34th ANNUAL

CSUSB Student Research Competition

February 7th, 2020
Office of Student Research
Dear Colleagues and Students,

It is with great pleasure that I welcome the students and faculty of California State University, San Bernardino (CSUSB) to the 34th annual CSUSB Student Research Competition. The CSUSB Student Research Competition provides our undergraduate and graduate students with a unique opportunity to showcase their outstanding research and creative activities and compete to represent our campus at the 34th Annual California State University Student Research Competition. This year’s CSU state-wide competition will be held at California State University, Monterey Bay on April 24-25th, 2020. I look forward to identifying, supporting, and accompanying the delegates who will go on to represent our campus.

I would like to thank all of the students who are participating in our competition today – your hard work is inspiring and makes our campus proud. I sincerely hope that today’s conference attendees enjoy our students’ presentations, take pride in their efforts, and offer them congratulations on their successes. I would also like to extend sincere gratitude to the faculty mentors and our faculty jurors who consistently go above and beyond to support our students and the activities of our office. Our continued growth and success would not be possible without your passion, generosity, and commitment.

Thank you all for your support and attendance today, and I hope you will continue to participate in future Office of Student Research events.

Sincerely,
Christina M. Hassija, Ph.D.
Director, Office of Student Research
We would like to acknowledge and thank the following faculty and staff who have volunteered to serve as jurors for this year's CSUSB Student Research Competition.

**College of Arts & Letters**

Elizabeth Martin  
Gretchen Bergquist  
Esteban Cordoba  
Miriam Fernandez

**Jack H. Brown College of Business**

Benjamin Becerra  
Victoria Seitz  
Essia Hamouda

**College of Education**

Andrew Hughes  
Nicole Klimow

**College of Natural Sciences**

Daniel Nickerson  
David Maynard  
Jeremy Dodsworth  
Kassandra Harding  
Neal Malik  
Sara Callori  
Wagner Prado  
Sang Ouk Wee  
Bree Putman  
Andreas Beyersdorf

**College of Social & Behavioral Sciences**

David Mendelsohn  
Reveka Shteynberg  
Rigaud Joseph  
Stacy Forcino  
Hareem Khan

**Staff**

Jennifer Carhart  
Sen Padilla
### Presentation Schedule

#### Session 1

**Location:** College of Education 107  
**Time:** 9:30 am - 10:50 am  
**Category:** Humanities & Letters  
**Level:** Undergraduate  
**Jurors:** Gretchen Bergquist, Miriam Fernandez, & Nicole Klimow

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Faculty Mentor</th>
<th>Major</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30</td>
<td>Mariza Vasquez</td>
<td>Dr. Angela Penaredondo</td>
<td>English</td>
<td><em>The Watts Writers Workshop’s Approaches to Creative Writing Pedagogy in Safety and Transformative Justice</em></td>
</tr>
<tr>
<td>9:50</td>
<td>Donald Khairullah</td>
<td>Dr. Juan Delgado</td>
<td>English</td>
<td><em>The Seeds of Critical Creative Writing Pedagogy</em></td>
</tr>
<tr>
<td>10:10</td>
<td>Scott Romo</td>
<td>Dr. Charles Metts</td>
<td>Communication Studies</td>
<td><em>Exodus from Space: Hegemony in the Split Star Trek Fandom</em></td>
</tr>
<tr>
<td>10:30</td>
<td>Natassja Martin</td>
<td>Dr. Ryan Keating</td>
<td>History</td>
<td><em>The Memory of the War: A Glance into Public Support for WWII and Vietnam</em></td>
</tr>
</tbody>
</table>

#### Session 2

**Location:** College of Education 113  
**Time:** 9:30 am - 11:10 am  
**Category:** Humanities & Letters  
**Level:** Undergraduate  
**Jurors:** Bree Putman, Andreas Beyersdorf, & Essia Hamouda

