

# 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

Sharing Event 1, 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

Sharing Event 2, 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 Nemeč

**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

Sharing Event 3, 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

Sharing Event 4, 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

Sharing Event 6, 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

Sharing Event 8, 6:45 - 7:45 pm

Leaders Anna Hale & Caleb Stephens, Business

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

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## **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

Sharing Event 7, 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

Sharing Event 5, 6:45 - 7:45 pm

Leaders Emma Chapman & Alexander Adams, Social Science, Languages

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

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## **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