

33RD ANNUAL

## CSUSB Student Research Competition

February 1st, 2019 Santos Manuel Student Union





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 33rd 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 33rd Annual California State University Student Research Competition. This year's CSU state-wide competition will be held at California State University, Fullerton on April 26-27th, 2019. 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 OSR events.

Sincerely,

Christina M. Hassija, Ph.D.



Thank you to the following faculty who have volunteered to serve as jurors for this year's CSUSB Student Research Competition

Dr. Dionisio Amodeo

Dr. Manijeh Badiee

Dr. Sara Callori

Dr. Steven Childs

Dr. Thomas Corrigan

Ms. Ariana Cano

Dr. Nicole Dabbs

Dr. Miriam Fernandez

Dr. Stacy Forcino

Dr. Jacob Jones

Dr. Rajrani Kalra

Dr. Jasmine Lee

Dr. Codi Lazar

Dr. Jeremy Mallari

Dr. Nerea Marteache

Dr. Elizabeth Martin

Dr. Edna Martinez

Dr. David Maynard

Dr. Miranda McIntyre

Dr. Salome Mshigeni

Dr. Sang Ouk Wee

Dr. Melika Kordrostami

Dr. Zachary Powell

Ms. Krystal Rawls

Dr. Jason Reimer

Dr. Jacqueline Romano

Dr. Wendy Smith

Dr. Jing Zhang

Dr. Renwu Zhang

## Session I

9:30

Location: RM 215 Time: 9:30-10:45

College: Natural Sciences Level: Undergraduate

Nathan Rittenhouse

Faculty Mentor: Dr. Paul Dixon

**Presenter(s):** Kendale Washington and

**Department:** Physics

**Title:** Two-Dimensional Feedback Control

& Spatio-temporal Estimation

9:50 **Presenter(s):** Ngoc Huynh and Nohemy

Celis

Faculty Mentor: Dr. Jeremy Mallari

**Department:** Biochemistry

**Title:** Validating the Antimalarial Mechanism of Action of Small Molecule Inhibitors against Falcilysin using

Conditional Knockdown Parasite Line

10:10 **Presenter(s):** Gabriel Lopez

Faculty Mentor: Dr. Corrine Johnson

**Department:** Mathematics

**Title:** *Self Assembling DNA Wheel Graphs* 

10:30 **Presenter(s):** Jennifer Gallardo

Faculty Mentor: Dr. Laura Newcomb

**Department:** Biology

**Title:** Characterizing NP Mutant

Interactions to Reveal Novel Antiviral

**Targets** 

Session 2

Location: RM 216

Time: 9:30-10:25

College: Arts and Letters

Level: Graduate

9:30 **Presenter(s):** Aida Jimenez

**Faculty Mentor:** N/A

**Department:** Communications

**Title:** *Online dating: Relationships Forming* 

PRESENTATION SCHEDULE

9:50 **Presenter(s):** Rebekah Waddell

Faculty Mentor: Dr. Ahlam Muhtaseb

**Department:** Communications

**Title:** The Benefits of Marketing with YouTube

*Influencers* 

10:10 **Presenter(s):** Loydie Burmah

Faculty Mentor: Dr. Ahlam Muhtaseb

**Department:** Communications

**Title:** They're All Going to Cancel You

Session 3  Location: RM 217  Time: 9:30-10:45  College: Natural Sciences Level: Undergraduate		Session 4  Location: RM 218  Time: 9:30-10:45  College: Arts and Letters  Level: Graduate							
						9:30	Presenter(s): Cinthia Gazca	9:30	Presenter(s): Yuyuan Chen
							Faculty Mentor: Dr. Laura Newcomb	1///	Faculty Mentor: Dr. Ahlam Muhtaseb
							<b>Department:</b> Biology		Department: Communications
							Title: Characterizing Influenza NP Protein		<b>Title:</b> Exploring the Causes of a more
	Interactions with Viral NS1 Factor		Individualistic-oriented Pattern of Chines						
			Younger Generations						
9:50	Presenter(s): Sarah Handy and Maria Ceja								
	Faculty Mentor: Dr. Tomasz Owerkowicz	9:50	Presenter(s): Heather Norwood						
	<b>Department:</b> Biology		Faculty Mentor: Dr. Mary Boland						
	Title: Skin and Bones or Just Skin?		<b>Department:</b> English Composition						
			Title: Discourse as Performance						
10:10	Presenter(s): Marvin Macharia								
	Faculty Mentor: Dr. David Rhoads	10:10	Presenter(s): Nicole Moyer						
	<b>Department:</b> Biology		Faculty Mentor: Dr. Ahlam Muhtaseb						
	Title: Cloning and Functionally Testing		<b>Department:</b> Communications						
	Agrobacterium Ilvd Genes which Encode and		Title: Vaccine Communication: Issues of						
	Enzyme in Amino Acid Biosynthesis		Institutional Trust and Health Literacy						
10:30	Presenter(s): Nikolay Maslov	10:30	Presenter(s): Jannette Arroyo						
	Faculty Mentor: Dr. Jeremy Mallari		Faculty Mentor: Dr. Ahlam Muhtaseb						
	<b>Department:</b> Biology		<b>Department:</b> Communications						
	Title: Developing Chemical Tools to		Title: Instructor Credibility: Aspects of						
	Investigate Falcilysin, an Essential		Communication that Affect Instructor						

