

STUDENT RESEARCH & CREATIVE ACTIVITY SYMPOSIUM 2021

Recognizing the Pursuit of Research,
Scholarship and Creative Activities
by Our Students

Friday | March 12, 2021

9:00 am – 11:00 am via Zoom



STUDENT RESEARCH CENTER
SACRAMENTO STATE



*Presented by: Academic Affairs, The Student Research Center,
and The Offices of Research, Innovation, and Economic Development*

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Professor of Biological Sciences Interim Director, Student Research Center	
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Event Schedule

Friday, March 12, 2021

9:00 a.m. – 11:00 a.m. All sessions running concurrently.



Message from Dr. Yvonne Harris

Associate Vice President, Offices of Research, Innovation, and Economic Development

“Research is formalized curiosity. It is poking and prying with a purpose. It is a seeking that he who wishes may know the cosmic secrets of the world and they that dwell therein.”—Zora Neale Hurston



Many know Zora Neale Hurston for her literary works such as *Tell My Horse* (1938), *Mules and Men* (1935), and *Their Eyes Were Watching God* (1937). She was a powerful writer and an African American literary giant of her time. But few knew her as a scientist and researcher.

From 1921 to 1924, Ms. Hurston attended Howard University. She won a scholarship to attend Barnard College and studying under the distinguished scholar Franz Boas she received her B.A. in anthropology. After graduating from Barnard, she attended Columbia University where she continued her graduate studies in anthropology. Ms. Hurston received several grants and fellowships that financed years of her anthropological research.

Ms. Hurston was an ethnographic researcher able to use her research to shape the lens through which she saw the world. She fused her discoveries and observations with her literary explorations. She was a shero of mine and I pursued research with the hopes of seeing the world with more clarity. I applaud your research and creative activities knowing that you are the future and that your work may reveal cosmic secrets of the world and we who dwell therein. Your research, therefore, is important because It not only shapes your eyes but the eyes of others and, in that way, changes the world.

Yvonne Harris, Ph.D
*Associate Vice President,
Offices of Research, Innovation, and Economic Development*

Message from Dr. Ronald Coleman

Professor of Biological Sciences, Interim Director, The Student Research Center

On behalf of the Student Research Center, Academic Affairs, and the Office of Research, Innovation, and Economic Development (ORIED), we welcome you to the 2021 Sacramento State Student Research & Creative Activity Spring Symposium. This campus-wide event highlights and celebrates the research, scholarship, and creative activities of our students and their faculty mentors. The Spring Symposium provides a public forum for their work as well as an exciting experience for all. In addition, Spring Symposium winners are selected to represent Sacramento State at the 35th CSU Student Research Competition.

At this year's event, approximately 80 students are presenting their original scholarly works. The top presentations will be awarded the Provost's Award for Research Excellence in recognition of their outstanding achievement in original scholarship. In addition, their faculty mentors will receive professional development awards in recognition of their contributions to these emerging scholars. We will also select up to 10 students to represent Sacramento State at the 35th CSU Student Research Competition, which will be held virtually at Cal Poly Pomona on April 30-May 1, 2021.

This has been a challenging year, so we are thrilled to have so many students rise to that challenge and present their research. Each of you has shown tremendous resolve and resilience. Congratulations!

Thank you to all student presenters for sharing their work and to faculty, staff, family and friends of our presenters for supporting them for this special event. It gives us great pride to celebrate these emerging scholars and their work.

Ronald Coleman, Ph.D
Professor of Biological Sciences
Interim Director, Student Research Center

Q&A Schedule

Please note: All sessions will begin at 9:00 a.m. on Friday, March 12, 2021.

* = Student will not be participating in the Q&A.

