

(BUILD)Symposium & Virtual Application Workshop

Graduating Seniors – Fall 2022 Gabriela Pena Carmona – Biomedical Engineering

- David Quiroz Biomedical Engineering Adeline Rosales – Communication Studies
- Annie Tong Psychology
- Awards/Honors Scholarships

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<u>Sally Casanova Pre-Doctoral Scholarship recipient</u> • Congratulations to Antonio Arreguin, who has received the prestigious Sally Casanova Scholarship for the 2022-2023 academic year!

• Hispanic Association of Colleges and Universities (HACU) Café Bustelo El Café Del Futuro Scholarship -\$5,000

• Congratulations to Adeline Rosales for receiving the Hispanic Association of Colleges and Universities (HACU) Café Bustelo® El Café Del Futuro Scholarship. Café Bustelo® aims to invest in the Latino community by awarding scholarships to those who seek better futures for themselves, their families and their communities. This year, Café Bustelo asked applicants to share how their heritage, family, and community have impacted their desire and motivation to obtain a college degree; how they plan to give back to their community; and what they intend to accomplish with their degree. Adeline is one of the only 25 recipients of the Café Bustelo[®] El Café Del Futuro Scholarship awarded for 2022.

Conference Travel

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS NDiSTEM) **CSULB BUILD Participates in SACNAS!**

- Six CSULB BUILD Trainees traveled with members of the BUILD Team to Puerto Rico for the annual National Diversity In Stem Conference from October 27-29.
- Of the six students, four students presented a research poster.
- Congratulations to Adeline Rosales, who was awarded the SACNAS 2022 Travel Award! • And congratulations to Emily Montes, who won a best poster award at SACNAS!
- You can find attendee and presenter information below.

CSULB BUILD Fellows & Scholars

Below is the list of BUILD student presenters, which includes the newest cohort of Scholars and Fellows, and several second-year Scholars:

Presenter	Poster title
Emily Montes (Build Fellow)	Assessing Impacts of the Huntington Beach oil spill on benthic invertebrate communities in Talbert Marsh
Amber Simonpietri (Build Fellow)	Photoperiod alters ovarian mRNA expression of genes in the retinoic acid pathway
Isabel Villafuerte (Build Fellow)	Change to spare: understanding the developmental timing of food-induced plasticity during larval development of the pacific sand dollar
Alina Tran (Build Year one Scholar)	Attendee
Ana Garcia (Build Year Two Scholar)	Attendee
Adeline Rosales (Build Year Two Scholar)	A Survey of COVID-19 Pandemic Public-Health Data Tracking & Communication Practices for Racial and Ethnic Minorities in Southern California

Travel Awards

Adeline Rosales - SACNAS NDISTEM 2022 Conference Travel Award recipient - San Juan, Puerto Rico

- Tammy Nguyen ABRCMS 2022 Conference Travel Award recipient Anaheim, CA David Quiroz - ABRCMS 2022 Conference Travel Award recipient - Anaheim, CA
- Natalia Shcherbakova ABRCMS 2022 Conference Travel Award recipient Anaheim, CA Khanh Tran - ABRCMS 2022 Conference Travel Award recipient - Anaheim, CA
- Shannon Chaffin ABRCMS 2022 Conference Travel Award recipient Anaheim, CA Meleia Vyrak - ABRCMS 2022 Conference Travel Award recipient - Anaheim, CA

Presentation Awards Emily Montes - SACNAS NDiSTEM 2022 Presentation Award recipient - San Juan, PR



Emily Montes- SACNAS NDiSTEM 2022 Presentation Award recipient



Shannon Chaffin- ABRCMS 2022 Conference Travel Award Recipient

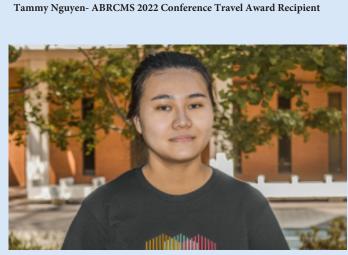




Meleia Vyrak- ABRCMS 2022 Conference Travel Award Recipient



Antonio Arreguin- Sally Casanova Scholarship



BUILD Year Two Scholar, Ana, Emily, Isabel, Amber & program coordinator

Sarah at SACNAS

Khanh Tran- ABRCMS 2022 Conference Travel Award Recipient



Natalia Shcherbakova- ABRCMS 2022 Conference Travel Award Recipient



Award recipient

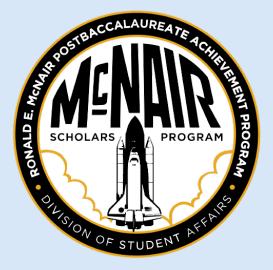
Apply to the Building Infrastructure Leading to Diversity (BUILD) Program The BUILD application is now open and due March 3, 2023. We host a joint application with the RISE Program, so when you submit your application, it will be reviewed by both programs! To get started, visit https://www.csulb.edu/build/apply to review the application elements checklist. Learn more about the Programs on their websites

