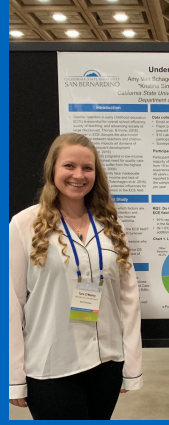


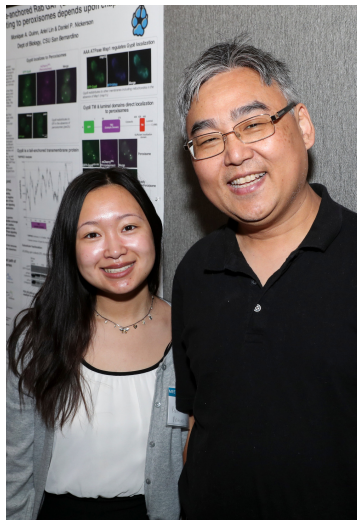
NEWSLETTER



NEWSLETTER

TABLE OF CONTENTS

- 01** Welcome
- 02** Outstanding Student Researcher Awardees
- 04** Meeting of the Minds
- 05** Faculty Mentors
- 06** Coyote Spotlight: Meryn Manalo
- 08** Student Research Competition
- 10** Leading the Pack: Dr. Jeremy Mallari
- 12** Grant Awardees
- 14** Summer Research Program
- 15** Alumni Spotlight: Ariana Cano
- 18** Students Accepted to Ph.D and Masters Programs
- 19** 2019-2020 Academic Calendar



CSUSB
OFFICE OF STUDENT RESEARCH

Academic Research (AR), 111
909-537-3728 | osr@csusb.edu
www.csusb.edu/student-research



WELCOME



Dear Campus Community,

As we conclude the 2018-2019 academic year, we at the Office of Student Research (OSR) would like to congratulate all of the students, faculty, and staff at CSUSB on another productive and successful year. We are grateful for your support of our office, and the students and faculty we serve. This year has proven to be yet another fruitful year for the OSR as we continuously strive to enhance our ability to support and recognize student and faculty research and creative activities on campus. Over the last year, we were able to award over 200 grants to support the research and creative activities of our undergraduate and graduate students and more than 260 students presented their work at our 8th annual 'Meeting of the Minds' student research symposium.

In this issue of the OSR newsletter, I am so excited to share with you just a few of the many recent accomplishments of our student researchers. Our newsletter highlights three exceptional students who have been active in research activities and are headed off to graduate programs this fall; Alana Muller (p.2), Gabriel Lopez (p.3), and Mernyll Manalo (p.6). In addition, this past year eleven

students represented our campus at the system-wide CSU Student Research Competition in Fullerton (p.8), an event which promotes excellence in scholarly research and creative activity and outstanding student accomplishments. CSUSB undergraduate Gabriel Lopez was named the second-place winner in the "Physical and Mathematical Sciences" session for his presentation "Self Assembling DNA Wheel Graph."

Additionally, on page 10, you will find our faculty spotlight featuring Dr. Jeremy Mallari from the Chemistry Department who was awarded this year's OSR Faculty Research and Creative Activities Mentor Award for the College of Natural Sciences. In this issue you will also find the names of this year's grant recipients (p.12-13) and Undergraduate Summer Research Program participants (p. 14), as well as our graduating 'Yotes who were accepted to doctoral programs (p. 18). Congratulations to all!

In closing, I would like to thank you for your enthusiastic support of the OSR – our growth and success would not be possible with the exceptional students and faculty here at CSUSB. Please be on the look out for next year's funding opportunities, programs, and events. If you are not familiar with our services, I invite you to visit our webpage or stop by our office (AR 111).

I hope you have a restful and productive summer. We look forward to continuing to support your educational and professional career goals.

Sincerely,
Dr. Christina Hassija
Director, Office of Student Research

COYOTE

OUTSTANDING GRADUATE STUDENT RESEARCHER AWARD

Each year, the OSR recognizes students who have shown exemplary scholastic and research achievements in their field. Faculty from each college nominate their top students, and the OSR Awards Committee selects the final candidate who will receive the award.

This year, the OSR acknowledged one outstanding graduate and undergraduate student during our annual "Research Week." Each student was awarded \$500 and also given the opportunity to present their research during the "Meeting of the Minds" lunch, and the Recognition of Faculty Mentors and Student Researchers Luncheon.

Alana Muller, graduate awardee, is a third year master's student in the Psychological Sciences program. She is a member of the cognitive neuroscience lab of Dr. Richard Addante, which uses electroencephalography (EEG) to study episodic memory and metacognition. Her thesis involves investigating the neural correlates of the Dunning-Kruger Effect which categorizes the phenomenon in which individuals who score low on a task over-estimate their performance while individuals who score high on a task under-estimate their performance. She helped design an innovative paradigm to study the neurophysiology of overconfidence while also being involved in at least five active or completed research projects in the lab.

Her mentor, Dr. Richard Addante, notes "Alana's accolades and achievements stem largely from an intrinsic discipline of dedicated student who is patient to learn and unafraid to work hard learning challenging concepts. She is simply innately very smart but coupled with an impressive work ethic and a driving scientific curiosity."

Alana has been accepted into the Ph.D. program for Psychology at the University of Arizona and will be starting her program in the fall.



ALANA MULLER
GRADUATE AWARDEE



COYOTE

OUTSTANDING UNDERGRADUATE STUDENT RESEARCHER AWARD

Gabriel Lopez, undergraduate awardee, is a fourth year Mathematics major. During his time here at CSUSB, he has been involved in a number of research projects on top of his normal coursework. In the Summer of 2017, Gabriel participated in a Research Experience for Undergraduates (REU) at the University of Washington, Bothell, where he did work in tiling theory. The following Winter quarter back home in San Bernardino, Gabriel began work on a new project in modeling self-assembling DNA complexes using graph theory under one of his professors, Dr. Cory Johnson. Their work continues to this day. The summer of 2018, Gabriel participated in his second REU here at CSUSB, where he studied differential geometry under Dr. Corey Dunn. Between all of these projects, Gabriel has presented at numerous conferences across the country, and has won a number of awards and recognitions for his work, including 2nd place in the "Physical and Mathematical Sciences" session for his presentation "Self Assembling DNA Wheel Graph" at this year's statewide CSU Research Competition.

