sheffler

**Examining the Factors that Affect Structural Repetition in Question Answering**

Nicole Coca

Research Mentor: Dr. Michael Kaschak

## **Racial Minorities at Colleges with Autism Specific Support Programs**

Olivia Griffing

Research Mentor: Dr. Bradley Cox

## **Mind(fulness) over Matter**

Preston Hall

Research Mentor: Ms. Diana Carbonell

## **Suicidal Ideation, Suicide Attempts, and Suicide Death among Veterans and Service Members: A Comprehensive Meta-Analysis of Risk Factors**

Summer Fulcher & Gabriela Herrerias

Research Mentor: Ms. Katherine Musacchio Schafer

## **Ontogenetic Diet Shifts within Northern Abalone**

Trevor Alspach

Research Mentor: Dr. Daniel Okamoto

# Wednesday, April 8th

4:00 - 5:00 pm

Leaders Adaeze Nwigwe & Isis Porta, Biology

<https://fsu.zoom.us/j/545318473>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Mortality from Alcohol Exposure Increases with Lack of Circadian Rhythm**

Alexandra McKeown

Research Mentor: Lisa Lyons

## **The Genetics of Female Resistance to Male Harm in *Drosophila melanogaster***

Anna Abarca

Research Mentor: Sarah Kettelkamp

## **The Byzantine (Eastern Roman) Epic, Translated**

Blaise Ramirez

Research Mentor: Robert Romanchuk

## **Polishing YbAl<sub>3</sub> Crystals for Point Contact Spectroscopy**

Cameron Kamps

Research Mentor: Shengzhi Zhang

## **Behavioral and NEurochemical Mechanisms Underlying Social Buffering in Prairie Voles**

Chris May

Research Mentor: Zuoxin Wang

## **Gene Expression Modulation by CRISPR Activation and Interference**

Dhenu Patel

Research Mentor: Jerome Irianto

**Technology-Based Mathematics for Students with Autism Spectrum Disorder**

Elizabeth Thaxton

Research Mentor: Nanette Hammons

**Hindered Transport Across a Mucus Layer: Mathematical Modeling of Electrodiffusion through Mucus**

Ella Missey

Research Mentor: Owen Lewis

**Exploring the Interaction between Early Life Adversity and Support Groups on Adult Cognitive Status**

Elyse Duplantier

Research Mentor: Julia Sheffler

**Teleological Essentialism and Boundary Intensification**

Gracie Glass

Research Mentor: David Rose

**Safety Behaviors and Social Anxiety Haley Michael Research Mentor: Lauren Stentz Researching Applications of NKA Frameworks in Social Media Environments**

Korinna Toth

Research Mentor: Vanessa Dennen

**Documenting the Rise and Fall of Coral Reef Cyanobacterial Mats**

Lena Kury

Research Mentor: Ethan Cissell

**The Effects of Ocular Atropine Administration on c-Fos Activation in the Brain**

Maria Guidubaldi

Research Mentor: Elizabeth Hammock

## **Proliferation of the Cell Cycle in Human Beta Cells**

Patrick Wabnitz

Research Mentor: Julia Wang

## **Teacher and Child Talk During Shared Reading For Pre-Schoolers With Autism Spectrum Disorder**

Sydney McIver

Research Mentor: Xiaoning (Natalie) Wang

## **Reconstituting Dengue Virus NS2B3 Protease-mcGAS Interaction in Vitro**

Tryfon Theophilopoulos

Research Mentor: Madhurima Bhattacharya



# Wednesday, April 8th

5:15 - 6:15 pm

Leaders Kaleigh Young & Hannah Primozić, Social Science & Psychology

<https://fsu.zoom.us/j/677655758>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Postoperative Functioning in Older Cardiac Patients: Impacts of Psychological and Event-severity Factor**

