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 **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 Tuesday, April 7th

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

3:35 - 4:35 pm

Leaders Hana Grubb & Maria Quintana, Biochemistry

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

5:15 - 6:15 pm

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

https://fsu.zoom.us/j/419115199 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 Latturner

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

5:15 - 6:15 pm

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

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

5:15 - 6:15 pm

Leaders Elias Larralde & Sergio Carlos Tamez, Humanities

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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

5:15 - 6:15 pm

Leaders Maegan Nation & Jennifer Poggio, Social Sience & Psychology

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

6:45 - 7:45 pm

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

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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 Latturner

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

6:45 - 7:45 pm

Leaders Kemp Gonzalez-Xu & Justin Stow, Hard Sciences

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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 -> Omega + Proton

Ryan Goodrich

Research Mentor: Mr. Edmundo Barriga

Study on the Reaction Photon + Proton -> eta' + Proton

Shelby Arrigo

Research Mentor: Mr. Edmundo Barriga

Reverse Engineering with Ghidra

Supriya Palli

Research Mentor: Dr. Charalambos Konstantinou

6:45 - 7:45 pm

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

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Review of the Development of Thermal Manikins

Cary Wong

Research Mentor: Dr. Meredith McQuerry

Analysis of Benthos Survivablity 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

esearch 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