"Gabriel has maintained an excellent research record and has maintained an active role in extracurricular activities. Overall, Gabriel is the highest achieving student I have taught in my five years at CSUSB." - Professor Cory Johnson

This fall, Gabriel will be starting his Ph.D. at the University of Colorado, Boulder, where he plans to study algebra and topology.



GABRIEL LOPEZ
UNDERGRADUATE AWARDEE



It's important to have people that can support you personally, academically, and professionally, and it's okay if you go to different people for help in all three of those areas
- Gabriel Lopez.

COYOTE

8TH ANNUAL "MEETING OF THE MINDS" STUDENT RESEARCH SYMPOSIUM

Meeting of the Minds is a yearly event meant to recognize and celebrate the results of our students' hard work and highlight the outstanding research and creative activities taking place on our campus. This event is an opportunity to celebrate and acknowledge the innovation and creativity that undergraduate and graduate students bring to their research and a place to share their discoveries with others.

This year, more than 260 students from across all disciplines presented their research and projects, and 20 awards were presented for the best oral and poster presentations during our Recognition of Faculty Mentors and Student Researchers Luncheon on May 17th.

The staff of the OSR would like to extend its sincere gratitude to the faculty mentors and volunteers who consistently support their students and the activities of our office. Our continued growth and success would not be possible without your passion, generosity, and commitment.

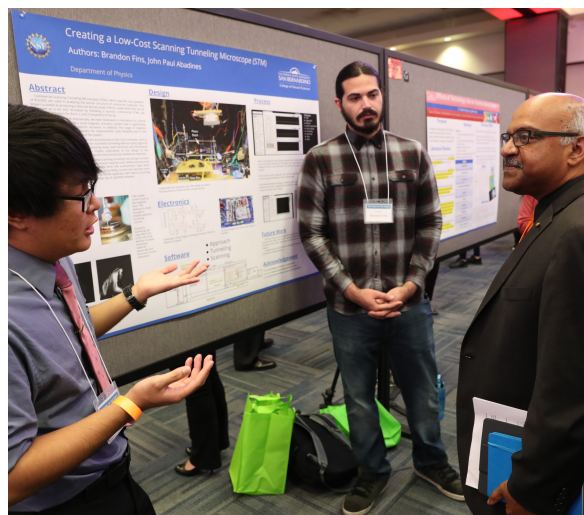
Best Poster Presenters

Mellissa Patton
Matthew Atherton
Marlee Poff
Bryan Seymour
Stephen Ware
Karen Soria Cortez
Virginia Barbosa Mascorro
Andrea Clary
Aeleen Jacinto

Best Oral Presenters

Jeffrey Chance
Jasmine Colorado
Kaylie Balvaneda
Melina Gonzalez
Jeanette Jetton-Rangel
Ciera Hammond
Grecia Troche
Amber Olson
Jeffrey Chance

Jasmine Colorado
Kaylie Balvaneda
Melina Gonzalez
Jeanette Jetton-Rangel
Ciera Hammond
Grecia Troche
Amber Olson
Prince Siraj
Oscar Orozco
Henry Diaz
David Lopez Sanchez
Ariana Dorticos
Caitlin Hazelquist
Nestor Maria
Matthew Atherton
Heather Norwood
Guadalupe Valdivia
Mauricio Guido
Lindsey Sirianni
Madeline Blua
Lindsey Chesus



COYOTE

FACULTY MENTORS



CSUSB faculty continuously shown their commitment to their students in numerous ways. Thank you to the mentors who have guided their students' curiosity through research and creative activities

Dr. Nancy Acevedo-Gil
Dr. Richard Addante
Dr. Mark Agars
Dr. Jennifer Alford
Dr. Ece Algan
Dr. Dionisio Amodeo
Dr. Manijeh Badiee
Dr. Eun-Ok Baek
Dr. Benjamin Becerra
Dr. Monideepa Becerra
Dr. Gisela Bichler
Dr. Nicole Bournias
Dr. Kelly Campbell
Dr. Sara Callori
Dr. Kerri Cato
Dr. David Chavez
Dr. Zhaojing Chen
Dr. Liliana Conlisk-Gallegos
Dr. Meredith Conroy
Dr. Thomas Corrigan
Dr. Kimberley Cousins
Dr. Nicole Dabbs
Dr. Ismael Diaz
Dr. Paul Dixon
Dr. Jeremy Dodsworth
Dr. Kelly Dortch
Dr. Corey Dunn
Dr. Guillermo Escalante
Dr. Mary Fong
Dr. Stacy Forcino
Dr. Joan Fryxell
Dr. Marc Fudge
Dr. Donna Garcia

Dr. Christopher Gentry
Dr. Cari Goetz
Dr. Ed Gomez
Dr. Christina Hassija
Dr. Lorraine Hedtke
Dr. Nicole Henley
Dr. Edwin Hernandez
Dr. Angela Horner
Dr. Isabel Huacuja Alonso
Dr. Arianna Huhn
Dr. Fred Jandt
Dr. Cory Johnson
Dr. Jacob Jones
Dr. Laura Kamptner
Dr. Ryan Keating
Dr. Younglee Kim
Dr. Hideya Koshino
Dr. Deirdre Lanesskog
Dr. Codi Lazar
Dr. Britt Leatham
Dr. Kate Liszka
Dr. Jessica Luck
Dr. Jeremy Mallari
Dr. Edna Martinez
Dr. David Marshall
Dr. Sally McGill
Dr. Erik Melchiorre
Dr. Ahlam Muhtaseb
Dr. Jose Munoz
Dr. Jeremy Murray