Alexa Pappas

Research Mentor: Amy Ai

## **How Affective Are Counties in Communicating Recycling Messages to Their Citizens and Are They Effective?**

Angelina Grosso

Research Mentor: Dr. Namhoon Ki

## **Documenting the Rise and Fall of Coral Reef Cyanobacterial Mats**

Caleb Confusione

Research Mentor: Ethan Cissell

## **Evaluating Seminole Advisors**

Christelza Janvier

Research Mentor: Dawn Matthews

## **Predicting Burnout in Newly Hired Child Welfare Workers**

Dawn Elizabeth Kay Erlich

Research Mentor: Lisa Magruder

## **Learning Through Cycles of Collaborative Design**

Elisabeth Slota

Research Mentor: Jennifer Schellinger

## **Analyzing the Portrayal of Hitler and the Nazis in Media**

Emma Beaudoin

Research Mentor: Nathan Stoltzfus

## **Teacher and Child Talk During Shared Reading For Pre-Schoolers With Autism Spectrum Disorder**

Gabrielle Deutsch

Research Mentor: Xiaoning (Natalie) Wang

## **Better Dead Than Red: A Twentieth Century Crusade for Christ and Against Communism**

Kira Johansen

Research Mentor: Daniel Wells

## **Campus Climate Change Survey Meredith**

Margaret Ellis

Research Mentor: Jayur Mehta

## **A Comprehensive Overview of Deadly Mass Shootings in America, 1976-2018**

Michaela Wilson

Research Mentor: Jillian Turanvic

## **Meaning In Life and Research: Learning and Utilising Meta-Analysis**

Polina Udalova

Research Mentor: Sean Dougherty

## **The Landscape of Accelerated Learning**

Savannah Barr

Research Mentor: Patrice Iatarola

## **Cuban Postcards During A Time Of Political Instability**

Sophia Donato

Research Mentor: Michael Neal

# Wednesday, April 8th

5:15 - 6:15 pm

Leaders Jessica Bissey & Shayna Cohen, Social Science & Economics

<https://fsu.zoom.us/j/664259226>

[bit.ly/ursabstract20](https://bit.ly/ursabstract20)

**Resilience and Volunteerism after Hurricane Michael**

Alfredo Alvarez

Research Mentor: David Berlan

**The Psychological Toll of Prison Systems** Amelia Maingot Research

**Mentor: Tanya Renn A Comprehensive Overview of Deadly Mass**

**Shootings in America, 1976-2018**

Ana Paula Siqueira

Research Mentor: Jillian Turanvic

**Spatiotemporal Relationship Between Invasive Lianas and Trails in a  
Tropical Forest on Barro Colorado, Panama**

Anna Lewis

Research Mentor: Trina Merrick

**How Top-tier Research Institutions Affect the Surrounding Economy**

Elijah Bishop & Elizabeth Iaconis

Research Mentor: Shawn Kantor

**Sexism on The Hill: The Inability of Congresswomen to Pass  
Legislation**

Maya Vazquez

Research Mentor: Michelle Whyman

## **Identity, Race, and Gender in Video Games**

Michael Cedeno

Research Mentor: Bertan Buyukozturk

## **A Marriage Between Church and State: The Electoral Influence of the Russian Orthodox Church**

Michael Hervey & William Ferguson

Research Mentor: Anastasiia Vlasenko

## **Well-being Measures Noelle Du Bois Research Mentor: Jorge Oseguera Gamba Sustainable Healthy Cities**

Sarah Suber

Research Mentor: Jonathan Lubin

## **Race & Place: The Black Experience at FSU**

Talia Stewart

Research Mentor: Shantel Buggs

# Wednesday, April 8th

5:15 - 6:15 pm

Leaders Emma Graumlich & Arria Hauldin, Social Science & Anthropology

<https://fsu.zoom.us/j/687927044>

[bit.ly/ursabstract20](https://bit.ly/ursabstract20)

## **The "Americanization" of Drury Lane: Oklahoma!, My Fair Lady and Transnational Influences in British Musical Theatre**

Alyssa Sharp Research

Mentor: Arianne Johnson Quinn

## **The Rose-Colored Glasses of Fake News**

Chandler Campbell

Research Mentor: Daniel Fay

## **Beyond A Different World: Experiences of Black Women HBCU Alumnae Enrolled in PWI Doctoral Programs**

Emiah Youman

Research Mentor: Dawn Matthews

## **Postcards from the Front**

Ethan Dubroff

Research Mentor: Michael Neal

## **Travelling Yellow Peril: Race, Gender, and Empire in Japan's English Teaching Industry**

Ian Banker

Research Mentor: Christina Owens

## **Race & Place: The Black Experience at FSU**

Jaze Shaw-Young

Research Mentor: Shantel Buggs

**Making up War in Cote d'Ivoire: Politics, Religion, and Conflict in West Africa**

Logan Colangelo

Research Mentor: Joseph Hellweg

**Parents, Parenting, and Social Media: A Systematic Review of the Research Literature**

Mackenzie Tolrud

Research Mentor: Vanessa Dennen

# Wednesday, April 8th

6:45 - 7:45 pm

Leaders Lauren Daley & Martina Kvitkovicova, Engineering

<https://fsu.zoom.us/j/859725367>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Bioinformatic Analytics of Pancreatic Cancer Cells**

