



# 2021-2022 Annual Report



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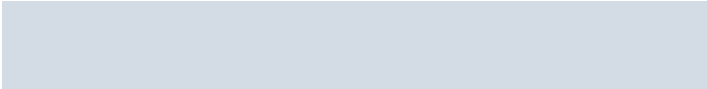
401 Golden Shore  
Long Beach, CA 90802  
Website: [www.calstate.edu/stem-net](http://www.calstate.edu/stem-net)





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# Letter From Executive Director



Dear Friends:

The California State University (CSU) system is a resilient one as demonstrated by our ability to persevere even with the pandemic still affecting our everyday lives. It is the people that make up our great institution that have met the challenges head-on and who have shown their ability to both strive and thrive under the most difficult of circumstances. Our students, faculty, and staff have been weathering the storm all the while staying true to the mission of the CSU. Even during these difficulty times, the CSU is still the vehicle to upward mobility, where opportunities for all are central to our mission and lifelong learning is a centerpiece. We pride ourselves in not only examining systemic and longstanding barriers to success for marginalized and underrepresented people but in removing them now and once and for all for our students.

My role as Executive Director of STEM-NET has evolved since arriving in August of 2019. The pandemic has been instrumental in its transformation, my approach to the position, and my own expectations driven by talented faculty, administrators, staff, and students. I never considered my employment by the CSU as a Professor of Chemistry or administrator as a job, but a passion, and today still see my activities in leading STEM-NET in the same vein. Not a day goes by I am not challenged by educational or technical questions of all kinds. A wonderful perk of the position is the ability to meet so many great people in our system.

STEM-NET is that soothing force across the CSU motivating scholars to stretch outside their comfort zones, and providing that consistency when things are good or not so good. STEM-NET is the leader among the multi-campus consortia in collaborating with all 23 campuses of the CSU and in all STEM disciplines. Yet, we are not limited to just STEM activities but also join with faculty from non-STEM fields to develop projects and proposals in areas such as sense of belonging, motivation, resiliency, and servingness. This holistic way to approach problems and find answers to societal questions is a model that fits within our mission and bodes well for our students. Whatever future challenges life throws our way (pandemic or not), STEM-NET is well-positioned to contribute to California's workforce building a stronger and better state for our future.

A handwritten signature in black ink that reads "Frank A. Gomez". The signature is fluid and cursive, with a small mark at the end.

*Dr. Frank A. Gomez, Executive Director*





## MISSION

To enable CSU STEM leaders to share expertise and leverage system-wide opportunities to foster the implementation of global best practices for our students and faculty in pedagogy, learning and research related to STEM fields within the CSU system.

## VISION

To make the CSU a world-wide leader in increasing the pipeline, preparation, graduation and employment of outstanding, diverse STEM students.

## STRATEGIC OBJECTIVES

- ◆ Foster and support research and educational scholarship in STEM throughout the CSU system.
- ◆ Promote, foster, and support faculty development to improve STEM teaching and learning across the CSU.
- ◆ Develop long-term sustainable funding for STEM-NET.
- ◆ Communicate with and engage key stakeholder groups in collaborative strategies supporting the vision.
- ◆ Promote and develop collaborative partnerships to increase capacity for K-12 STEM teacher preparation.







## STEM-NET FACULTY GRANT PROGRAM

This year, STEM-NET supported faculty research, their pursuit of extramural funding, and professional development through our Faculty Fellows program.

The goal of the Faculty Fellows program is to develop and submit targeted STEM-based proposals of a collaborative (multi-campus) nature with potential for a high investment return and with an aim to increase capacity across the CSU system. 11 faculty were nominated by their respective campus provosts to participate in a year-long program to work collaboratively to develop intercampus proposals.





“To me, the STEM-NET Faculty Fellows program is an opportunity to plan and to build transformative research collaborations both here at Cal State LA and at other CSU campuses. In particular it is an opportunity to expose our Cal State La students to research fields while also preparing them for careers in STEM. I am also very excited to share with and learn from the other faculty fellows at the other CSU campuses. “

**Dr. Olaseni Sode**

Cal State LA, Assistant Professor of Chemistry

## STEM-NET FACULTY FELLOWS

| FACULTY FELLOWS        | CSU CAMPUS                | Department              |
|------------------------|---------------------------|-------------------------|
| AWARDEES               |                           |                         |
| Dr. Subodh Bhandari    | Cal Poly Pomona           | Aerospace Engineering   |
| Dr. Jessica De Silva   | Stanislaus State          | Mathematics             |
| Dr. Zhaoshuo Jiang     | San Francisco State       | Civil Engineering       |
| Dr. Joseph Kalman      | Cal State Long Beach      | Mechanical/ Aerospace   |
| Dr. Kamila Larripa     | Humboldt State University | Mathematics             |
| Dr. Matthew Leineweber | San Jose State            | Biomedical Engineering  |
| Dr. Benjamin Lutz      | Cal Poly San Luis Obispo  | Mechanical Engineering  |
| Dr. Laura Newcomb      | Cal State San Bernardino  | Biology                 |
| Dr. Omayra Ortega      | Sonoma State              | Mathematics             |
| Dr. Monica So          | Chico State               | Chemistry/ Biochemistry |
| Dr. Olaseni Sode       | Cal State LA              | Chemistry               |





## STEM-NET WEBCASTS

### ACTIVITIES

STEM-NET webcasts highlight faculty research and foster research collaborations leading to potential funding. A variety of topics demonstrate the high level of research and scholarship conducted in the CSU.

