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/ursababstract20

**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 Primozic, Social Science & Psychology

https://fsu.zoom.us/j/677655758
bit.ly/ursababstract20

**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

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bit.ly/ursababstract20

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

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bit.ly/ursababstract20

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 Côte 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 Latturner

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

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bit.ly/ursababstract20

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