Andrew Aarons

Research Mentor: Jerome Irianto

## **Modeling Human Mobile Co-Robot Physical Interaction**

Ashleigh Johnson

Research Mentor: Oscar Chuy

## **Cable-suspended Robotic Systems for Improving On-Orbit Robotics**

Brittany Zabawa & Christina Codrington

Research Mentor: Rodney Roberts

## **Life at Low Reynolds: Models Incorporating Helical Flagella**

Brooke Bielski

Research Mentor: Owen Lewis

## **Control Optimization and Analysis of Superconducting Power Grid for Electric Transport Applications**

Emilio Manzo

Research Mentor: Peter Cheetham

## **Shoot the Turtles: Machine Transfer Learning's Applications in Marine Object Detection**

Erin Murphy & John Sutor

Research Mentor: Jonathan Adams

## **Measuring Groundwater to Surface Water Exchange in Lab Setting**

King Paul

Research Mentor: Francesca Bernardi

## **Heat Dispersion in Cryogenic Temperatures for Superconductor Applications**

Maxwell McCammon

Research Mentor: Peter Cheetham

## **Development of a Deployable and Retractable Terrain Sensor Probe for Robot Navigation**

Michael Dina

Research Mentor: Camilo Ordonez

## **Hardware-in-the-loop Simulation of Multi-vehicle Cyber-physical System**

Samantha Steimer

Research Mentor: Olugbenga Moses Anubi

## **Synthesis of Tungsten Silicide Aluminide in Aluminum Flux**

Skylar Scorca

Research Mentor: Susan Lattuner

## **Applying Modified Additive Manufacturing (3D Printing) To Electrical Insulation**

Spencer Martin

Research Mentor: Peter Cheetham



# Wednesday, April 8th

6:45 - 7:45 pm

Leaders Jose Martinez & Paige Levanti, Transfer Student Group

<https://fsu.zoom.us/j/539576318>

[bit.ly/ursabstract20](https://bit.ly/ursabstract20)

## **Analysis of Benthos Survivability on Artificial Substrates in Carrie Bow Cave, Belize**

Addison Golstein

Research Mentor: Abigail Engleman Black

## **Queer Students and Homophobia on College Campuses**

Andrea Cayasso

Research Mentor: TehQuin Forbes

## **Growth Patterns and Mutualistic Relationships Between Mangrove Sponge Species and Its Impact on Mangrove Restoration**

Benton Jaco

Research Mentor: Janie Wulff

## **A Familial Impact: Can Socioeconomic Status Hinder a Child's Academic Success?**

Bridget David

Research Mentor: Carla Wood

## **The Relationship Between Depression, Anxiety, and Cognitive Functioning: A Cross-sectional and longitudinal study**

Diamond Taylor

Research Mentor: Julia Sheffler

## **A Marriage Between Church and State: The Electoral Influence of the Russian Orthodox Church**

Gaberiel Clements

Research Mentor: Anastasiia Vlasenko

## **The Function of Swe1 in a New Pathway of Cell Restoration after HU Treatment**

Ivan Kliuikov

Research Mentor: Yanchang Wang

## **The Microdialysis Technique and Its Vital Role**

Kiera Singletary

Research Mentor: Do-Houn Kim

## **The FSU Children's Learning Clinic : A Comprehensive Scientist-practitioner Research Clinic Combining Evidence-based Clinical Services with Novel ADHD Research Strategies**

Mark Sultan

Research Mentor: Dr. Michael Kofler

## **The Effect of Musical Training on L2 Acquisition of Chinese Tones**

Nathan Tabor

Research Mentor: Zhiying Qian

## **Creation and Evaluation of a Motion Capture Data Streaming Client**

Samuel Roberti

Research Mentor: Christian Hubicki

## **Robots That Walk: Predicting Slipping in a Bipedal Robot**

Sasindu Pinto

Research Mentor: Christian Hubicki

## **5 Key Concepts: Reinventing Post Release Programs**

Vanessa Ramos

Research Mentor: Tanya Renn

# Thursday, April 9th

10:30 - 11:45 am

<https://fsu.zoom.us/j/298545803>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Sodium Butyrate: A Study on a Commonly Prescribed HDACi on Chromatin Structure**

Alana Chang

Research Mentor: Dr. Jonathan Dennis

## **Sex differences in an activity-based Anorexia Rat Model**

Brianna Carney

Research Mentor: Dr. Linda Rinaman

## **Is There a Relation Between Visual Motor Integration and Academic Achievement in School-Aged Children with and without ADHD?**

