Category 1: Engineering, Science & Math

2nd Place Undergraduate Winner:

Emergency Services Interoperability

Diehl, Cory

Undergraduate, Electrical and Electronic Engineering

Mentor: Russ Tatro, PhD

1st Place Undergraduate Winner:

Coloring the Integers: Pseudo Progressions and Ramsey Theory

Throckmorton, Morgan

Undergraduate, Mathematics

Mentor: Jay Cummings, PhD

1st Place Graduate Winner:

Carbon Sequestration in a Microalgae Photobioreactor

Hagen, Timothy

Graduate, Mechanical Engineering

Mentor: Farshid Zabihian, PhD
Category 2: Arts & Letters

2nd Place Undergraduate Winner:

Spolia from the Templo Mayor and the Processes of Spanish Colonialism

Casey, Belinda
Undergraduate, Art History
Mentor: Rachel Miller, PhD

1st Place Undergraduate Winner:

The Creation of an Impreza: The Symbolic Link Between Lorenzo de' Medici and the Florentine Giraffe

Roseberry, Merrill
Undergraduate, Art
Mentor: Rachel Miller, PhD

1st Place Graduate Winner:

Rewriting Experiences of Trauma: Narrative Fragmentation and the Imagined Nation in Kamila Shamsie’s Kartography

Thomas, Ashley
Graduate, English
Mentor: Torsa Ghosal, PhD
Category 3: Health & Human Services

1st Place Graduate Winner:

THERAPEUTIC INTERVENTION FOR A 3-YEAR-OLD GIRL WITH CASK GENETIC DISORDER

McCandless, Cathryn
Graduate, Physical Therapy
Mentor: Katrin Mattern-Baxter, PhD

Category 4: Education, Social Sciences & Interdisciplinary Studies

2nd Place Undergraduate Winner:

A Longitudinal Investigation of Personality as a Predictor of Vigorous Exercise Using a Two-Part Mixed-Effects Model

Sanchez, Vanessa with Meghan Snipes
Undergraduate, Psychology
Mentor: Melissa McTernan, PhD

1st Place Undergraduate Winner:

Companion planting as an understory restoration strategy along the American River

Mir, Moiz
Undergraduate, Environmental Studies
Mentor: Michelle Stevens, PhD
1st Place Graduate Winner:

Oh, The Places You'll Go!: Power and Public Restrooms

Bruffett, Deborah
Graduate, Anthropology
Mentor: Michael Walker, PhD

Category 5: Biological Sciences

2nd Place Undergraduate Winner:

The Autism-Associated Chromatin Modifier, Chromodomain Helicase DNA Binding Protein 8/kismet, Affects Axon Guidance and Behavioral Phenotypes in Drosophila melanogaster

Welch, Chloe
Undergraduate, Biological Sciences
Mentor: Kimberly Mulligan, PhD

1st Place Undergraduate Winner:

It's not the heat, it's the humidity: burrow microhabitats created by a boring crustacean ameliorate stressful conditions in the intertidal

Roberts, Ethan
Undergraduate, Biological Sciences
Mentor: Timothy Davidson, PhD
2nd Place Graduate Winner:

Analysis of Pre-Sequencing Methodologies for Determining Bacterial Species and Relative Abundance in Gut and Skin Microbiome Communities

Truong, Catalina

Graduate, Biological Sciences

Mentor: Robert Crawford, PhD

1st Place Graduate Winner:

Determining if Bisphenol A Confers Risk of Autism using Drosophila melanogaster as a Model

Tinsley, Brendan

Graduate, Biological Sciences

Mentor: Kimberly Mulligan, PhD
Below is a list of 10 students who will be representing Sacramento State at the 33rd CSU Research Competition taking place on April 26-27 at California State University, Fullerton:

Morgan Throckmorton – Mathematics
Timothy Hagen – Mechanical Engineering
Merrill Roseberry – Art
Ashley Thomas – English
Cathryn McCandless – Physical Therapy
Moiz Mir – Environmental Studies
Deborah Bruffett – Anthropology
Chloe Welch – Biology
Ethan Roberts – Biology
Brendan Tinsley – Biology