CSULB Building Infrastructure Leading to Diversity (BUILD) Program CSULB Research Initiative for Scientific Enhancement (RISE) Program

If you have questions along the way, we are here to help! For questions about the BUILD Program, please email <u>build.students@csulb.edu</u>. For questions about RISE, please email <u>RISE.undrgrad@csulb.edu</u>.

We will be hosting additional information sessions in Spring 2023! Check out the CSULB Research Programs Info Session page for updates!

McNair Scholars Program Update



CSULB McNair Scholars Program

The Ronald E. McNair Postbaccalaureate Achievement Program is a TRiO program funded by the U.S. Department of Education and designed to prepare and support underrepresented undergraduate students in their pursuit of doctoral studies. To meet the needs of our students, McNair has increased accessibility to our services including evening office hours, writing support, graduate school support, social justice curriculum, virtual and in person advising formats, and embraced various methodologies in disseminating information. In addition, advising and activities are designed to ensure students develop action steps towards their personal and professional goals. For more information about

the McNair Scholars Program, email McNair@csulb.edu or visit the McNair Scholars Program website.

Last Name Carrillo	First N		lar Awards/Recogn Graduate School	Research	Recognition	
Carrillo	First Name	Major Psychology	Activity Attended Graduate School Visitations:	Activity CSULB Faculty	Recognitions	
Carrillo			University of Michigan (UM) &	Mentor: Yada		
Carrillo	Christian		University of California, San Diego (UCSD)	Treesukosol,		
		Biomedical Engineering	Attended Graduate School Visitations:	CSULB Faculty	University Honors Program	
Fadonougbo	Ayoola		University of Michigan (UM) &	Mentor: Jason Schwans	Program (UHP)	
	, 10		University of California, San Diego (UCSD)	Caltech Summer Undergraduate	President Black Student Union	
		Electrical	Attended Graduate	Research Fellowship CSULB	University	
		Engineering	School Visitations: Purdue University &	Faculty mentor: Sean Kwon	Honors Program (UHP)	
			University of Maryland	University of	John C.	
				Maryland Summer Internship	Mather Nobel Scholar	
Marrufo	Marco			SACNAS presenter	NASA Intern Sally	
				Cells to Galaxy	Casanova Scholar	
				Conference Presenter		
				SHPE Conference		
		Linguistics	Attended Graduate School Visitation:	RSCA 2022 CSULB Faculty	ESL specialist CSULB	
Phan	Huy		University of Hawaii at Manoa & University of	mentor: Michael Ahland	Learning Center	
		Sociology	California, Santa Barbara Attended Graduate	CSULB	Sociology	
Reyes	Ada	Oucloby	School Visitations: University of	Faculty mentor: Janet Muniz	Honors Program	
			Michigan (UM) & University of	Sociology	CSULB	
		Psychology	California, San Diego (UCSD) Attended Graduate	Honors Thesis	Learning Center Psychology	
			School Visitations: University of Michigan (UM)	Faculty mentor: Yada Treesukosol	Transfer Student Association	
Rodriguez	Mario		& University of California, San	Society for Neuroscience	Board Member	
			California, San Diego (UCSD) & UC Davis Envision	2022		
		Psychology	Program Attended Graduate	CSULB	Men's	
Gibson	Antonio	Desta	School Visitations: University of Michigan (UM)	Faculty mentor: Amber Johnson	Success Initiatives (MSI)	
Woods-	August	Psychology	Attended Graduate School Visitations: University of	CSULB Faculty mentor: Amber		
Stine			Michigan (UM) & University of Oregon	Johnson		
Nava	Melissa	Psychology	Attended Graduate School Visitations: University of	CSULB Faculty mentor:		
		Biochemistry	California, San Diego (UCSD) Attended Graduate	Matthew Jaurequi CSULB	UCSD	
Mershon	Naieemah	. Stratty	School Visitations: Princeton University &	Faculty mentor: Judy Brusslan	Summer Undergraduate Research	
		Psychology	university of Pennsylvania Attended Graduate	ABRCMS	Fellowship	
Aguilar	Alicia	. syshology	School Visitations: Oregon State	Faculty mentor: Gabriella	Psychology Transfer Student Association	
		Dial	University	Hancock RSCA 2022	Association Board Member	
Disc	Line V	Biology	Attended Graduate School Visitations: University of	CSULB Faculty Mentor: Raisa		
Diwan	Hiralben		Michigan (UM) & UC Davis Envision	Hernandez Pacheco		
		st Name njelica	Major Kinesiology: Exercise Science			
Gutierrez	Gutierrez		i Chemistry			
Green Mic		ntranese	Ар	plied Statistics		
Yant		Kylie	Biology			
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Gonzalez		Andee	Management Info Systems			
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Ayala Hernande				mation Systems		
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Application Process