SESSION 1

Arts & Letters

- 9:05** **Kelly Cullity***
Graduate, History
"A Keg of Dynamite with a One-Inch Fuse": The Marginalization of Vietnamese Refugees in Orange County, California, 1978-1982
- 9:15** **Kevin Ozomaro**
Graduate, Communication Studies
Social Movement Pluralism: An Examination of Stockton Stands with Minneapolis
- 9:25** **Kelsey Coutts***
Undergraduate, Music
The Mother's Voice in the Anti-War Music of World War I
- 9:35** **Genesis Torres**
Undergraduate, Art
The Relation of Color
- 9:45** **BREAK**
- 9:55** **Elizabeth Ruyak**
Graduate, Communication Studies
Bob Dylan: An Ever-Present Ghost of Our Past, Present, and Yet to Come
- 10:05** **Ines Paumelle**
Undergraduate, Design
Growing Sacramento
- 10:15** **Mikaela Huang**
Graduate, English
Tracing the Implications of Homoeroticism in Henry James's Washington Square
- END OF SESSION**

SESSION 2

Arts & Letters

- 9:05** **Ryan Woodall**
Graduate, World Languages and Literature
Creating Distance: A Comparison of Francisco Delicado's El Retrato de la Lozana Andaluza and Laura Restrepo's La novia oscura
- 9:15** **Alexander Gutto**
Undergraduate, English
The Unruly Rhetoric of Occupy Wall Street
- 9:25** **Hunter Kiley**
Undergraduate, Art
Public Health and Public Mourning: Receptivity in Bertoldo di Giovanni's The Murder of Giuliano I de' Medici (The Pazzi Conspiracy Medal)
- 9:35** **Ryan Hardy**
Undergraduate, Design
Outside Lands User Experience
- 9:45** **BREAK**
- 9:55** **Andrea Yarletz**
Graduate, Communication Studies
How the Black Lives Matter Movement Communicates empathy, division, and raises awareness
- 10:05** **Katryn-Eliza Lopez**
Undergraduate, English
Catholic Pro-Life Rhetoric: Establishing Fetal Humanity
- 10:15** **Bethany Davis**
Graduate, Communication Studies
White guilt in Lovecraft Country: A character analysis
- 10:25** **Ryan Hardy**
Undergraduate, Design
CSUS Design Spring Showcase 2021

END OF SESSION

SESSION 3

Education

9:05

Celina Mendoza

Graduate, Graduate and Professional Studies in Education

Future Leaders: An Empowerment Training for Girls of Color to Combat Negative Stereotypes Affecting Behavioral Development and Implicit Cognition

9:15

James Acosta*

Graduate, Graduate and Professional Studies in Education

Best Practices for Using Camtasia to Produce Video Tutorials for the Classroom: A Close Reading Example

9:25

Anwyn Tompkins

Graduate, Graduate and Professional Studies in Education

Retention and Attrition Among California Teachers

9:35

BREAK

9:45

Katherine Mike

Graduate, Graduate and Professional Studies in Education

A Recommended Course of Study for Eighth Grade: Improving Student Engagement with Reading Literature through Video Book Trailers

9:55

Jennifer Krebsbach

Graduate, Graduate and Professional Studies in Education

Participation by Women in Behavior Analytic Journals

10:05

Elizabeth Delgado

Graduate, Public Policy and Administration

The Impact of Latinx Faculty and Administrators on Latinx Student Cohort Completion Rates in California Community Colleges

END OF SESSION

SESSION 4

Education

9:05

Jaycie Wildermuth

Graduate, Graduate and Professional Studies in Education
Using the Biopsychosocial Model to Address Sexual, Religious Abuse and Emphasize Sexual Wellness in Recovery

9:15

Lucia McCullough*

Graduate, Graduate and Professional Studies in Education
Impostor Phenomenon and Motivation in First-Generation Undergraduates

9:25

Kate E. M. Bosworth and Tatianna Grant

Graduates, Graduate and Professional Studies in Education
Toward Abolition: Undoing the Colonized Curriculum

9:35

BREAK

9:45

Horacio Corona Lira

Graduate, Public Policy and Administration
College Academic Probation: An Empirical Test of Whether The "Wake-Up Call" Is Working