Chloë Carames

Research Mentor: Dr. Michael Kofler

## **Impact of a brief web-based anxiety sensitivity intervention on alcohol use outcomes**

Christopher Zappi & Cameron Matoska

Research Mentor: Dr. Norman Schmidt

## **The Effect of Conductor Magnitude on Students' Perceptions of Inspiration**

David Ramos

Research Mentor: Dr. William Fredrickson

## **The Ukrainian Crisis, Violence in the East, and its effect on Ukrainian Internally Displaced people and Refugees**

Emma Beyar

Research Mentor: Kohli Bagwe

**Who Uses Big Words and Does it Matter? Morphologically Complex Words in Writing**

Karina Hernandez

Research Mentor: Dr. Carla

**Wood Successive Versus Simultaneous Bilingualism in College Students**

Katherine Diaz

Research Mentor: Dr. Valeria M. Rigobon

**Effect of Cognitive-Linguistic Load on Gait Performance in Persons with Aphasia**

Keaton Farne

Research Mentor: Dr. Elizabeth Brookshire Madden

**Replication Foci Patterns in HCT116 and H9 Cells in 16 Sub-stages of S Phase**

Kristina Lynch

Research Mentor: Dr. David Gilbert

**AirBnB & The Effects on Rental Pricing in San Francisco**

Maia Hass

Research Mentor: Dr. Samuel Staley

**Evaluating Disinhibition and Decision-making Using a BART Task**

Rachel Bowns

Research Mentor: Dr. Christopher Patrick

**Synthesis and Spectroscopic Analysis of Samarium(II) Crown Ether Complexes**

Sarah Molinari

Research Mentor: Todd Poe

**Exploring the Relationship Between Moral Injury and PTSD in Suicide Attempt Survivors**

Savannah Woller

Research Mentor: Dr. Brad Schmidt

**State Immigration Law and Racial Profiling Shane Whitney Research  
Mentor: Dr. Carl Kitchens Sex and Length as Predictors of Vertical  
Movements in Smalltooth Sawfish (*Pristis pectinata*)**

Taylor Mogavero

Research Mentor: Dr. Dean Grubbs

**Green Lynx Spiders and Investigating Their Capability to Camouflage**

Zulay Rodriguez

Research Mentor: Dr. Thomas Miller

Thursday, April 9th

Nourishing Creativity Presentations

12:00 - 1:15 pm

<https://fsu.zoom.us/j/822488299>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

**The GradImpact Project: Digital Storytelling of FSU**

**Graduate Student Experiences**

Miquelle de la Ossa & Nyah German

Research Mentor: Adrienne Stephenson

***Mondays Calls from Your Mother, and All the Things We've  
Lost, Creative Poetry Reading***

Emilee Wigglesworth

Research Mentor: David Kirby

**New York Public Library for the Performing Arts Blog  
Publication Project**

Group project with Dr. Arianne Quinn

Research Mentor: Dr. Arianne Quinn

***\$1,134.24, A Visual Art Project***

Morgan Wegner

Research Mentor: Tenee' Hart

# Thursday, April 9th

1:30 - 2:45 pm

<https://fsu.zoom.us/j/511328216>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Study of Potential Energy Harvesting: Opportunity Utilizing Thermoelectric Effect**

Charles Kennedy

Research Mentor: Dr. Omar Faruque

## **Chinese and Indian Environmental Enforcement Policies: Will it Save Our Water?**

Erin King

Research Mentor: Dr. Elcin Haskcollar

## **Studying Semantics in Children with Autism Spectrum Disorder**

Glenn Muston

Research Mentor: Ms. Valeria Rigobon

## **The Passability of Inclusivity: An Examination of Marginalized and Minority Coverage Within Anti-Discrimination Bills from The 80th to 114th Congress**

Jack Mills

Research Mentor: Dr. Michelle Whyman

## **Faith-based Cognitive-Behavioral Intervention for Distressed African-American Dementia Caregivers: Treatment Fidelity Analysis**

Kerlenz Lapaine & Victoria Strongosky

Research Mentor: Dr. Robert Glueckauf

**Disappearing Islands: Impacts of Sea Level Rise on Indigenous Populations in the Pacific Islands**

Leah Huff

Research Mentor: Dr. Elçin Haskollar

**Post-weaning Social Isolation Alters Microgliosis in a Sex- and Brain Region-specific Manner in Male and Female Prairie Voles**