<table>
<thead>
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<tr>
<td>9:30</td>
<td>Marmar Zakher</td>
<td>Dr. Kate Liszka</td>
<td>History/Arabic Literature</td>
<td><em>Write a Daily Example: Education in Roman Egypt as Evidenced by the Makarious Family of Kellis</em></td>
</tr>
<tr>
<td>9:50</td>
<td>Jasmine Colorado</td>
<td>Dr. Chad Luck</td>
<td>History/Literature</td>
<td><em>Queen of Peace: Decolonizing the Art, Iconography, and Legend behind the Virgin Mary of El Salvador</em></td>
</tr>
</tbody>
</table>
Presentation Schedule

10:10  Presenter: Chance Groom  
Faculty Mentor: Dr. Cary Barber  
Major: History  
Title: Religion in Republic Rome

10:30  Presenter: Giovanni Gonzalez  
Faculty Mentor: Dr. Cary Barber  
Major: Anthropology/History  
Title: Roman Egypt and the Interactions in the Eastern Frontier and with The Red Sea

10:50  Presenter: Fernando Sanchez  
Faculty Mentor: Dr. Isabel Alonso  
Major: History  
Title: Umm Kulthum and Arual Celebrity

9:50  Presenter: Sean Christopher Bonilla  
Faculty Mentor: Dr. Nicole Dabbs  
Major: Kinesiology  
Title: The Effects of Whole-Body Vibration and Fatigue on Vertical Jump Performance.

10:10  Presenters: Rachel Reyes and Nolan Mackey  
Faculty Mentor: Dr. Sang Ouk Wee  
Major: Kinesiology  
Title: Preliminary Study: Effect of Body Fat Percentage on Arterial Stiffness in Young Healthy Hispanic Males

10:30  Presenter: Robert Solano  
Faculty Mentor: Dr. Mandy Rymal  
Major: Kinesiology  
Title: The Effectiveness of a Real-time and Slow-time Observation Learning the Soccer Rainbow Kick

10:50  Presenter: Joanna Moreno  
Faculty Mentor: Dr. Christopher Hill  
Major: Kinesiology  
Title: The Power of Observations and its Effects on Imagery Capabilities

Session 3
Location: College of Education 213  
Time: 9:30 am - 11:10 am  
Category: Health, Nutrition, & Clinical Science  
Level: Undergraduate  
Jurors: Wagner Do Prado, Benjamin Becerra, & Neal Malik

9:30  Presenter: Sergio Espericueta  
Faculty Mentor: Dr. Nicole Dabbs  
Major: Kinesiology  
Title: The Effects of Whole-Body Vibration and Fatigue on Isometric Mid-Thigh Pull
Session 4

Location: College of Education 217  
Time: 9:30 am - 10:50 am  
Category: Biological & Agricultural Sciences  
Level: Undergraduate  
Jurors: Daniel Nickerson, Jeremy Dodsworth, & Kassandra Harding

9:30  Presenter: Nazaret Montejano  
      Faculty Mentor: Dr. Sanders McDougal  
      Major: Biopsychology  
      Title: MK801-Induced Locomotor Activity in Preweanling and Adolescent Male and Female Rats: Role of the Dopamine and Serotonin Systems

9:50  Presenter: Melissa Taha  
      Faculty Mentor: Drs. Ira Leifer & Don Blake  
      Major: Biochemistry  
      Title: Shaking the Ground with NASA

10:10 Presenters: Nikolay Maslov & Aaron Keniston  
      Faculty Mentor: Dr. Jeremy Mallari  
      Major: Biochemistry  
      Title: Understanding the Binding Mode of Falcilysin, an Essential Metalloprotease

10:30  Presenter: Raquel Rodriguez  
      Faculty Mentor: Dr. Laura Newcomb  
      Major: Biology  
      Title: Generation of Influenza NP-FLAG Virus to Facilitate NP Interaction Studies

Session 5

Location: College of Education 219  
Time: 9:30 am - 10:10 am  
Category: Business, Economics, & Public Administration  
Level: Undergraduate  
Jurors: Jennifer Carhart, Sen Padilla, & Esteban Cordoba

9:30  Presenter: Xuanyu Liu  
      Faculty Mentor: Dr. Xue Tian  
      Major: Supply Chain and Transportation Management  
      Title: A Comparison of Total Costs for Intermodal Transport between China and the United States – Take Los Angeles and Beijing as Example