The Sally Casanova Pre-Doctoral Scholars Program application opens December 2022. For more information about the application timeline, visit the Sally Casanova Pre-Doctoral Scholars Program website or contact Omar.Hussein@csulb.edu.

2022 Annual Biomedical Research Conference for Minority Students Conference

What is the Annual Biomedical Research Conference for Minority Students? The Annual Biomedical Research Conference for Minority Students (ABRCMS) is one of the largest communities of underrepresented minorities in science, technology, engineering, and mathematics (STEM). Students attend this conference to present their research, enhance professional development skills, explore graduate schools, and network (https://www.abrcms.org/). The conference included keynote speakers, flash talks, lightning talks, posters and professional developmental seminars for students planning careers in the biomedical sciences.

Louis Stokes Alliance For Minority Participation (LSAMP) Highlights:

1 LSAMP student presented their research

Jasmine Nguyen presented her research titled Structural Functional Analysis of Cavia porcellus and Human Apolipoprotein E4 to Understand its Role in Amyloidogenesis. The Maximizing Access To Research Careers (MARC) Highlights:

All 5 MARC students presented their research!

Christy Nguyen presented a poster of her summer 2022 research project with UC Irvine titled Regulation of Female Reproduction by GLUT1-dependent Glycolysis in Gonadotropes Bryan Skorka presented a poster titled Molecular Mechanisms of Enzymes: Enabling High Throughput Studies of Enzyme Temperature Adaptation Madeleine Phan did an oral presentation on her research in the CSULB Department of Physical Therapy

titled Examining Levels of Social Support in a Mobile Health (mHealth) Exercise Intervention for Cardiometabolic Disease based on Participant Exercise Adherence Jacquelin Chen presented a poster of her summer 2022 research project with Stanford University titled

Assessing Nitrous Oxide Cycling in the Coastal Waters of the Eastern Tropical South Pacific Using Stable Isotopes Alexander Avalos presented a poster of his summer 2022 research project with UT Austin titled Hypermetric Scaling of Leg Weapons Both Within- and Across-Species of Leaf-Footed Bugs

Research Initiative for Scientific Enhancement (RISE) Highlights:

Zyrille Abela presented their poster titled Investigating the Effects of Innate Immune Protein C1q on Oxidative Phosphorylation Gene Expression in Macrophages

Earl Givens presented their poster titled Expressing Esterase/Lipase/Thioesterase 4 (ELT4) associated with the Jasmonic Acid biosynthesis pathway in Arabidopsis thaliana plastogobule Taylor Moore presented their poster titled Using CLIPTAC to identify the unknown protein targets of natural products

Karel Aceituno presented their poster titled FMOC Leucine Amino Acid Inhibitors Exemplify Strong Noncovalent Interactions in Complex with Butyrylcholinesterase Enzyme

Serli Khanbabaei presented their poster titled Role of Peptidyl Arginine Deminase PAD in Skeletal Muscle Differentiation Nanthanann Nuon presented their poster titled Unusual mortality rates of various diseases were revealed using a comparative analysis of Asian and European countries

Andrew Harrison Hanson presented their poster titled The Role of the ANAC072 Gene in Leaf Senescence Simon Galleta presented their poster titled Investigating 3D Fibrosis Models-Effects of Matrix Density and **Biochemical Factors**

Kasandra Khiev presented their poster titled Fluorescence Spectroscopic Analysis of Apolipoprotein AI Reconstituted High Density Lipoprotein

Alexander Garcia presented their poster titled Characterizing whether HIV-1 Nef interacts with the Host Protein Thioredoxin

4 RISE students presented at the 2022 SACNAS National Diversity in STEM Conference in Puerto Rico!!

4 RISE students presented at SACNAS:

Thomas Carrillo Jr. presented their poster title Determining whether the host protein Annexin A2 is a novel binding partner of HIV-1 Nef

Serli Khanbabae presented their poster on Synthesis and Biochemical Evaluation of Potential Inhibiting Features of Fmoc-Amino Amide Analogues on Butyrylcholinesterase for the Treatment of Alzheimer's Disease and won an award in the Chemistry category. Enidh Padron presented their poster titled Innate Immune Protein C1q Modulation of Endothelial Wound Healing Adaeze Anyaeto presented their poster titlted VAlidation of Cav3.3 Potentiators using a High

Throughput Fluorometric in-vitro assay

CSULB BUILD Participates in ABRCMS!