9:55

Cheng Veu and Margaret Valenica*

Graduates, Teaching Credentials
Special Education Teacher Perceptions and Retention in Elementary School Settings

10:05

Meredith Galloway*

Graduate, Educational Leadership Doctorate
What If We Paid What It Really Cost? U.S. Teacher Pay & Teacher Attrition

END OF SESSION

SESSION 5

Biological Sciences

9:05

Scott Whitman

Graduate, Biological Sciences

*Assessing patterns of coexistence of the vernal pool tadpole shrimp (*Lepidurus packardii*) and the California tiger salamander (*Ambystoma californiense*)*

9:15

Jennifer Herrmann

Graduate, Biological Sciences

*Enrichment of precursor cells of gene amplification mutants prior to selective pressure in *Acinetobacter baylyi**

9:25

Emalee Ousley

Graduate, Biological Sciences

*Investigating the Relationship Between the Gut Microbiome and Host Thermal Tolerance in the Economically Important Red Abalone, *Haliotis rufescens**

9:35

Caitlyn Bailey

Undergraduate, Anthropology

*Nutritional Benefits of Bone Fat in Rabbits (*Leporidae*): Implications for Understanding Prehistoric Human Foraging*

9:45

BREAK

9:55

Hector Navarro

Undergraduate, Biological Sciences

*Characterization of Tiny Earth Isolate 308 and its Antibiotic Production Against the Crown Gall Pathogen *Agrobacterium tumefaciens**

10:05

Judith Anderson

Graduate, Biological Sciences

*Determining how Bisphenol F Impacts Neurodevelopmental Phenotypes in *Drosophila**

10:15

Victoria Pasmurtsev

Undergraduate, Biological Sciences

Measuring the Variability of Activity Patterns in a Simple Nervous System

END OF SESSION

SESSION 6

Biological Sciences

- 9:05** **Jason Peters**
Graduate, Biological Sciences
*Use of Environmental DNA (eDNA) sampling and quantitative polymerase chain reaction (qPCR) for the detection of emigrating juvenile fall-run Chinook salmon (*Oncorhynchus tshawytscha*)*
- 9:15** **Joy Gaines**
Graduate, Biological Sciences
*Identifying novel alleles using high-throughput sequencing for use in forensic investigation of the trafficking and poaching of American black bears (*Ursus americanus*)*
- 9:25** **Kayleigh Lampe**
Undergraduate, Biological Sciences
*Genetic Diversity of the Marine Snail *Tegula funebris* along the California Coast*
- 9:35** **Christina Garcia-Godos**
Undergraduate, Biological Sciences
*Ascertaining optimal germination conditions for the tomato *Varitome* panel of genotypes*
- 9:45** **BREAK**
- 9:55** **Jennifer Serrano**
Undergraduate, Biological Sciences
*Identification of Genes Involved in the Formation of Genomic Amplification Mutations in the soil bacterium *Acinetobacter baylyi**
- 10:05** **Shay Johnson**
Undergraduate, Biological Sciences
*Characterization of Rapid Alkalinization Factors in the moss *Physcomitrella patens**
- 10:15** **Jonathon Ammari**
Graduate, Biological Sciences
Cataloging Variability in the Nervous System: A Simple Network Approach