MacKenzie Ellis

Research Mentor: Dr. Zuoxin Wang

**Magneto-Structural Relations in MnSe-MnTe Solid Solutions**

Madeleine Uible

Research Mentor: Dr. Michael Shatruk

**Skin Cancer Detection and Classification using an Artificial Neural Network**

Marlan McInnes-Taylor

Research Mentor: Dr. Sonia Haiduc

**So Fine a Set of Men: The Influence of Race Relations Between Civil War Soldiers And the Shift in Perspective**

Matthew Feiler

Research Mentor: Dr. Kathrine Mooney

**The Case of Franklin Boulevard in Tallahassee, Florida**

Mazi Rhodes

Research Mentor: Dr. Samuel Staley

**The Pathogenic and Therapeutic Potential of Extracellular Vesicles in Alzheimer's Disease**

Michael Vreones

Research Mentor: Dr. David Meckes



**Remote Sensing in the Chesapeake Bay: A Focus on Harmful Algal Blooms**

Natasha De La Cruz

Research Mentor: Dr. Greg Silsbe

**Investigation into the Diet Ecology of the Tiger Rattlesnake (*Crotalus tigris*)**

Rachel Saul

Research Mentor: Dr. Matthew

**Holding Examining Significant Predictors for Student Math Achievement**

Sasha Campbell

Research Mentor: Dr. Colleen Ganley

**Examining the Impact of Poverty on Economic Growth: Southern Africa**

Sydney Sparrow

Research Mentor: Dr. Elcin Haskollar

**What is the Friendliest LGBTQIA+ Country?: A Comparison of the Developed and Developing World**

Taylor Mackin

Research Mentor: Dr. Elcin Haskollar

**Low-dose CCK-induced Activation of NTS GLP-1 Neurons and the PVN**

Tyla Dolezel

Research Mentor: Dr. Linda Rinaman

**Investigating Gender and Anxiety**

Victoria Krentz, Lauren Weeks, & Rachel Gaitan

Research Mentor: Dr. Colleen Ganley

# Thursday, April 9th

3:00 - 4:15 pm

<https://fsu.zoom.us/j/348197622>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Florida Solar Energy Pricing: Cost-Benefit and Sensitivity Analysis of Florida Power and Light's Projects**

Arnel Garcesa

Research Mentor: Dr. Crystal Taylor

## **Effect of Spanish familiarity on recognition and spelling abilities of words with shared Latin roots**

Brandon Patron

Research Mentor: Dr. Valeria M. Rigobon

## **Investigating Collegiate Students' Perceptions on the Potential Risks and Benefits of Electronic Cigarette Use, and the Relationship Between E-Cigarette use and Depressive and Anxious Symptomatology**

Cameron Matoska

Research Mentor: Dr. Ed Hansen

## **The Effects of Ocular Atropine Administration on c-Fos Activation in Oxytocin Wild-type and Knockout Mice**

Joseph Guidubaldi

Research Mentor: Dr. Elizabeth Hammock

## **Sarah Grimke and Women's Education in Pakistan**

Kelly Malandra

Research Mentor: Dr. Amanda Brooks

## **Cyber Risk Management**

Rachael Gunter

Research Mentor: Dr. Patricia Born

**Examining the Influence of Gender in Developing cCrdiometabolic Disease**

Rhiannon Crawford

Research Mentor: Dr. Michelle Parvatiyar

**Painting Class: An Analysis of Alice Neel's Engagement with Francisco Goya**

Sahara Lyon

Research Mentor: Dr. Tenley Bick

**Teleological Essentialism and Boundary Intensification**

Sophia Akel

Research Mentor: Dr. David Rose

**Is Bullying Focused Bibliotherapy an Effective Tool for Children? A Review of the Literature**

Sophia Putzeys, Madison Woodall, Ariana Cardona, Brittany Morgan, and Kinsey Schorr

Research Mentor: Dr. Lyndsay Jenkins

**Female Incarceration**

Spencer Nicholson

Research Mentor: Dr. Julie Brancale

**Misogyny in Black Culture**

Unique Castro

Research Mentor: Ms. Sherrina Lofton

**Finding Codes in Higher Dimensions**

William Driscoll

Research Mentor: Dr. Oleksanr Vlasiuk

# Thursday, April 9th

5:15 - 6:16 pm

Leaders Christina Hayworth & Marissa Latouche, Psychology

<https://fsu.zoom.us/j/962448751>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Lead Remediation Policy in the United States**