Dr. Enrique Murillo
Dr. Robert Nelson
Dr. Laura Newcomb
Dr. Jason Ng
Dr. Daniel Nickerson
Dr. Paul Orwin
Dr. Tomasz Owerkowicz
Dr. Alison Petty
Dr. Bonnie Piller
Ms. Krystal Rawls
Dr. David Rhoads
Dr. Karen Robinson
Dr. Alexandru Roman
Dr. Yvette Saavedra
Dr. Amanda Salazar
Dr. Amy Van Schagen
Dr. Hosung So
Dr. Daniel Stewart
Dr. Becky Talyn
Dr. Julie Taylor
Dr. Caroline Vickers
Dr. Christina Villegas
Dr. Sharon Ward
Dr. Joseph Wellman
Dr. Kimberlyn Williams
Dr. John Winslade
Dr. Eugene Wong
Dr. King-To Yeung

COYOTE

SPOTLIGHT: MERNYLL MANALO



1. Tell us about yourself! Where did you grow up? What was your field of study and what influenced you to pursue this path?

I spent my childhood in Kentucky and my adolescence bouncing around the southern California area. After high school, I attended Cal Poly Pomona and before completing my degree, I decided to join the U.S. Army as an infantryman. My time in the military had a profound impact on my life and my academic interests and career goals. After I left military service, I noticed that many of the soldiers that I served with started showing signs of psychological distress. This sparked an interest within me as I wanted to know why this was happening and whether I could do something to help my fellow veterans. I decided to explore it by taking psychology courses at CSUSB. From these courses, I developed an ardor for psychology and subsequently enrolled in the Master of Arts Psychological Science Program. Currently, I am looking forward to graduating and beginning the Combined Clinical & Counseling Psychology Ph.D. program at the University of South Alabama.

2. Tell about your involvement in research at CSUSB?

I am particularly interested in research on posttraumatic stress disorder (PTSD), moral injury, and alcohol/substance use disorders among military populations. More specifically,

I would like to determine whether resilience factors can reduce psychological distress and, then, how best to implement focused practices in therapy among military populations. I have studied and researched trauma, moral injury, and veterans under the supervision of my graduate advisor Dr. Christina Hassija. This resulted in a few studies produced during my first year of my master's program. I began my trauma research with a post hoc exploratory analysis of data collected from college student veterans and investigated whether different types of social support mediated the relationship between PTSD symptoms and alcohol misuse. In another study, we used preliminary data collected from a larger project to investigate whether emotion regulation strategies mediated the relationship in between psychological distress (i.e., PTSD and depression symptoms) and alcohol misuse among sexual assault survivors. In my research lab that investigates toxic leadership under, Dr. Janet Kottke, I had the opportunity to lead a team of researchers in a qualitative study investigating the behaviors of employees when faced with a morally challenging situation involving a toxic leader. I recently completed my work with Dr. Christina Hassija on my master's thesis titled, "The Role of Self-compassion in the Relationship between Moral Injury and Psychological Distress among Veterans." I tested the model of moral injury developed by Litz and colleagues (2009) and found that self-compassion plays a moderating role. Currently, I am preparing my findings for publication.

3. Tell us about how your background influenced your field of study.

There were many interesting aspects of the Army related to psychology that piqued my interests. For instance, soldiers in my unit were required to attend mental health briefings to inform us about PTSD, which sparked my interests in PTSD. Throughout my time in the military, I observed my fellow soldiers

struggling to cope with PTSD. After serving in the Army, I completed my B.S. in Economics at Cal Poly Pomona and took a job working for my city doing community outreach. One of the main functions of my job was to connect the homeless with basic needs services, such as shelters and mental health services. I also had the chance to work with homeless veterans by connecting them to services with the Veterans Administration. All of these experiences motivate and inform my research and desire to become a clinical psychologist and researcher.



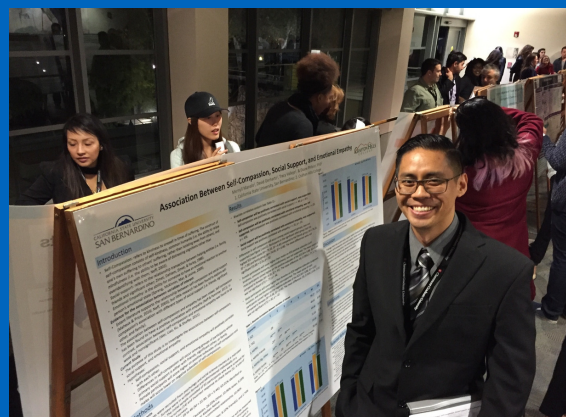
4. What do you think best prepared you to be successful in your field of study?

I think the most important thing I did before embarking on my journey to become a clinical psychologist was to explore as many different career paths as possible and reflect on my different experiences. The latter helped me connect the dots in my life and bolster my motivation which was needed to get through the rigorous program here at CSUSB.



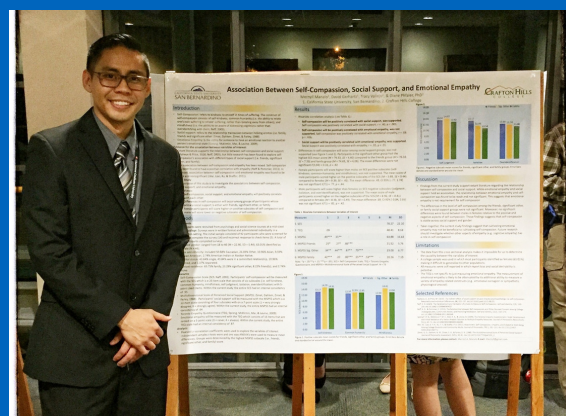
5. What are your career/educational future plans?

My long-term goal is to become a clinical psychologist researcher and practitioner dedicated to finding ways to improve the well-being of military service members and veterans. My hope is to eventually work for the Veterans Administration as a clinical psychologist.