Credibility

Metalloprotease

Location: RM 215 Time: 11:30-12:45

College: Natural Sciences Level: Undergraduate

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11:30 **Presenter(s):** Kaylie Balvaneda

Faculty Mentor: Dr. Christopher Hill

**Department:** Kinesiology

**Title:** Motivational Climates in Personal Trainer-Client Relationships: Impact of

Perceived Climate on Effort

11:50 **Presenter(s):** Sean Christopher Bonilla

Faculty Mentor: Dr. Nicole Dabbs

**Department:** Kinesiology

**Title:** Relationship among Physiological, Perceptual, and Biomechanical Variables during Exercise on a Non-Motorized Treadmill

In DII Cross-Country Athletes

**Presenter(s):** Chanel Catunao

12:10 **Faculty Mentor:** Dr. Nicole Dabbs

**Department:** Kinesiology

Title: Performance-Related Characteristics of

Elite Short Track Speed Skaters

**Presenter(s):** Elizabeth Corella

Faculty Mentor: Dr. Nicole Dabbs

12:30 **Department:** Kinesiology

**Title:** Strength Profile of Elite Short Track

Speed Skaters

Session 6

Location: RM 216 Time: 11:30-12:05

College: Natural Sciences

Level: Graduate/Undergraduate

11:30 **Presenter(s):** Jose Uribe

Faculty Mentor: Dr. Kimberley Cousins

**Department:** Chemistry

**Title:** Croconic Acid: Surface and Electric

Field influence on Deposition

11:50 **Presenter(s):** Bryan Castillo

Faculty Mentor: Dr. Sally McGill

**Department:** Geology

**Title:** Preliminary Ages of Prehistoric

Earthquakes on the Banning Strand of the San

Andreas Fault, near North Palm Springs,

California

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Location: RM 217 Time: 11:30-12:45

College: Natural Sciences Level: Undergraduate

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**Session 8** 

11:50

Location: RM 218

Time: 11:30-12:25

College: Arts and Letters/Education

Level: Graduate

11:30 **Presenter(s):** Ginny Park, Jordan Taylor, and

Jasmine Rios

Faculty Mentor: Dr. Cynthia Crawford

**Department:** Biopsychology

**Title:** Fentanyl: The Effects of Early Exposure

into Adulthood

11:50 **Presenter(s):** Matthew Burroughs, Matthew

Apodaca, and Joseph Brunch

Faculty Mentor: Dr. Jacob Jones

**Department:** Biopsychology

Title: Intraindividual Variability in

Neuropsychological Performances Predicts

Cognitive Decline in De Novo Parkinson's

Disease

12:10 **Presenter(s):** Gurnoor Kaur

Faculty Mentor: Dr. Nicole Bournias-

Vardiabasis

**Department:** Biology

**Title:** Neurotrophin Mimics Promote the

Pluripotent State of Human Embryonic Stem Cells

with Improved Clonal Survival

Presenter(s): Aries Torres and Lourdes Ceja

12:30 **Faculty Mentor:** Dr. Nicole Bournias-

Vardiabasis

**Department:** Biology

**Title:** Development of a Drosophila melanogaster

Assay to Assess the Developmental Toxicity of

Organophosphates

11:30 **Presenter(s):** Asiria Arana

**Faculty Mentor: N/A** 

**Department:** Communications

**Title:** Social Barriers of Communications of

Children with Speech Disorders

**Presenter(s):** Qi Guo, Tong Feng, and Lu Jia

Faculty Mentor: Dr. Eun-Ok Baek
Department: Instructional Technology
Title: The Effects of Mobile Application for