9:50  Presenter: Edward Zakher  
      Faculty Mentor: Dr. Rishabh Kumar  
      Major: Economics  
      Title: A Reason to Move, a State-Wide Story
Presentation Schedule

Session 6

Location: College of Education 107
Time: 12:00 pm - 1:00 pm
Category: Behavioral & Social Sciences
Level: Undergraduate & Graduate
Jurors: Reveka Shteynberg, Stacy Forcino, & Benjamin Becerra

12:00  **Presenters:** Roxanna Hudgens, Areli Enriquez, Rodolfo Felix, Natalie Flores, and Courtney McGrath (UG)
**Faculty Mentor:** Dr. Paloma Villegas
**Major:** Sociology
**Title:** "I Don’t Want My Problem to Become Their Problem": Food Insecurity Stigma and CSUSB Students

12:20  **Presenter:** Cristina Sedano (G)
**Faculty Mentor:** Dr. Kevin Grisham
**Major:** Social Science and Globalization
**Title:** Sustainability and Human Impacts in Guadalajara, Mexico

12:40  **Presenters:** Elizabeth Rahmani (G) and Holly Timblin (G)
**Faculty Mentor:** Dr. Jacob Jones
**Major:** Clinical Counseling
**Title:** The Mediating Role of Leisure Activities on the Relationship Between Depressive Symptoms and Cognitive Functioning in Individuals with Parkinson's Disease

Session 7

Location: College of Education 113
Time: 12:00 pm - 12:40 pm
Category: Education
Level: Graduate
Jurors: Sang Ouk Wee, Andrew Hughes, & Rigaud Joseph

12:00  **Presenter:** Audrey Baca
**Faculty Mentor:** Dr. Nancy Acevedo-Gil
**Major:** Education Leadership
**Title:** “Now Let Us Shift”: A Case Study of Developmental Education Reform in a Hispanic Serving Community College
**Presentation Schedule**

12:20  **Presenter:** Matthew Atherton  
**Faculty Mentor:** Dr. Eun-Ok Baek  
**Major:** Instructional Technology  
**Title:** The Efficiency of Using 3d Models to Teach Lifting and Rigging Concepts to Learners of Varying Spatial Ability

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**Session 8**

**Location:** College of Education 213  
**Time:** 12:00 pm - 1:20 pm  
**Category:** Humanities & Letters  
**Level:** Graduate  
**Jurors:** Elizabeth Martin, Hareem Khan, & David Mendelsohn

12:00  **Presenter:** Shane Burrell  
**Faculty Mentor:** Mihaela Popescu  
**Major:** Communication Studies  
**Title:** Identification in Virtual Environments; Identifying in Virtual Reality

12:20  **Presenter:** Daniela Cisneros  
**Faculty Mentor:** Dr. Ahlam Muhtaseb  
**Major:** Communication Studies  
**Title:** Social Media Influence on Career Choice

12:40  **Presenter:** Ricardo Vega  
**Faculty Mentor:** Dr. Ahlam Muhtaseb  
**Major:** Communications  
**Title:** Student Learning as Influenced by Stigma and Labels

1:00  **Presenter:** Olabode Lawal  
**Faculty Mentor:** Dr. Ahlam Muhtaseb  
**Major:** Communications Studies  
**Title:** An Analysis of the Prospect Theory and its Effects on the Smoking Behaviors of College Students A Study of E-cigarettes Television Ads
Session 9

Location: College of Education 219
Time: 12:00 pm - 12:40 pm
Category: Engineering & Computer Science
Level: Undergraduate & Graduate
Jurors: Sara Callori, David Maynard, Victoria Seitz, & Essia Hamouda

12:00  Presenter: Alexis Lopez (UG)
       Faculty Mentor: Dr. Yunfei Hou
       Major: Computer Engineering
       Title: Parking Occupancy Monitoring System at CSUSB

12:20  Presenter: Sona Perez-Gamboa (G)
       Faculty Mentor: Dr. Qingquan Sun
       Major: Computer Science
       Title: Human Recognition Using a Convolutional Long Short-term Memory (C-LSTM) Neural Network.