END OF SESSION

SESSION 7

Biological Sciences

- 9:05** **Breann Benitez**
Undergraduate, Biological Sciences
The Evolution of Mouthbrooding: Are mouthbrooder eggs different?
- 9:15** **Chloe Welch**
Graduate, Biological Sciences
*Exposure to the Environmental Toxicant Polychlorinated Biphenyl-95 Affects Courtship Behavior and Axon Guidance in *Drosophila melanogaster**
- 9:25** **Bear Waymire**
Undergraduate, Biological Sciences
Egg Size Determines Fry Size in Substrate-Spawning Cichlids
- 9:35** **Carla Beatriz Campos**
Undergraduate, Biological Sciences
*Functional anatomy of tail regeneration in the California alligator lizard, *Elgaria multicarinata**
- 9:45** **BREAK**
- 9:55** **Aliyah Penn**
Undergraduate, Biological Sciences
*Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds*
- 10:05** **Hali Rederer***
Graduate, Biological Sciences
*Pacific Herring (*Clupea Pallasii*) Egg Accumulation on Eelgrass (*Zostera Marina*) And Other Substrates in Tomales Bay, California*
- 10:15** **Angelina Tupikova**
Graduate, Biological Sciences
*Measuring the Impact of Bisphenol A on Nonassociative Learning and Memory in *Drosophila melanogaster* Using the Endoparasitoid Wasp Predator-Response Paradigm*
- 10:25** **Serena Blais**
Undergraduate, Biological Sciences
*Assessing the contemporary and future implications of ecogeographic divergence between two polyploid *Dryopteris* and their progenitors*

END OF SESSION

SESSION 8

Social Sciences & Interdisciplinary Studies

- 9:05** **Sofia Zamora Delgado**
Undergraduate, Psychology
Re-teaching Name- Face Relations to Adults Following a Brain Injury: A Pilot Study with Neurotypical College Students
- 9:15** **Bailey Rowe**
Graduate, Biological Sciences
Examining Student Perceptions of Research Authenticity in Introductory, Intermediate, and Advanced Course-Based Undergraduate Research Experiences
- 9:25** **Rachel Croopnick**
Graduate, Public Policy & Administration
Measuring the Impact of African American Faculty on the Completion Rate of an African American Male Student Cohort
- 9:35** **Joshua Williams**
Graduate, Public Policy & Administration
The Influence of Regulation on Residential Land Prices in United States Metropolitan Areas
- 9:45** **BREAK**
- 9:55** **Brittany Heuchert**
Undergraduate, Psychology
Student-Professor Relationships and Academic Motivation among College Students
- 10:05** **Giselle Sanchez**
Graduate, Public Policy & Administration
An Analysis of Latinx Student Completion Rates in the California Community Colleges
- 10:15** **Kahni James**
Graduate, Business Administration
The Redemption of Abusive Supervisors in the Eyes of Their Subordinates over Time

END OF SESSION

SESSION 9

Social Sciences & Interdisciplinary Studies

- 9:05** **Sachary Joy Pineda***
Undergraduate, Environmental Studies
Behind the Meaning of Filipino Pancit
- 9:15** **Yvette Mends**
Undergraduate, Family & Consumer Sciences
The Relationship between Cooking Proficiency and College Student Eating Behaviors
- 9:25** **Katherine Camsuzou**
Graduate, Psychology
Comparing Grading Criteria for Readiness Assessment Tests: Accuracy Versus Credit/No Credit
- 9:35** **Leslie Vernon and Amy Cole**
Undergraduates, Psychology
Don't Let Me Get Me: Stereotype Threat as Observed Variables
- 9:45** **BREAK**
- 9:55** **Patrick Sangeorzan, William Goodson,
Cristina Lopez, and Ashlee Wright**
Undergraduates, Psychology
Pressure: A Hierarchical Regression Examining Big-Five Traits and Other Internal Characteristics Predictive of Nonconformity
- 10:05** **Michelle Hoffman**
Graduate, Anthropology
Witching & The World Wide Web: "It's No Hocus Pocus!" An Exploration of 21st Century Instagram Witches
- 10:15** **Eric Pennino**
Undergraduate, Biological Sciences
STEM Students Anxiety and Engagement with Online Instruction during Spring and Fall Semesters of 2020