6. What advice do you have for students who wish to be successful and engage in research on campus?

Balancing the academic course load, work, family, and research labs are challenging. From what I observed in my self and other student researchers, having well-defined research interests and motivations are essential to getting the most out of your research.



College of Natural Sciences:

Student: Gabriel Lopez

Faculty Mentor: Dr. Corrine Johnson

Department: Mathematics

Presentation Title: *Self Assembling DNA Wheel Graphs*

Student: Bryan Castillo

Faculty Mentor: Dr. Sally McGill

Department: Geological Sciences

Presentation Title: *Preliminary ages of prehistoric earthquakes on the Banning Strand of the San Andreas Fault, near North Palm Springs, California*

Student: Nikolay Maslov

Faculty Mentor: Dr. Jeremy Mallari

Department: Biology

Presentation Title: *Developing Chemical Tools to Investigate Falcilysin, an Essential Metalloprotease*

Student: Ngoc Huynh

Faculty Mentor: Dr. Jeremy Mallari

Department: Biology

Presentation Title: *Validating the Antimalarial Mechanism of Action of Small Molecule Inhibitors Against Falcilysin using Conditional Knockdown Parasite Line*

Student: Marvin Macharia

Faculty Mentor: Dr. David Rhoads

Department: Biology

Presentation Title: *Cloning and Functionally Testing Agrobacterium Ilvd Genes which Encode and Enzyme in Amino Acid Biosynthesis*

Student: Elizabeth Corella

Faculty Mentor: Dr. Nicole Dabbs

Department: Kinesiology

Presentation Title: *Strength Profile of Elite Short Track Speed Skaters*



College of Social and Behavioral Sciences:

Student: Ginny Park, Jasmine Rios, Jordan Taylor

Faculty Mentor: Dr. Cynthia Crawford

Department: Biopsychology

Presentation Title: *Fentanyl: The Effects of Early Exposure into Adulthood*

Student: Ciera Hammond

Faculty Mentor: Dr. Meredith Conroy

Department: Political Science

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

College of Public and Business Administration:

Student: Michael Graham

Faculty Mentor: Dr. Rishabh Kumar

Department: Economics

Presentation Title: *Income inequality in the U.S.*



Top Row (Left-Right): Eric Lowe, Bryan Castillo, Nikolay Maslov
Bottom Row (Left-Right): Ginny Park, Jasmine Rios, Jordan Taylor, Gabriel Lopez, Dr. Christina Hassija



1. Tell us about yourself! What inspired you to study Chemistry and go into academia?

I've been curious about different aspects of nature (mostly biology and chemistry) since I was a kid, and I enjoyed learning about science because it made me aware of other interesting natural phenomena and helped me to understand how the world worked. When I started my undergraduate education I majored in Biology, and after taking my first Organic Chemistry course I realized that having a stronger chemistry background would help me to have a better fundamental understanding of biology. This really helped to reinforce my interest in both areas, and I later decided to double major in Biology and Chemistry.

As I progressed through my coursework, I also realized that studying science wasn't just about learning new facts, but also about collecting and analyzing data, and being able to think and problem solve using what I had learned in class. I really enjoyed this process, and my initial plan was to become a physician since I thought that it would be a good fit for this style of thinking. (I reasoned that a physician's job was to collect data from their patients, to analyze that data, and to solve the problem by deciding on a course of treatment).

To prepare for med school applications, I joined a research lab in the Chemistry department, and found that this kind of analytical problem solving was really at the core of the research process. As a result, I grew to really enjoy laboratory research, and after about a year I decided that pursuing either a PhD or MD/PhD would be the best fit for my interests. I later applied and interviewed for both types of programs, and after a lot of back and forth I eventually decided to do a PhD.

I was largely inspired to go into academia by my undergraduate research advisor. His mentoring and support were extremely important to my personal and professional development, and I felt that I would like to someday be in that position and be able to help my students in the same way. I was also drawn to academia because I liked the university environment and its culture of autonomy and intellectual freedom. I liked the idea of being able to study what I wanted to study, and I also knew that I enjoyed teaching and talking about science, so academia felt like a good fit.

2. Where did you attend graduate school?

I went to UC San Francisco, and earned my PhD in Chemical Biology in 2008. My graduate research focused on developing small molecule inhibitors to selectively target two different cysteine proteases in *Trypanosoma brucei*, the causative agent of human African trypanosomiasis.



3. Tell us about your research interests and your current work at CSUSB.

I'm interested in developing chemicals to manipulate biological systems. Research in my laboratory focuses on designing small molecules that we can use to turn on/off specific biochemical pathways in the cell. This allows us to control these pathways in live cells to better understand the how they work. Right now we are specifically interested in using these kinds of approaches to study metalloproteases in the parasite that causes human malaria, *Plasmodium falciparum*. My research group is currently made up of about 12 undergraduate students, 5 of them focus on the cell biology and biochemistry aspects of the project while the others work primarily on designing and synthesizing a variety of inhibitors targeting malarial metalloproteases.

4. What advice do you have for students with similar research and professional interests?

If you are interested in science, there are a lot of different pathways you can take. If you want to pursue an advanced degree (like a PhD or MD), be sure that you are doing it for the right reasons. There are less stressful ways to make a living, but if you genuinely enjoy the learning process and thinking about science then it makes the effort a lot more worthwhile.



How to Prepare for Graduate School?

Thinking about attending graduate school can seem very daunting. From determining which degree to pursue to finding the money to pay tuition, it can feel overwhelming and intimidating. This guide is designed to help prospective graduate students tackle some of the biggest tasks they'll be faced with when preparing to pursue a graduate degree, including choosing, applying for, and financing a graduate program

Exploring the Options

Before you jump into applying for graduate school. First ask yourself, "Should I go to graduate school?". You should seriously examine your ultimate career goals and motives for attending grad school before you commit at least two years of your life and thousands of dollars to graduate program.

