## Event Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30-3:15 PM</td>
<td>Participation Check-In</td>
<td>Markstein Hall Lobby</td>
</tr>
<tr>
<td>3:30-5:30 PM</td>
<td>Student Presentations</td>
<td>Markstein Hall, various locations</td>
</tr>
<tr>
<td>5:30-6:00 PM</td>
<td>Refreshments</td>
<td>Markstein Hall Lobby</td>
</tr>
<tr>
<td>6:00-7:00 PM</td>
<td>Awards Ceremony</td>
<td>Markstein Hall 125</td>
</tr>
</tbody>
</table>

Welcome, Remarks, Kerri Mowen Excellence in Faculty Mentoring Awards Recipient, & Finalists Announced

President Ellen Neufeldt

Interim Provost, Ranjeeta Basu

Interim Dean of Graduate Studies & Research, Chuck De Leone

CUGR Faculty Fellow, Dr. Robert Iafe
## Sessions Overview

| Session 1 | Behavioral and Social Sciences  
Undergraduates  
Location: Markstein Hall 101 |
|------------|--------------------------------------------------|
| Session 2 | Behavioral and Social Sciences  
Undergraduates and Graduates  
Location: Markstein Hall 102 |
| Session 3 | Biology, Biochemistry, and Chemistry  
Undergraduates  
Location: Markstein Hall 103 |
| Session 4 | Biology, Biochemistry, and Chemistry  
Undergraduates  
Location: Markstein Hall 105 |
| Session 5 | Biology, Biochemistry, and Chemistry  
Undergraduates  
Location: Markstein Hall 107 |
| Session 6 | Biology and Kinesiology  
Undergraduates and Graduates  
Location: Markstein Hall 201 |
| Session 7 | Humanities  
Undergraduates  
Location: Markstein Hall 208 |

### Session 1

- **Behavioral and Social Sciences, Undergraduates**  
  Location: Markstein Hall 101

  - **3:45-4:00 PM**  
    - **Jayline Martinez**  
    - The Effects of Acculturative Stress on the Developmental Milestones

  - **4:00-4:15 PM**  
    - **Marielle Castaneda**  
    - Social Norms and Recycling Behavior

  - **4:15-4:30 PM**  
    - **Miriam S. Bautista**  
    - The Influence of Stereotype Threat on Performance and Emotion Regulation among Racial-Ethnic Minorities in Competitive Gaming

  - **4:30-4:45 PM**  
    - **Break**

  - **4:45-5:00 PM**  
    - **Jordan Carroll**  
    - The Role of Sensory Cues in the Modulation of Maternal Aggression in Lactating Dams.

  - **5:00-5:15 PM**  
    - **Nancy Moreno**  
    - Affirmation Interventions on Identity Balance

  - **5:15-5:30 PM**  
    - **Kianna Avilez**  
    - Effectiveness of Bilingual Instruction Training at Sustaining a Strong Bilingual Teacher Identity
### Session 2

**Behavioral and Social Sciences, Undergraduates and Graduates**  
Location: Markstein Hall 102

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30-3:45 PM</td>
<td>Kyra Terry</td>
<td>Increasing Identification with Computer Science While Sustaining Gender Identity among High School Girls</td>
</tr>
<tr>
<td>3:45-4:00 PM</td>
<td>Thomas Smelter</td>
<td>Thinking About Truthfulness During Initial Exposure Reduces the Effects of Prior Exposure on Perceived Accuracy of News Headlines</td>
</tr>
<tr>
<td>4:00-4:15 PM</td>
<td>Cheyenne Bates</td>
<td>Association between Parental Depression and Preschool-Aged Children’s Irritability and Sleep</td>
</tr>
<tr>
<td>4:15-4:30 PM</td>
<td>Janet Martínez</td>
<td>Food Insecurity and Its Impact on Children’s Math Abilities</td>
</tr>
<tr>
<td>4:30-4:45 PM</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>4:45-5:00 PM</td>
<td>Rosa Hunt</td>
<td>Was it you, the other Zazz, or that Flurp? Children's Moral Evaluation of Self-Serving and Prosocial Lies in the Context of Social Groups.</td>
</tr>
<tr>
<td>5:00-5:15 PM</td>
<td>Elizabeth Ochoa Sierra</td>
<td>The Relationship Between Acculturation and Vocal Emotional Expression in Children of Mexican Descent</td>
</tr>
<tr>
<td>5:15-5:30 PM</td>
<td>Ashley Bonilla</td>
<td>Goal Affordances in STEM</td>
</tr>
</tbody>
</table>