Abigail Branham

Research Mentor: Prof. Katrinell Davis

## **Network Modeling and Simulation**

Andre Merchan Revilla

Research Mentor: Dr. Charalambos Konstantinou

## **Well-being Measures**

Annie Bolter

Research Mentor: Mr. Jorge Oseguera Gamba

## **Making up War in Cote d'Ivoire: Politics, Religion, and Conflict in West Africa**

Carlisle Ziesig

Research Mentor: Dr. Joseph Hellweg

## **A Comprehensive Overview of Deadly Mass Shootings in America, 1976-2018**

Georgia Watson

Research Mentor: Dr. Jillian Turanvic

## **Examining the Effect of Hope on Couple's Therapy**

Graciela Medina

Research Mentor: Mr. Spencer Youngberg

## **Effect of Word Instruction on English-Learner students**

Irene Mamea

Research Mentor: Ms. Kristina Bustamante

## **Barriers and Facilitators to Faculty ?Grantsmanship: A Systematic Literature Review**

Judy Pierre

Research Mentor: Dr. Rachel Goff-Albritton

## **Technology-Based Mathematics for Students with Autism Spectrum Disorder**

Melanie Umbdenstock

Research Mentor: Ms. Nanette Hammons

## **Implicit Suicidal Cognitions: A New Approach to the Death Implicit Association Test**

Zachary Scott

Research Mentor: Mr. Austin Gallyer

# Thursday, April 9th

5:15 - 6:16 pm

Leaders Anna Wuest & Cara Axelrod, Transfer group

<https://fsu.zoom.us/s/924037288>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **One Nation Under Guns: A Social History of Faith and Firearms in America**

Alec Jimenez

Research Mentor: Prof. Michael McLaughlin

## **Modern Applications of the SIR Model**

Anthony Ballestas

Research Mentor: Dr. Francesca Bernardi

## **Agnes Stillwell in Potter's Quarter**

Caroline Gilley

Research Mentor: Dr. Kathrine Harrington

## **Social Media as a Parenting Support Tool: A Scoping review**

Casey Cargill

Research Mentor: Dr. Vanessa Dennen

## **Differential Vulnerability to Tornado Impacts in Communities of the Rural U.S. South**

Claudia Camilus

Research Mentor: Dr. Tisha Holmes

## **Examination of *Amphimedon compressa* as a Complex of Cryptic Sponge Species**

Deborah Olivier

Research Mentor: Ms. Bobbie Renfro

**Effects of Biofeedback Training Intervention on Behavioral and Neurocognitive Performance in adults**

Francesca Carpentieri

Research Mentor: Dr. Pascal Jean-Pierre

**Outsourcing of Investment Management for Life Insurance Corporations**

Francisco Lebron

Research Mentor: Dr. Kyeonghee Kim

**Deadly Mass Shootings 1976-2018: Trends, Features, and Media Reporting**

Hannah P. Stevenson

Research Mentor: Dr. Jillian Turanovic

**In the Member's Best Interest**

Laurie-Yolita Louissaint

Research Mentor: Dr. Gary Bliss

**Dante Today: Cataloging Culture**

Luis Sanchez

Research Mentor: Dr. Elizabeth Coggeshall

**Role of Adiponectin in Exercise Training-Induced Adaptations of the Cardiovascular System**

Megan Schimansky

Research Mentor: Dr. Judy Delp

**Effects of Neighboring Plants on Seed Yield in the Species *Solanum carolinense***

Sandra Miles

Research Mentor: Dr. Dr. Jacob Heiling

**Water Purification Technologies for Rural Communities in West Africa: Current Challenges and Future Directions**

Taylor Fant

Research Mentor: Dr. Sam Yang

# Thursday, April 9th

5:15 - 6:16 pm

Leaders Ashley Moses & Mannat Thakur & Jessica Folsom, Neuroscience

<https://fsu.zoom.us/j/768653511>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Impaired Hippocampal-cortical Interactions During Sleep and Memory Reactivation Without Consolidation in a Mouse Model of Alzheimer's Disease**