Finding the Right School and Program

There's a lot more to choosing the best graduate program than simply looking at rankings, applying to the schools at the top of the list and going with the first one to send an acceptance letter. While a program's reputation is important, it's only one of several factors to be considered. You may want to consider the program characteristics, cost and availability of financial aid, location, and whether it's an online or on-campus program.

Applying to Graduate School

Applying for graduate school takes work, perseverance and patience. Carefully planning ahead and staying organized can keep the graduate school application process from becoming overwhelming. This is not the time to cut corners or rush--the importance of submitting a strong application can't be overstated.

Every school has its own application form and supplemental submission requirements. However, typically, you should expect to submit the application form, transcripts, standardized tests scores, letters of recommendations, statement of purpose, and a personal statement.

Paying for Graduate School

As with every aspect of graduate school preparation, the best course of action to take when it comes to funding your education is to investigate all options as soon as possible. Many universities offer the following types of aid: Student loans, grants scholarships and fellowships, teach and research assistantships, and campus work-study programs,

Content provided by GoGrad.org

COYOTE

2018-2019 GRANT AWARDEES

Faculty/Student Grants

Becky Talyn
Benjamin Becerra
Codi Lazar
David Rhoads
David Chavez
Dionisio Amodeo
Donna Garcia
Edwin Hernandez
Jason Ng
Jeremy Mallari
Jeremy Murray
Joseph Wellman
Kelly Campbell
Manijeh Badiie
Nicole Dabbs
Richard Addante
Robert Nelson
Ryan Keating
Stacy Forcino

Coyote Research Ambassadors

Ginny Park
Ciera Hammond
Melody Robinson
Lakhvir Kaur
Melody Robinson
Nazaret Montejano
Sophia Josemoan
Karina Rodriguez-Torres

Undergraduate Student Grants

Benjamin Gibson
Bianka Sanchez
Brenda Trejo
Crystal Garcia De Alba
Emily Kingston
Jonathan Arnette
Karina Herrera
Kate Wright
Kristof Csaba
Linda Phan
Maria Ceja
Mark Hall
Maynori Hinton
Melody Robinson
Mirella Arana
Nicholas Bogdis
Nikolay Maslov
Phuong Nguyen
Raechel Marino
Roman Lopez
Sarah Handy
Sophia Josemoan
Yoselin Canizales

STEM en Familia Faculty Mentors

Min-Lin Lo
Renwu Zhang
Jeremy Mallari
Richard Addante
Dionisio Amodeo
Daniel Nickerson
Lynn Scow
Maria Santos
Nicole Bournias-Vardiabasis
Yunfei Hou

SSI Graduate Culminating Project Grant

Adam Beam
Alana Muller
Alma Pahua
Amanda Salazar
Ashlee Pardo
Brandon Oliver
Elisa Sequeira Delgado
Fernando Villalpando
Gia Macia
Linda Sanderman
Lindsey Sirianni
Lindsey Chesus
Madeline Blua
Marlee Poff
Mary McAllister-Parsons
Matthew Atherton
Nestor Maria
Sixta Payan
Stephen Ware

Faculty Mentor Award

Richard Addante
Edna Martinez
Liliana Gallegos
Jeremy Mallari

Mellon Mays Undergraduate Fellowship Program

Giovanni Gonzalez
Chance Groom
Fernando Sanchez
Mariza Vazquez

2018-2019 GRANT AWARDEES

Student Research and Travel

Adrian Mora
Aeleen Jacinto
Alana Muller
Alexander Manriquez
Allison Figueroa
Amber Olson
Andre Adame
Andrea Clary
Andrew Lavengood-Ryan
Andy Acosta
Ariel Lin
Arlette Osorno
Ashlee Pardo
Audrey Baca
Benjamin Shultz
Bernardo Renteria
Britney Boyd
Celene Gonzalez
Chanel Catunao
Chau Vuong
Christopher NeVille
Ciara Castille
Ciera Hammond
Cinthia Gazca
Citlalik Ibarra Figueroa
Constance Greenwood
Crystal Solano
Elizabeth Rahmani
Elizabeth Tamez
Felicida Barajas
Francisco Rodriguez
Gia Marcia
Guadalupe Hernandez
Gwendolyn Partlow
Hannah Fejzic

Heather Carrasco
Holly Read
Holly Timblin
Hyunjoon Jeung
Inn Kwon
Ivette Jimenez
Jasmine Zepeda
Jason Van Gordon
Jeffrey Chance
Jessica Heredia
Jonathan Arnette
Joshua Robert Dimapilis
Julissa Perez-Marron
Karen Childers
Karla Espinoza
Kayla Villanueva
Keila Renteria
Kelsey Meyer
Kori Gearhart
Kristina Simon
Kristof Csaba
Krystle DeCasas
Lakhvir Kaur
Linda Pham
Lindsey Sirianni
Maia Matheu
Margarita Navarrete
Maria Ceja
Marlee Poff
Martha Blanco Villarreal
Marwa Mohamed
Mathew Mullen
Matthew Atherton
Melody Adejare
Michael Muela

Monique Quinn
Nestor Maria
Nohemy Celis
Phillip Loving
Raechel Marino
Rebecca Avila
Rita Garcia
Robert Mitchell
Roberta Salgado
Ryan Zagala
Sarah Berryman
Sean Christopher Bonilla
Sean Longo
Sean Maulding
Shea Caddel
Stephanie Gomez
Stephen Ware
Timothy Schulte
Toshio Alvarado
Wen-Yueh Shu
Yessica Rodriguez

Faculty Assigned Time

Alexandru Roman
Anthony Silard
Bo Xu
Dionisio Amodeo
Douglas Weiss
Jeremy Dodsworth
Marc Fudge
Marissa Congdon
Michal Kohout
Min-Lin Lo
Monideepa Becerra
Nancy Acevedo-Gil
Qingquan Sun,
Richard Addante
Robert Nelson
Susie Pryor
Yunfei Hou



COYOTE

SUMMER RESEARCH PROGRAM

The Undergraduate Summer Research Program is a ten-week program in which faculty select a team of 2 to 3 students to work on a research or creative project during the summer. This year, the OSR awarded 14 faculty and 41 students to participate. Below is a list of faculty and their student teams.