### Session 3

**Biology, Biochemistry, and Chemistry, Undergraduates**  
Location: Markstein Hall 103

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00-4:15 PM</td>
<td>Mary Nguyen and Emily Huynh</td>
<td>Organ culture of Japanese quail (Coturnix japonica) testis for in vitro spermatogenesis</td>
</tr>
<tr>
<td>4:15-4:30 PM</td>
<td>Karen Ngo</td>
<td>Aggregation of HEK 293 Tumorigenic Cell Line Using Sound Waves of Varying Frequencies</td>
</tr>
<tr>
<td>4:30-4:45 PM</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>4:45-5:00 PM</td>
<td>Cristina Ford</td>
<td>CRISPR/Cas9-mediated mutagenesis of tandem gene arrays in Arabidopsis thaliana</td>
</tr>
<tr>
<td>5:00-5:15 PM</td>
<td>Jeff Jaureguy</td>
<td>Genome Assembly and Annotation of the Predatory Lady Beetle Hippodamia Convergens</td>
</tr>
<tr>
<td>5:15-5:30 PM</td>
<td>Diego Orea</td>
<td>Viability, Growth and Reproduction of Heligmosomoides bakeri During a Secondary Infection of a Host Treated with Rapamycin</td>
</tr>
</tbody>
</table>
**Session 4**

**Biology, Biochemistry, and Chemistry, Undergraduates**
**Location:** Markstein Hall 105

### 3:45-4:00 PM
**Thuy Tran**  
Establishing Antibiotic Susceptibility of Mycobacterium marinum

### 4:00-4:15 PM
**David Castro**  
Environmental Conditions of Variable Nitrogen and Light Levels Effect the Expression of Genes in Microcoleus anatolicus

### 4:15-4:30 PM
**Sergio Serrato-Arroyo**  
Determining if the K(3) Herbicide Cafenstrole affects Alkenone Biosynthesis in Emiliania huxleyi

### 4:30-4:45 PM
**Break**

### 4:45-5:00 PM
**Thi Huynh**  
Red Light-Blue Light: Alkenone Production in Isochrysis galbana is Enhanced by Red Light, while Growth is Optimal Under Blue/Violet Light

### 5:00-5:15 PM
**Yesenia Mora**  
The Effect of "Wing-Flashing" Behavior on Prey Capture Efficiency in San Clemente Loggerhead Shrikes

### 5:15-5:30 PM
**Christopher Smith**  
Is Epigenetics Involved in the Regulation of Biomineralization in Emiliania huxleyi

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**Session 5**

**Biology, Biochemistry, and Chemistry, Undergraduates**
**Location:** Markstein Hall 107

### 3:30-3:45 PM
**Sophia Hernandez**  
Investigating the Role of RAD27 Gene in CCTG Repeat Instability Via CRISPR-Cas9

### 3:45-4:00 PM
**Dennis Zanesco**  
Establishment of Coastal Microbe Culturing, Strain Collection, and Analytical Techniques with the Purpose of Developing a Coastal Microbial Community Standard

### 4:00-4:15 PM
**Anahita Rahimi**  
An Effective Lysis and Mobile Element Capture Method to Analyze the Antibiotic Resistome of Coastal Microbial Communities

### 4:15-4:30 PM
**Ebony Stretch**  
Development of a simple and streamlined bioinformatics pipeline to extract custom database sequences from next-generation sequencing data.

