



STUDENT RESEARCH CENTER
SACRAMENTO STATE

2022 Student Research & Creative Activity Spring Symposium

March 7, 2022 | University Union | 9:00 a.m. – 1:30 p.m.

Competition Results

Session 1: Arts & Letters

- **First prize:** **Anastasia Thompson**, *The Art of Death: A Look into the Lost Seventeenth-Century Baroque Polish Art of the Portret Trumienny – Coffin Portraits*
Art History, Undergraduate
Faculty Mentor: Rachel Miller
- **Second prize:** **Ethan Hekker**, *Who's to Blame for This? Free Will Skepticism and the Error of Punitive Justice*
Philosophy, Undergraduate
Faculty Mentors: John Park and Garret Merriam

Session 2: Arts & Letters

- **First prize:** **Mikaela Huang**, *Structuralism in Literary Studies and the Role That It Plays in 2022*
English, Graduate
Faculty Mentor: Jonas Cope
- **Second prize:** **Caitlyn Le**, *Examining the Impact of a Class Hierarchy in America*
English, Undergraduate
Faculty Mentor: Hellen Lee

Session 3: Biological Sciences

- **First prize:** **Abigail McInnes**, *Investigating the Relationship between Aggression and Longevity in Fruit Flies*
Biological Sciences and Chemistry, Undergraduate
Faculty Mentor: Johannes Bauer
- **Second prize:** **Olivia Sinclair**, *The Effect of Egg Size and Female Parent Body Size on Fecundity in Substrate Spawning Cichlids in the Wild*
Biological Sciences, Graduate
Faculty Mentor: Ronald Coleman

Session 4: Biological Sciences

- **First prize:** **Staci Rocco**, *Analyzing the Early and Subsequent Events of Gene Amplification Mutation Formation Using a Model System in *Acinetobacter baylyi**
Biological Sciences, Undergraduate



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Faculty Mentor: Andrew Reams

- **Second prize: Joseph Yull**, *Bisphenol A Differentially Impacts Neurodevelopment in *Drosophila melanogaster* from Distinct Genetic Backgrounds*
Biological Sciences, Graduate
Faculty Mentor: Kimberly Mulligan

Session 5: Engineering, Science & Math

- **First prize: Alexander Ryan**, *Injection Stratigraphy in the West Area of the Cat Canyon Oil Field, California*
Geology, Undergraduate
Faculty Mentor: David Shimabukuro
- **Second prize: Adam Clapp**, *Engineering Taxadiene Synthase for Improved Product Specificity to Enable a Microbial Host for Taxol Production*
Chemistry, Undergraduate
Faculty Mentor: Mary McCarthy-Hintz

Session 6: Engineering, Science & Math

- **First prize: Laura Glaser**, *3-D Modeling of Stratigraphy and Injection in the Cat Canyon Oil Field, California*
Geology, Undergraduate
Faculty Mentor: David Shimabukuro
- **Second prize: Ethan Dreger**, *Analyzing the Effects of Pluton Size and Composition on Schlieren-Bound Magmatic Structures in the Sierra Nevada, California*
Geology, Undergraduate
Faculty Mentor: Katie Ardill
- **Second prize: Harjeet Gill**, *Effect of Sample Alignment on Porosity Development and Mechanical Properties During Selective Laser Melting (SLM)*
Mechanical Engineering, Alumnus
Faculty Mentor: Alan Meier

Session 7: Social Sciences & Interdisciplinary Studies

- **First prize: Ethan Roberts**, *Discussing Differences: A Simple Activity to Foster Faculty Collaborations Across Diverse Disciplines and Institutions*
Biological Sciences, Graduate
Faculty Mentors: Kelly McDonald, Cathy Ishikawa, and Bailey Von der Mehden
- **Second prize: Eric Pennino**, *Demystifying Undergraduate Research Experiences to Increase Access and Equity for Four-Year and Community College Students*
Biological Sciences, Graduate
Faculty Mentor: Kelly McDonald



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Session 8: Social Sciences & Interdisciplinary Studies

- **First prize:** **Shelby Chandar and Ryan Crum**, *Examining Faculty Use of Inclusive and Equitable Language Through the Lens of Course Syllabi*
Kinesiology and Biological Sciences, Undergraduates
Faculty Mentors: Sayonita Ghosh Hajra, Cathy Ishikawa, and Kelly McDonald
- **Second prize:** **Ryan Harris**, *Impact of Scientist Spotlights in Bio2*
Mathematics and Statistics, Graduate
Faculty Mentor: Joya Mukerji

Session 9: Education

- **First prize:** **Prisila Isais**, *Immigrant Parent Engagement*
Doctorate in Educational Leadership, Graduate
Faculty Mentor: Amber Gonzalez
- **Second prize:** **Erica Walthall**, *Exploring How Preschool Students with Disabilities Engage with Books That Feature Racially Diverse Characters*
Teaching Credentials, Graduate
Faculty Mentor: Eric Claravall

Session 10: Health & Human Services

- **First prize:** **Samantha Conway**, *Acute Physical Therapy Management of An Individual Following Posterior Fossa Hemangioblastoma Resection in The Context of Von-Hippel Lindau Disease*
Physical Therapy, Graduate
Faculty Mentor: Katrin Mattern-Baxter
- **Second prize:** **Lauren Achen, Melissa Abramson, Alex Douglas, and Megan Rogers**, *Effects of Communication and Language Problems on Anxiety and Depression Symptoms in TBI Patients Post-Injury*
Communication Sciences & Disorders, Undergraduates
Faculty Mentor: Tonia Davis

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