Business & Public Administration

Faculty Mentor: Dr. Marc Fudge
Students: Jordan Haselin and McKenna Smith
Project Title: Land Value Capture in the US - A Strategy for Adoption and Implementation

Education

Faculty Mentor: Dr. Nancy Acevedo-Gil
Students: Stephanie Nunez-Rivera, Yesenia Casas, and Elsy Cruz
Project Title: Toward a Critical College Consciousness: Examining the Influence of Ethnic Studies on the College Choices and Transitions of Latina/o/x Students

Natural Sciences

Faculty Mentor: Dr. Nicole Dabbs
Students: Sean Bonilla and Sergio Espericueta
Project Title: The Effect of Whole-Body Vibration and Muscular Fatigue on Muscle Force, Muscular Activity, and Vertical Jump Performance

Faculty Mentor: Dr. Angela Horner
Students: Bilal Azhand and Jayda Bowen
Project Title: Effects of Training on Tendon Morphology and Mechanics

Faculty Mentor: Dr. Jeremy Mallari
Students: Aaron Keniston, Gulbag Kahlon, and Emmett Pompa
Project Title: Latestage Optimization and Target Validation for Selective Inhibitors of Falcilysin, an Essential Malarial Metalloprotease

Faculty Mentor: Dr. Sara Callori
Students: Carlos Vargas Ochoa, Nolan White, and Deisy Morales
Project Title: Determining Optimal Growth Conditions of Ferrocic Oxide Thin Films

Faculty Mentor: Dr. Daniel Nickerson
Students: Chau Vuong, Sean Connolly, and Adrian Mora
Project Title: Determining the Physiological Role(s) of γ p8: A Novel Transmembrane Rab GAP that Localizes to Peroxisomes in Yeast

Faculty Mentor: Dr. Tomasz Owerkowicz
Students: Chloe Addison, Angelina Jackson, and Alison Conner
Project Title: Gators on TUMs: Experimental Test of Bone Buffering Capacity of Lactic Acid

Faculty Mentor: Dr. Paul Orwin
Students: Esther Gomez, Ciara Sanders, and Sean Escopete
Project Title: Investigation of the Effects of Calcium on the Gut Microbiome of the American alligator, Alligator Mississippians

Faculty Mentor: Dr. Laura Newcomb
Students: Jacob Ruiz, Raquel Rodriguez, and Kimberly Morales
Project Title: Define Antiviral Targets within Influenza Nucleoprotein

Faculty Mentor: Dr. David Rhoads
Students: Gustavo Saldana Reynaga, Michael Pierce, and Brianna Schmidt
Project Title: Mitochondrial Control of Nuclear Gene Expression during Heat Stress of Plants

Social & Behavioral Sciences

Faculty Mentor: Dr. Richard Addante
Students: Raechel Marino, Constance Greenwood, and Roman Lopez
Project Title: Cognitive Neuroscience

Faculty Mentor: Dr. Jacob Jones
Students: Aprilia Noer, Ariana Padilla, and Halbert Beaver
Project Title: Cognitive and Functional Consequences of Microbiome Disruption among Older Adults

Faculty Mentor: Dr. Arianna Huhn
Students: Julie Vidaussi, Kaytlin Taylor Howard, and Andrea Simpson
Project Title: Lost and Found: 3D Art and Interactive Educational Exhibitry

COYOTE

ALUMNI SPOTLIGHT: ARIANA CANO



1. Tell us about yourself! Where did you grow up? What was your field of study and what influenced you to pursue this path?

If I was to label myself it would be somewhere around the lines of Chicana, feminist, scholar, educator, dancer, film enthusiast, soccer fanatic, social media researcher, public speaker, believer, and activist. However, I am more than these labels could ever hope to define! My current occupation is as an Adjunct Faculty for the Communication departments at California State University, San Bernardino (CSUSB), San Bernardino Valley College, Chaffey College, and California State Polytechnic University, Pomona. During the summer I serve as an ESL instructor and a dance choreographer. I graduated from CSUSB, earning a Bachelor's of Arts in Communication with a concentration in Media Studies and a Minor in Film Studies and a Master's of Arts in Communication Studies.

My research interest lies in critically analyzing Latinx, Chicanx, and indigenous self-presentations on social media sites. As a Mexican American (Chicana), first generation, lower-middle-class women born in Lincoln Heights and residing in San Bernardino County (for most of my life), the odds of graduating from a university in four years were

not in my favor. However, through my own commitment towards my studies, the community's assistance, Pell and Cal Grants, and plights to make ends meet with multiple jobs, I was able to graduate from CSUSB. I discovered how my identities play a role in academia and I was intrigued by how individuals with diverse backgrounds frame their identities against the stereotypical tropes in media. Through my research, I want to help individuals with intersecting identities critically analyze their representations and thrive in academic spaces and their careers.

2. Tell about your involvement in creative activities at CSUSB?

While I was attending CSUSB as a student, I researched the cultural differences between Mexico and the United States (U.S.) and how those differences might affect the cultures' use of Instant Messenger (IM). For my methodology, I utilized the Technology Acceptance Model (TAM) and the Assessment Model of Internet-based Support (AMIS) which resulted in vast differences between Mexico (a collectivistic culture) and U.S. (an individualistic culture) use of IM. This paper, "Cultural Value in Instant Messenger: An Analysis Between Mexico and the U.S.," was competitively selected at the CSUSB Research Competition for the student representative of the College of Arts and Letters for the 32nd Annual CSU Student Research Competition where my research garnered statewide recognition. Here, I learned to articulate complicated research findings to a wider audience.