Ashley Silk

Research Mentor: Dr. Aaron Wilber

## **Investigating Math Interpretation Bias and it's Relation with Math Anxiety**

Camila De Armas

Research Mentor: Dr. Colleen Ganley

## **The Role of NADPH Oxidase in Endothelial Function**

Cara Gillespie

Research Mentor: Dr. DoHoun Kim

## **The Impact of Teacher Language Use on Student Language Development**

Daisy Ramos

Research Mentor: Dr. Carla Wood

## **Exploring Female Characters in Bollywood Film**

Damamli Dorsey

Research Mentor: Ms. Rebecca Peters

## **Learning Through Cycles of Collaborative Design**

Isabella Bayramov

Research Mentor: Dr. Jennifer Schellinger



## **Dopamine Receptor Expression in the Olfactory Bulb**

Jessica Moser

Research Mentor: Dr. Douglas Storace

## **The Role of Basic Heritage Language Courses in Acquiring and Maintaining the Spanish Language**

Kairin Bonilla

Research Mentor: Dr. Estrella Rodriguez

## **Blue-to-UV Upconversion Through Tunable CsPbBr Triplet Sensitization**

Kelsey Morris

Research Mentor: Prof. Lea Nienhaus

## **Network resilience in a brain network for birdsong**

Kerrianna Jadunandan

Research Mentor: Dr. Frank Johnson

## **Self-Directed Research**

Kevin Etienne

Research Mentor: Dr. Casey Dozier

## **Analyzing the Relationships Between Nostalgia, Meaning, Depression, and Suicidal Ideation**

Lena Shepulski

Research Mentor: Mr. Sean Dougherty

## **Mortality from Alcohol Exposure Increases with Lack of Circadian Rhythm**

Natalie Storch

Research Mentor: Dr. Lisa Lyons

## **Digital Narratives: Capturing the Graduate Student Experience**

Nyah German

Research Mentor: Dr. Adrienne Stephenson

## **Project MED**

Robel Mechal

Research Mentor: Dr. Scott Pickett

## **Gentrification in Atlanta's LGBTQ Community**

Sarah Gallagher

Research Mentor: Ms. Rachael Cofield

## **The Effect of pH on GBP2 Reactivity**

William Zak

Research Mentor: Dr. Qian Yin

# Thursday, April 9th

5:15 - 6:16 pm

Leaders Caitlin Baird & Caitlin Violette, Psychology

<https://fsu.zoom.us/j/962448751>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Research and Trends in STEM Education in Preschool Setting: A Content Analysis of Publication in Selected Journals (2009-2018)**

Alana Rigby

Research Mentor: Prof. Hye Ryung Won

## **The Effects of Sleep Deprivation on Suicidal Behaviors in a Virtual Reality Paradigm**

Augusta Mansfield

Research Mentor: Ms. Lauren Harris

## **Understanding Prejudice and Facilitating Social Change**

Imani Lewis

Research Mentor: Ms. Kristina Chamberlin

## **Design and Creation of Various Art Forms**

Kimberly Le

Research Mentor: Prof. Kevin Curry

## **Inclusivity through the Student Resilience Project**

Maricela Rubio

Research Mentor: Dr. Karen Oehme

# Thursday, April 9th

5:15 - 6:16 pm

Leaders Raechel Sanger & Anna Jara, Psychology

<https://fsu.zoom.us/j/936560513>

[bit.ly/ursabstract20](https://bit.ly/ursabstract20)

## **Interactive Effects of Anxiety Sensitivity and Trauma Type on OC Symptoms in a Trauma-Exposed Community Sample**

Ashley Crisafulli

Research Mentor: Ms. Danielle Morabito

## **Spatial Reorientation Impairment in the Parietal-Hippocampal Network of Mice Models with Alzheimer's Disease Pathology**

Carolina Garcia-Barbon

Research Mentor: Dr. Aaron Wilber

## **The Psychological Toll of Prison Systems**

Jailene Oliva

Research Mentor: Dr. Tanya Renn

## **Detection Thresholds of Mice to Commonly Used Odorants**

Jordan Singer

Research Mentor: Dr. Adam Dewan

## **Developing an Understanding of how Couples Interact in the Context of Problem Solving**

Madeline Jubran

Research Mentor: Dr. Andrea Meltzer

## **The Contribution of TAAR's to Amine Discrimination**

Matthew Gomes

Research Mentor: Dr. Adam Dewan

## **Roles Of Non-Profits in Hurricane Response and Recovery**

Nadia Patterson

Research Mentor: Dr. John Mathias

## **A Preliminary Evaluation of an Exposure-Based Treatment for Perfectionism**

Payton Sikes

Research Mentor: Ms. Sarah Redden

## **Exploring the Interaction between Early Life Adversity and Support Groups on Adult Cognitive Status**

Valeria Burchard

Research Mentor: Dr. Julia Sheffler

## **Deferred Prosecution Program Guide**

Vinchenzo Vassalotti

Research Mentor: Ms. Antoinette Grier

# Thursday, April 9th

6:45 - 7:45 pm

Leaders Autumn Aniello & Zoe White, Pre-nursing

<https://fsu.zoom.us/j/561761713>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Effect of Word Instruction on English-Learner students**

Amaya Fernandez

Research Mentor: Ms. Kristina Bustamante

## **Examining the Effect of Hope on Couple's Therapy**

Ashton Johnson

Research Mentor: Mr. Spencer Youngberg

## **Using enhanced-milieu teaching with experience books to improve verbal language skills of children with visual impairment (VI) and developmental disability (DD)**