### 4:30-4:45 PM
**Break**

### 4:45-5:00 PM
**Emily Lyon**  
A microwave assisted gold-catalyzed substitution reaction of benzylic alcohols with benzimidazole

### 5:00-5:15 PM
**Roberto Leon Baxin**  
Advancements in the Synthesis of BINOL-Derived Bisphosphorylimides
Session 6

Biology and Kinesiology, Undergraduates and Graduates
Location: Markstein Hall 201

3:45-4:00 PM  Luis Munoz and Michael Sweeney
The role of IL1RL2 in IL-36 cytokine reception and function by dendritic epidermal T cells

4:00-4:15 PM  Taylor Darby
The effects of α-MSH on dendritic epidermal T cell activation and function

4:15-4:30 PM  Cedric Lansangan
Do Introns Exacerbate Transcription-Associated Mutagenesis in Budding Yeast?

4:30-4:45 PM  Break

4:45-5:00 PM  Cassidy Cooper
The Thermal Physiology and Metabolic Rates of Archocentrus nigrofasciatus Acclimated to a Large Daily Temperature Fluctuation Reflects its Success as an Invasive Species

5:00-5:15 PM  Jamie DeRevere
The effect of Ethnicity on Changes in Cardiorespiratory Fitness in Response to Short-Term High Intensity Interval Training (HIIT)

5:15-5:30 PM  Rasmus D. Clausen
A Similar perceptual responses to reduced exertion high intensity interval training (REHIT) in adults differing in cardiorespiratory fitness

Session 7

Humanities, Undergraduates
Location: Markstein Hall 208

3:45-4:00 PM  Yvette Conde
Ethnic Country of Origin and Class Standing in the United States

4:00-4:15 PM  Lynda Vernia
“Letters to The Editor” and the Suez Crisis: Linking British Public Opinion to the Rejection of British Imperialism

4:15-4:30 PM  Joseph Esparza
Revising Birmingham: The Natural Law and Just War Traditions in Martin Luther King Jr’s Letter From a Birmingham Jail

4:30-4:45 PM  Break

4:45-5:00 PM  Andrea Lujan
This Is America

5:00-5:15 PM  Brandon Patterson
Necessity and Freedom

5:15-5:30 PM  Sarah Bricke
Undines at the Salton Sea
About the CSU Student Research Competition

Each spring California State University hosts the CSU Student Research Competition at one of its 23 campuses. The purpose of the event is to promote excellence in undergraduate and graduate scholarly research and creative activity by recognizing outstanding student accomplishments. Each campus holds its own competition to select up to ten student research presentations to send to the statewide competition. Finalists in the campus competition receive cash awards and travel resources to compete at the statewide competition in late April.

This year’s Symposium finalists will travel to the CSU Statewide Student Research Competition at California State University, East Bay on April 24th and 25th. Finalists in the CSU Student Research Competition receive certificates of recognition and cash awards.

Acknowledgements

We would like to acknowledge and thank all the participants, judges, faculty sponsors, community members, and room moderators for their participation.

Below is a listing of all academic programs that participated today:

- Arts
- Biological Sciences
- Biotechnology
- Chemistry & Biochemistry
- Communication
- History
- Kinesiology
- Political Science
- Psychology Sciences
- Sociology

Thank you to our Prep Session Presenter who helped prepare our students for today’s event:

Dr. Raymond Malfavon-Borja
Assistant Director, TRIO McNair Scholars Program

2019 CSUSM Finalists
Congratulations to Rosa Hunt for earning second place.

For more information on different research opportunities and travel resources visit www.csusm.edu/gsr/student/src.html

Symposium on Student Research, Creative Activities, and Innovation

Office of Graduate Studies and Research | Committee for Undergraduate Research