My thesis, "Performing Stereotypical Tropes on Social Media Sites: How Popular Latina Performers Reinscribe Heteropatriarchy on Instagram," analyzed three Latina social media celebrities' self-presentation on Instagram and focused on whether or not the content they published potentially challenges or perpetuates stereotypical tropes of Latinas found in mainstream media. My thesis examined Latina identity, Latinidad, and Latina representations (Beltrán, 2010; Dávila, 2014) and self-presentation, self-branding,

and performance on social networking sites (Banet-Weiser and Juhasz, 2011; Volčič, 2012; Hearn, 2017). I found that although these new platforms offer opportunities for Latina social media celebrities to challenge popular culture's narrow perception of Latinas, unfortunately, their self-presentations/performances on Instagram are similar to the stereotypical representations for Latinas shown on mainstream media. This qualitative study took an Ideological Critical approach through a textual analysis that was informed by Feminist Theory.

As a student, I was also a part of Lambda Pi Eta, Communication Studies Honors Society, Choreographer of the 2015 President's Showcase, President of the Transcultural Commons Collective, Member of The Society for Student Filmmakers, Member of The Hispanic and Latino Council, Member of The Association of Latino Faculty, Staff, & Students, Graduate Student Ambassador for the Pass the Torch Event, and Board Member for the CSUSB Faculty/Staff Alumni Chapter.

3. Tell us about the Emerging Scholar Award and what it means to you.

Recently, I was accepted to present "Es Bueno O No Bueno: A Critical Analysis on Mexican American Memes on Social Media" at the Third International Conference on Communication and Media Studies. This was my most recent accomplishment and the first study I conducted without the help of my institution, which took an Ideological Critical approach through a qualitative textual analysis to analyze trending memes characterizing the Mexican American community. These memes emphasize comedic aspects of the Mexican American life while simultaneously perpetuating stereotypical tropes of the Mexican American community. I found that through Mojarra Pedagogy many memes incorporate *sincretismo* (a form of resistance) within their productions. This research paper led me to earn the Emerging Scholar Award at the same conference.

According to the Communication and Media Studies Research Network (the organization that awarded me), 'a small number of Emerging Scholar Awards are given to outstanding graduate students or early career academics who have an active academic interest in the conference area.' I was selected as an outstanding early career academic through my research paper, serving as my main academic interest in Communication and Media Studies. The award included complimentary registration to the conference, dinner, and an award ceremony honoring all recipients. Through the Emerging Scholar Award I had the opportunity to present my research, connect with other scholars in the Communication field, moderate sessions, and facilitate a discussion among academics within the Communication field. To me the Emerging Scholar Award serves as a stepping stone into my postgraduate degree. More importantly, the Emerging Scholar Award helps fortify my transitional process from a student to a professional researcher. Overall, this conference was different from any other because I was able to identify my growth as an academic. I found myself pinpointing and questioning other scholars research and effectively expressing my ideas and defending my own research — not to mention, all while still assisting, from afar, the four classes I was teaching at the time. I was able to fortify my professional demeanor and make international friends within the Communication field.

4. What do you think best prepared you to be successful in your field of study?

There is a combination of things that have helped prepare me for my field of study — particularly my 11th grade English teacher, Ms. Morris, and my mother, Ninfa Galvan, have been major influences. Throughout my early education I was not interested in school, let alone research, it was not until my junior year in high school where I took Ms. Morris'

English class that I realized I was capable of more. She taught me how to engage in a conversation with the text through annotation and enhance my communication skills. Although Ms. Morris never mentored me in a close, one-on-one relationship, her professional demeanor and expectations motivated and shaped me to become the scholar I am today. My mom, on the other hand, has mentored me my entire life and etched what kind of academic I want to be in the future. I believe she has sacrifice much to get me where I am. Many people ask me how I am able to excel in all my academic activities while still maintaining multiple jobs and having a social life, my secret is my mom. She always made sure I had food, shelter, and clothes, she offered to help me on smaller projects, and she would check on my mental and emotion health.

Within CSUSB, I believe the readings and conference presentations helped prepare me to be successful in my field. I was able to earn the Hispanic Association for Colleges and Universities (HACU) Student Track Scholarship — a networking symposium tailored for student career development — which truly helped me gain my professional demeanor. I also believe Communication Studies, in general, has made me confident in the way I present myself to the world. It provided me with the assets to become outspoken and achieve every goal I set for myself. I grew to love the Communication field because I love expressing myself, being a part of productions and journalism, learning about hidden histories in particular Latinas in media, about gender, race, class, and how they intersect. Communication Studies prepare me to be successful because it sparked my interest and passion in graduate school.

5. What are your career/educational future plans?

In the future, my goal is to earn a Ph.D. in an interdisciplinary field that will not only help enhance my own knowledge but will help me better understand and work with marginalized communities to help reconceptualize hidden histories, decolonize, heal, and critically approach productions of heteropatriarchy, particularly in the digital sphere. After I receive my Ph.D. degree, I plan to mentor students or peers in the spirit of Paulo Freire (1970)— particularly, those with diverse backgrounds or hardships. In the Ph.D. program, my research will focus on how social media platforms can create opportunities of personal, communal, and civic, value for marginalized groups that continue to be underrepresented/misrepresented in traditional media.

6. What advice do you have for students who wish to be successful and engage in research on campus?

I believe the first advise is more important: Find yourself a person (spouse, parent, friend, etc.) who believes in you and is willing to support you while you pursue your dreams. As I previously stated I am continuously achieving my goals thanks to my first mentor, my mother. The second, is to learn to listen and take advice, particularly, to other students, within your field, with your plan of study. These students already know the ins and outs of the track you are interested in. Remember out seek out advice if it is not given. Lastly, research the faculty and schools you wish to pursue — your research will rely heavily on the faculty you wish to work with.

For more specific advice reach out at ariana.cano@csusb.edu.

