Student Research & Creative Activity Spring Symposium
Monday, March 9th, 2020

Congratulations to the 2020 Spring Symposium Awardees!

Session 1: Arts & Letters

1st place awardee: Jennifer Shaver
Queer Community in Christian Churches
Graduate, Humanities
Mentor: Harvey Stark, Ph.D

2nd place awardee: Kelly Cullity
Moral Internationalism Versus Patriotic Isolationism: An Ideological Analysis of America’s Debate on the League of Nations
Graduate, History
Mentor: Mona Siegel, Ph.D

Session 2: Engineering & Computer Science

1st place awardee: Rachael Dal Porto
The use of Rhodamine WT for the characterization of hydraulic residence times in wetlands
Undergraduate, Civil Engineering
Mentor: Cristina Poindexter, Ph.D

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2nd place awardee: **Christopher Morairty**

Optimization of Aerodynamics via Incorporation of Mechatronics
Graduate, Mechanical Engineering
Mentor: Rustin Vogt, Ph.D

**Session 3: Health & Human Services**

1st place awardee: **Valeria Gonzalez**

Preliminary Evaluation of the Suitability of Spanish-Language Hearing Aid User Guides
Undergraduate, Communication Sciences & Disorders
Mentor: Laura Gaeta, Ph.D

2nd place awardee: **Patrick Dorsey**

Reckless in the Pursuit of Fortune and Glory? The Characteristics of California's Uninsured Young Invincibles and a Strategic Approach to Increasing Health Insurance Enrollment
Graduate, Public Policy & Administration
Mentor: Robert Wassmer, Ph.D

**Session 4: Social Sciences & Interdisciplinary Studies**

1st place awardee: **Heather Fletcher**

We Built It, but Do Students Know What It Is? Student Perceptions of a Programmatic Undergraduate Research Experience
Graduate, Biological Sciences
Mentor: Kelly McDonald, Ph.D

2nd place awardee: **Bailey Rowe**

Student Perceptions of Research Authenticity in Introductory, Intermediate and Advanced Biology Laboratory Courses
Graduate, Biological Sciences
Mentor: Kelly McDonald, Ph.D

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Session 5: Biological Sciences

1st place awardees: Lillian Murphy, Alex Ceballos, Daniel Chu, Kaitlin Danziger, Jomari Gabriel, and Chloe Welch

Exposure to Hydroxylated Polybrominated Diphenyl Ethers (PBDEs) Impairs Axon Pathfinding in Wild Type Drosophila

Undergraduate, Biological Sciences

Mentor: Kimberly Mulligan, Ph.D

2nd place awardees: (tied for 2nd place)

Ethan Roberts

Burrows created by an ecosystem engineer improve survivorship of intertidal invertebrates

Undergraduate, Biological Sciences

Mentor: Timothy Davidson, Ph.D

Leigh Sanders

Phylogeny of Central American Heroine Cichlid Fishes

Undergraduate, Biological Sciences

Mentor: Ron Coleman, Ph.D

Ayesha Shabbir

Optimization of reversion assay to elucidate gene amplification mutations in Acinetobacter baylyi

Undergraduate, Biological Sciences

Mentor: Andrew Reams, Ph.D

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Session 6: Biological Sciences

1st place awardees: **Chloe Welch, Brendan Tinsley, Yomira Palacios, Alex Ceballos, Jacqueline Stein, and Daniel Chu**

Bisphenol-A Exposure Differentially Impairs Neurodevelopmental Phenotypes in Wild Type *Drosophila* and in a *Drosophila* model of Fragile X Syndrome

Graduate, Biological Sciences

Mentor: Kimberly Mulligan, Ph.D

2nd place awardee: **Nathalie Mendoza**

A quantitative study of cranial shape in a rat model for Down syndrome

Undergraduate, Anthropology

Mentor: Nandini Singh, Ph.D

Session 7: Business Administration

No awardee.

Session 8: Education

1st place awardee: **Meredith Galloway**

The Policies of Promise: What Policy Variables Impact Outcomes Equity for California Community College Students?

Graduate, Educational Leadership Doctorate

Mentor: Robert Wassmer, Ph.D

2nd place awardee: **Kendra Duncan**

Female STEM Role Model Curriculum Impact on Middle School Students

Graduate, Education

Mentor: Sherrie Carinci, Ed.D and Corinne Lardy, Ph.D

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Session 9: Physical Sciences & Mathematics

1st place awardee: Anthony Perez

Synthesis of Non-Native Oligomeric Sugars for Biomedical Applications
Undergraduate, Chemistry
Mentor: Katherine McReynolds, Ph.D

2nd place awardees: (tied for 2nd place)

Brandon Thomas

Modeling Electron Capture in Simulated 3-D Semiconductor Detector
Undergraduate, Physics & Astronomy
Mentor: Matt Block, Ph.D and Josh Moss, Ph.D

Herminio Carrillo

Off Axis Short Gamma-Ray Bursts and Their Afterglow Properties
Undergraduate, Physics & Astronomy
Mentor: Rodolfo Barniol Duran, Ph.D

The End