Carly Mayzum

Research Mentor: Mr. Mert Bilgin

## **The Too Soon Effects of Returning to Work Postpartum in African American Households**

Desyree Houston

Research Mentor: Dr. Jospheh

## **Technology Based Mathematical Problem Solving Instruction**

Jaden Jones

Research Mentor: Dr. Sarah Cox

## **The Functional Role of the Anterior Thalamic Nuclei-parietal Cortex Network on Spatial Orientation**

Jazmin Belton

Research Mentor: Dr. Aaron Wilber

**Supports and Constrains in Classroom Engagement: An Examination of the Discursive Moves of Two Girls' Sensemaking Endeavors in Science**

Katarina Gomez

Research Mentor: Dr. Jennifer Schellinger

**The FSU Children's Learning Clinic : A Comprehensive Scientist-practitioner Research Clinic Combining Evidence-based Clinical Services with Novel ADHD Research Strategies**

Kellie Conlon

Research Mentor: Dr. Michael Kofler

**The Importance Of Legacy data in Archaeology**

Kimberly Civil

Research Mentor: Dr. Katherine Harrington

**Sibling Influence on Child Health Behaviors and Obesity: A Systematic Review**

Kyrie Blocker

Research Mentor: Dr. So Hyun Park

**Perspectives of SLPs on Friendship Maintenance and Development for Clients with Aphasia**

Lauryn Barkley

Research Mentor: Dr. Michelle Therrien

**Determining if Male Familial History in Reading and Language Difficulties Poses a Higher Indication of Risk**

Leilani Fleites-Fernandez

Research Mentor: Dr. Beth Phillips

**Effects of Nature Exposure on Perceptual-Cognitive-Motor Performance**

Martin Gonzalez

Research Mentor: Ms. Stinne Soendergaard

## **Parental Influence on Preschoolers Academic Performances**

Robyn Wilson

Research Mentor: Dr. Beth Phillips

## **Patient Experiences with Information Seeking for Cancel Clinical Trials**

Shelby Harper

Research Mentor: Ms. Lynette Gerido

## **The Interpersonal Core of Conscientiousness: Mechanisms And Partner Effects That Promote Healthier Cognitive Aging And Reduce Risk of Alzheimer's**

Taylor Mosca & Genevieve Murdoch

Research Mentor: Hannah Lovett



# Thursday, April 9th

6:45 - 7:45 pm

Leaders Selina Nevin & Meagan McLaughlin, Social Science, International Affairs, Political Science

<https://fsu.zoom.us/j/751933839>

[bit.ly/ursabstract20](http://bit.ly/ursabstract20)

## **Utilizing Geographic Information Systems for Football Gameday Car Crash Analysis**

Alexander Chang

Research Mentor: Dr. Eren Ozguven

## **The Role of Basic Heritage Language Courses in Acquiring and Maintaining the Spanish Language**

Avie Montoya

Research Mentor: Dr. Estrella Rodriguez

## **Motivation to Take Political Action**

Chelsea Casabona

Research Mentor: Ms. Daniella Krusemark

## **How Top-tier Research Institutions Affect the Surrounding Economy**

Connor Sherman

Research Mentor: Dr. Shawn Kantor

## **Better Dead Than Red: A Twentieth Century Crusade for Christ and Against Communism**

Emma Bernstine

Research Mentor: Dr. Daniel Wells

**Making up War in Cote d'Ivoire: Politics, Religion, and Conflict in West Africa**

Georgina Patient

Research Mentor: Dr. Joseph Hellweg

**Symbols of White Supremacy: The Relationship between Monuments to the Confederacy and Hate Crimes Guissella**

Cruz Research

Mentor: Dr. Brendan Lantz

**Aggress to impress: Waging political aggression so as to gain favor with the political ingroup**

Jose Cruz

Research Mentor: Mr. Doug Kievit

**The PURPOSE of Mentorships: A Program Evaluation**

Madison Resnick

Research Mentor: Mr. Erik Rawls

**Resilience in International Students Maya Gummaraju Research**

**Mentor: Dr. Karen Oehme Educating Digital Citizens: A Review of Curricula**

Thomas Lovegren

Research Mentor: Dr. Vanessa Dennen

**Allegations of Communist Infiltration of US Religious Organizations, 1953-1962**

Thomas Ossi

Research Mentor: Dr. Michael McVicar

**Researching Applications of NKA Frameworks in Social Media Environments**

Victor Arechavaleta

Research Mentor: Dr. Vanessa Dennen