STUDENTS ACCEPTED TO PH.D. PROGRAMS

Congratulations to the following students on their acceptance into Ph.D. programs this academic year!
We congratulate you and wish you the best of luck on this next step of your educational journey.

Student Name: Ivan Silva
Mentor Name: Dr. Nicole Bournias
Doctoral Institution: Western Health Sciences School of Medicine
Field of Study:

Student Name: Michael Ramos
Mentor Name: Dr. Nicole Bournias
Doctoral Institution: Cedar's Sinai
Field of Study:

Student Name: Jesse Ventura
Mentor Name: Dr. Nicole Bournias
Doctoral Institution: University of California Riverside
Field of Study:

Student Name: Taemin Ha
Mentor Name: Dr. Hosung So & Dr. Eun-Ok Baek
Doctoral Institution: University of Northern Colorado
Field of Study: Sport Pedagogy

Student Name: Charli Eaton
Mentor Name: Dr. David Luis Brown
Doctoral Institution: Claremont College
Field of Study: Mass Incarceration

Student Name: Mindy Lombere
Mentor Name: Dr. Daniel Nickerson
Doctoral Institution: Western University of Health Sciences
Field of Study: Doctor of Dental Medicine

Student Name: Amanda Rodriguez
Mentor Name: Dr. Nicole Dabbs
Doctoral Institution: Western University
Field of Study: Physical Therapy

Student Name: Ariel Vanluensauls
Mentor Name: Dr. Paul Orwin
Doctoral Institution: University of Southern California
Field of Study: Molecular Biology

Student Name: Jose Uribe
Mentor Name: Dr. Kimberley Cousins
Doctoral Institution: University of Irvine
Field of Study: Chemistry

Student Name: Sarah Rodriguez
Mentor Name: Dr. Kimberley Cousins
Doctoral Institution: University of California Riverside
Field of Study: Biochemistry/Molecular Biology

Student Name: Thuc Nguyen
Mentor Name: Dr. Kimberley Cousins
Doctoral Institution: University of Illinois Chicago
Field of Study: Chemistry

Student Name: Alana Muller
Mentor Name: Dr. Richard Addante
Doctoral Institution: University of Arizona
Field of Study: Psychology

Student Name: Fitria Jong-Martinez
Mentor Name: Dr. Richard Addante
Doctoral Institution: Loma Linda Medical University
Field of Study: Occupational Therapy

Student Name: Gino Howard
Mentor Name: Dr. Mark Agars
Doctoral Institution: Louisianan State University
Field of Study: Industrial/Organizational Psychology

Student Name: Gia Macias
Mentor Name: Dr. Hideya Koshino
Doctoral Institution: Purdue University
Field of Study: Cognative Psychology

Student Name: Meryll Manalo
Mentor Name: Dr. Christina Hassija
Doctoral Institution: University of South Alabama
Field of Study: Clinical Psychology

Student Name: Ngoc Hunyh
Mentor Name: Dr. Jeremy Mallari
Doctoral Institution: University of California Riverside
Field of Study: Biochemistry

Student Name: Adam Beam
Mentor Name: Dr. Joseph Wellman
Doctoral Institution: University of Mississippi
Field of Study: Experimental Psychology

Student Name: Huyen (Cindee) Nguyen
Mentor Name: Dr. Jeremy Millari
Doctoral Institution: Stony Brook University
Field of Study: Physicians Assistant Program

Student Name: Nicole Sauls
Mentor Name: Dr. Nicole Dabbs
Doctoral Institution: Auburn University
Field of Study: Kinesiology



Workshops

The OSR staff is available for classroom presentations, workshops, and student club presentations. Requests should be placed online through the department's website (csusb.edu/student-research).

Getting Involved in Research

Date: October 22nd, 2019
Time: 2:00 pm

Applying for Student Research & Travel Funds

Date: November 12th, 2019
Time: 2:00 pm

Evaluating Resources

Date: January 21st, 2020
Time: 2:00 pm

Introduction to Ph.D. Programs

Date: February 18th, 2020
Time: 2:00 pm

Preparing a Poster or Oral Presentation

Date: April 14th, 2020
Time: 2:00 pm

Research Ethics and Integrity

Date: May 13th, 2020
Time: 2:00 pm

Events

Taste of Research (Palm Desert Campus)

Date: November 6th
Time: 11:00 am

CSUSB Student Research Competition

Date: February 7th, 2020
Time: 9:00 am

Academic Research Week (May 11-15th)

Mellon Mays Guest Speaker Event

Date: May 13th, 2020
Time: 3:00 pm

"Meeting of the Minds" Student Research Symposium

Date: May 14th, 2020
Time: 9:00 am - 5:30 pm

Faculty Mentors and Student Researchers Recognition Luncheon

Date: May 15th, 2020
Time: 12:00 pm

Deadlines

October 20th, 2019 (*Deadlines on the 20th of each month*)

- Student Research & Travel

November 4th, 2019

- Peer Lab and Peer Research Consultant Programs (Winter)

November 18th, 2019

- Faculty/Student Grants
- Undergraduate Student Grants
- SSI Grant Student Culminating Project fund

January 13th, 2020

- CSUSB Student Research Competition

March 9th, 2020

- Peer Lab and Peer Research Consultant (Spring and Summer)
- Undergraduate Summer Research Program
- STEM en Familia
- "Meeting of the Minds" Student Research Symposium
- RSCA Faculty Mentor Award

April 6th, 2020

- Outstanding Student Research Award (Undergraduate & Graduate)
- RSCA Faculty Assigned Time Grant
- Mellon Mays Undergraduate Fellowship Program

Should additional funding become available spring application dates will be announced.

OFFICE OF STUDENT RESEARCH

The OSR's mission is to facilitate the research and creative activities of CSUSB graduate and undergraduate students by providing programs, activities, and funding opportunities.

Dr. Dorota Huizinga
Associate Provost for Research
Dean of Graduate Studies

Dr. Christina Hassija
Associate Professor of Psychology
Director, Office of Student Research

Danielle White, MA
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