**English Speaking Learners** 

12:10 **Presenter(s):** Alexandra Winner Bachus

Faculty Mentor: Dr. Ahlam Muhtaseb

**Department:** Communications

Title: Religion, Control and Power Through a

Foucauldian Lens

Location: RM 215					
		Location	on: RM 216		
Time:	Time: 1:30-2:45 College: Social and Behavioral Sciences /Business		1:30-2:45		
College			e: Social and Behavioral Sciences		
/Busin			Level: Graduate		
Level:	Undergraduate				
		1.20			
1 20	Daniel (N. L. S. V. 1	1:30	Presenter(s): Sara Ledsema		
1:30	Presenter(s): Luis Velazquez		Faculty Mentor: Dr. Yvette Saavedra		
	Faculty Mentor: Dr. Daniel MacDonald		<b>Department:</b> History		
	<b>Department:</b> Economic <b>Title:</b> Effects of Unemployment on Mortality Rate		Title: Living La Mala Vida: Transgressive		
			Femininities, Morality and Nationalism in		
1.70	D ( ) All ( Cl		Mexican Los Angeles 1810-1850		
1:50	Presenter(s): Alberto Chavez	1.70	D ( ( ) M 11M 1		
	Faculty Mentor: Dr. Rishabh Kumar	1:50	Presenter(s): Mernyll Manalo		
	<b>Department:</b> Economics <b>Title:</b> <i>Mindfulness on Campus: An Analysis of the</i>		Faculty Mentor: Dr. Christina Hassija		
			<b>Department:</b> Psychology <b>Title:</b> The Role of Self-forgiveness and Self-		
	v	ectiveness of Meditation on Students at			
	California State University, San Bernardino		compassion in the Relationship between Moral		
• • •	<b>D</b> ( ) ( ) ( ) ( ) ( )		Injury and Psychological Distress among		
2:10	Presenter(s): Qinyu Zhang	OEF/OIF Military Veterans			
	Faculty Mentor: N/A	2.10			
	<b>Department:</b> Finance	2:10	Presenter(s): Elizabeth Rahmani and Mayra		
	Title: Company Research: Taobao		Barragan		
			Faculty Mentor: Dr. Jacob Jones		
2:30	Presenter(s): Michael Graham		<b>Department:</b> Psychology		
	Faculty Mentor: Dr. Rishabh Kumar		<b>Title:</b> Gastrointestinal Symptoms are Predictive		
	Department: Économics		of Trajectories of Cognitive Functioning in		
	Title: Income inequality in the U.S.		Parkinson's Disease		
	Developmental Toxicity of Organophosphates	2.20	<b>N</b> ( ) <b>N N N O O O O O O O O O O</b>		
		2:30	Presenter(s): Nelly Zambrano		
			Faculty Mentor: Dr. Dierdre Lanesskog		
			<b>Department:</b> Social Work		
	///////////////////////////////////////		<b>Title:</b> Developing a Community Plan to Prevent		
			Child Abuse & Neglect in Rural Southern		
	///////////////////////////////////////		California		

**Session 9** 

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Location: RM 217 Time: 1:30-2:25

College: Social and Behavioral Sciences

Level: Undergraduate

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1:30 **Presenter(s):** Natassja Martin

Faculty Mentor: Dr. Ryan Keating

**Department:** History

**Title:** Generations Apart: A Comparison of

Veteran's Benefits

1:50 **Presenter(s):** Valeria Cervantes and

Jacqulyne Anton

Faculty Mentor: Dr. Isabel Huacuja Alonso

**Department:** History

**Title:** Airport Noise and the Politics of Sound

in San Bernardino County

2:10 **Presenter(s):** Marmar Zakher

Faculty Mentor: Dr. Kate Liszka

**Department:** History

**Title:** The Scribes of Kellis: Greek or Coptic?

2:30 **Presenter(s):** Ciera Hammond

Faculty Mentor: Dr. Meredith Conroy

**Department:** Political Science

**Title:** The Psychology of Political Efficacy and its Unanticipated Effect on Youth Voter

**Turnout** 

## **Session 12**

Location: RM 218 Time: 1:30-2:25

College: Arts and Letters Level: Undergraduate

1:30 **Presenter(s):** Leslie Rosales

**Faculty Mentor:** N/A

**Department:** Communications **Title:** *Ending Sexual Assault* 

1:50 **Presenter(s):** Jasmine Colorado

Faculty Mentor: Dr. Chad Luck

**Department:** English

**Title:** *Queen of Peace: Exploring the art behind* 

the Virgin Mary of El Salvador

California State University, San Bernardino Office of Student Research Location: Academic Research (AR 111)

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