END OF SESSION

SESSION 10

Engineering, Science & Math

- 9:05** **Dmitriy Kasyanchuk**
Undergraduate, Chemistry
Novel Inhibitors of a Calcium Ion-Transport Pump in Plasmodium falciparum
- 9:15** **Erica Loza***
Graduate, Geology
Identifying Environmental Influences on Landfill Methane Emissions in Northern California
- 9:25** **Rashel Jacobo**
Undergraduate, Chemistry
Synthesis of Glycopolymers for Anti-HIV Activity
- 9:35** **BREAK**
- 9:45** **Mike Nzundi**
Graduate, Electrical and Electronic Engineering
Design, Fabrication and Testing of Broadband Curved Dipole Antenna for Wireless Communication Systems
- 9:55** **Subbiah Palani Ramalakshmanan***
Graduate, Electrical and Electronic Engineering
Clinical Study of Radio Frequency (RF) Hyperthermia as A Palliative Tool for Veterinary Cancer Patients
- 10:05** **Kevin Nzenkue**
Undergraduate, Biological Sciences
Bisphenol A Differentially Impacts Neurodevelopment in Drosophila melanogaster from Distinct Genetic Backgrounds

END OF SESSION

SESSION 11

Engineering, Science & Math

- 9:05** **Derya Asaner and Maryam Siddique**
Undergraduates, Mathematics and Statistics
Counting the Spanning Trees
- 9:15** **Enrique Villela and Brianna Davis**
Undergraduates, Mathematics and Statistics
Examining Pre-service Teachers Conceptions of Area
- 9:25** **Lily Schieberl and Lance Johnson**
Undergraduates, Mathematics and Statistics
Topological Data Analyses of U.S. Wildfires and COVID-19
- 9:35** **BREAK**
- 9:45** **Ahmed Saad**
Graduate, Electrical and Electronic Engineering
A Virtual Synchronous Generator Control Scheme for Grid-connected Inverters
- 9:55** **David Babchanik**
Undergraduate, Civil Engineering
Estimating Benefits and Costs of Stormwater Management
- 10:05** **Justin Elli**
Undergraduate, Computer Science
Knoba (A Project in Knowledge-Based Agency)

END OF SESSION

SESSION 12

Health & Human Services

- 9:05** **Hennie Weiss and Celia Snow**
Graduates, Social Work
Child Welfare and Commercially Sexually Exploited Children: Assessing for Exploitation Based on Risk Factors Using the SWAI (Social Worker Assessment Index)
- 9:15** **Bella Brown-Quigley**
Undergraduate, Communication Sciences & Disorders
Hearing Status and Cognition in Gerontology Journals
- 9:25** **Drejul Aersolon**
Graduate, Social Work
Making the Social Actually Work: A Community-Needs Assessment of Rural Transgender Californians
- 9:35** **BREAK**
- 9:45** **Anna Thut, Angela Evenich, and Cristina Lopez**
Undergraduates, Communication Sciences & Disorders
Cultural Representation Among Augmentative and Alternative (AAC) Devices
- 9:55** **Sarah Gaylord**
Graduate, Social Work
Social Isolation due to COVID-19: The Experience of College Students
- 10:05** **Anny Baker**
Graduate, Graduate and Professional Studies in Education
Social Justice within Couples Therapy
- 10:15** **Toni Sampson**
Undergraduate, Kinesiology
Ridinilazole As A Treatment for Recurrent Clostridioides difficile Infections
- END OF SESSION**

Acknowledgment

This event would not be possible without the guidance and support of our faculty mentors and staff. We would like to thank the following:

Faculty Mentors

Amber Gonzalez, *Undergraduate Studies, College of Education*

Andrew Reams, *Biological Sciences, College of Natural Sciences & Mathematics*

Angela Clark-Oates, *English, College of Arts & Letters*

Angela Leslie, *Undergraduate Studies, College of Education*

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Sonia Borg-Thepot, *Communication Studies, College of Arts & Letters*

Susanna Curry, *Social Work, College of Health & Human Services*

Staff - Student Research Center

Ronald Coleman, *Interim Director*

Hanh Tran, *Administrative Coordinator*

Anessa Forshey, *Graduate Assistant*

Important Dates

April 30 – May 1, 2021

35th Annual CSU Student Research Competition at Cal Poly Pomona

For more information, visit

csus.edu/studentresearchcenter



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