

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.

You are invited to join us throughout the week of April 6 as current undergraduate researchers present their posters virtually for the virtual **2020 Undergraduate Research Symposium!** Through the Facebook event page, we will share the time for each presentation session, the 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 Wednesday, April 8th

Monday, April 6th sessions

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

Wednesday, April 8th

4:00 - 5:00 pm

Leaders Adaeze Nwigwe & Isis Porta, Biology

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

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 YbAl₃ 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

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

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

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

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

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