Of the 19 students, 11 students presented a research poster, and one student presented an oral research presentation. Congratulations to the six students who won a travel award from ABRCMS which covered their registration fee!

BUILD FELLOWS:

Emily Aniya (Presenter)- Role of PAH1 in the Fitness of s. cerevisiae

Tammy Nguyen (Oral Presenter) (Won ABCRMS Travel Award)- Pretreatment with Liraglutide Attenuates the Acquisition of Methamphetamine Preference in Female Rats David Quiroz (Presenter) (Won ABCRMS Travel Award)- The effect of fibrin incorporation in the development of a bioengineered skeletal muscle substitute

Isabel Ramirez Flores (Presenter)- Health and Wellness in Santa Ana: How Do Cities Affect Resident's Health Natalia Scherbakova (Presenter) (Won ABCRMS Travel Award)- Innate Immune Protein C1q Modulaion of Fractalkine Receptor CX3CR1 in Human Monocytes

Annie Tong (Presenter)- Null Effects of Two Different Attention Bias Modification (ABM) Paradigms Khanh Ngoc Tran (Presenter) (Won ABCRMS Travel Award)- Engineering 3D Fibrosis Models-Effect of ECM Components of Fibroblast Function

BUILD Year One Scholars:

Nicholas Banuelos (Presenter)- Generating Biological Hydrogen Gas from Food Waste As a Sustainable Fuel Shannon Chaffin (Presenter) (Won ABCRMS Travel Award)- Engineering a Muscle Substitute-Impact of Substrate on Muscle Fiber Formation Katrina Jensen (Presenter)- Determining the Inhibition Effectiveness of Fmoc Lys(CH3)3-O-in Comparison to Fmoc-Lys-O-Against Butyrylcholinesterase to Use in Treatments for Alzheimer's Disease

Anais Johnson (Attendee)

Victoria Min (Attendee) **Tess Nguyen** (Presenter)- Self-Stigma and Its Effect on Help-Seeking Attitudes of College Students with Depressive Symptoms

Rohan Patel (Attendee) Jeremiah Sabale (Attendee)

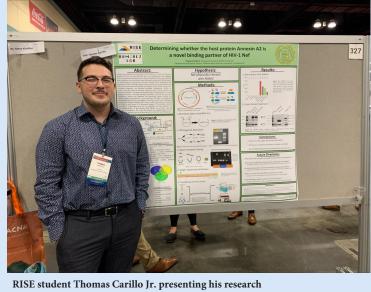
BUILD Year Two Scholars:

Gabby Pena-Carmona (Attendee)

Adeline Rosales (Attendee)

Diana Than (Attendee)

Meleia Vyrak (Presenter) (Won ABCRMS Travel Award)- Characterization of Ampicillin-Resistant Coliforms from a Southern California Beach and Tidal Channel





CSULB Research Mentor Directory

The CSULB Research Mentor Directory provides a campus-wide searchable database of faculty mentors who participate and work with students in various undergraduate research programs on campus. If you are interested in conducting research under a faculty sponsor, consider using this resource to connect you with faculty members with ongoing research agendas in your field of interest.

OURS Animated Research Videos

Please use this link to access the <u>CSULB Research Mentor Directory</u>.



HOW TO GET INVOLVED IN RESEARCH AT CSULB?

The Office of Undergraduate Research Services (OURS) and Building Infrastructure Leading to Diversity (BUILD) presents "What is Research?" and "How to Get Involved in Research at CSULB?" These videos were made to serve as resources to inform students of the various disciplines and fields of research, how to become a research assistant, and how to get involved in research at CSULB. Click the thumbnails above to watch the OURS Animated Research Videos.

For more information about accessing undergraduate research resources, peer advising, or learning about how to get involved in research at CSULB, please visit the Office of Undergraduate Research Services Website.

> **OURS Contact information:** Phone: (562) 985-7754 Email: AA-Ours@csulb.edu California State University, Long Beach Shakarian Student Success Center, Suite 120