#### **CSU NSF REU and IRES Programs and Awardees** (September 17, 2021)

**Melissa Olson, Herman Sintim, & Sally E. Connor, NSF**, The National Science Foundation Research Experience for Undergraduates Site Program

**Mehran Mazari**, Cal State LA, Collaborative REU Proposals: Challenge and Opportunities

**Betsy Read**, CSU San Marcos, Reflections on CSUSM's REU Site: NGS from Beetles to Beer

**Zair Ibragimov**, Cal State Fullerton, Engaging Students in Research Internationally

**Paul Laria**, Cal State Long Beach, In it for the Long Run: Developing an REU-Site with a Private Landowner

**Corey Garza**, CSU Monterey Bay, Monterey Bay Regional Ocean Science REU





## STEM-NET WEBCASTS

### **NIH-Funded CSU Institutional Training Grants and Research Education Programs** (October 1 2021)

**Lauire Stepanek**, National Institutes of Health (NIH), Overview of NIH/NIGMS Programs to Enhance Diversity of the Biomedical Research Workforce

**Megumi Fuse**, San Francisco State, Student Enrichment Opportunities in STEM at San Francisco State University

**Keith A. Trujillo**, CSU San Marcos, U-RISE at CSU San Marcos

**Judy Brusslan**, Cal State Long Beach, The Bridge to the Doctorate Program at CSULB: Listen to the Reviewers and be Creative

**Sonsoles de Lacalle**, CSU Channel Islands, Initiatives to Enhance Diversity in the Biomedical Research Workforce at CSUCI

**Robert L. Vellanoweth**, Cal State LA, Key Features of the 25-year Bridge to the Doctorate Program at Cal State LA



# STEM-NET WEBCASTS

## NSF RAPID and Eager CSU Grantees (November 4, 2021)

**Blake Gillespie**, California State University, Channel Islands, Reimagined Virtual STEM Laboratory Experiences in Response to COVID-19

**Cueponcaxochitl Moreno Sandoval**, California State University, Stanislaus, We are the Earth: Ancestral Computing for Sustainability

**Sandrine Matiassek & Jackson Webster**, California State University, Chico, Water Quality Impacts of Wildland Urban Interface Burning

**Hope A. Johnson**, California State University, Fullerton, Manganese Phototrophy in Bacteria - from a Sabbatical to an EAGER

**Andrew Danowitz**, California Polytechnic State University, San Luis Obispo, NSF Rapid Project: Engineering Student Mental Wellness During the COVID-19 Pandemic

**Amy Dao**, California State Polytechnic University, Pomona, How Do Multigenerational Households Navigate Care and Safety during the COVID-19 Pandemic?

### Stop the Spread of Germs

Help prevent the spread of respiratory diseases like COVID-19.

Stay at least 6 feet (about 2 arm lengths) from other people.

Cover your cough or sneeze with a tissue, then throw the tissue in the trash and wash your hands.

When in public, wear a mask over your nose and mouth.

Do not touch your eyes, nose, and mouth.

Clean and disinfect frequently touched objects and surfaces.

### How Do Multigenerational Households Navigate Care and Safety during the COVID-19 Pandemic?

Stay home when you are sick, except to get medical care.

Wash your hands often with soap and water for at least 20 seconds.

[cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)

108070C August 26, 2020 11:31 AM



*Dr. Nate Onderdonk - CSU Long Beach*

*Professor, Geology*

## STEM-NET WEBCASTS

**NSF Geo Directorate Programs and CSU Awardees** (December 3, 2021)

**Jennifer Wenner and Laura Lautz**, National Science Foundation, Navigating NSF

**Valbone Memeti**, Cal State Fullerton, The Temporal and Spatial Behavior of Magma Plumbing Systems as Seen through the Geochemical and Geochronologic Lens of Minerals

**Rachel Teasdale**, Chico State, Discipline-Based Education Research in Geology: How are Student Learning and Interest Influenced by TA beliefs in Introductory Courses?

**Nathan Onderdonk**, Cal State Long Beach, Doing Active Tectonics Research in Southern California, and Strategies for Funding Local Field Work

**Kathryn Metcalf**, Cal State Fullerton, What Happened During the First Half of the India-Asia Collision?

**Amelia Vankeuren**, Sacramento State, Combating Climate change with Mantle Rocks & Developing a Cross –CSU







## STEM-NET WEBCASTS

**Faculty Representation Matters – CSU BUILD Alliance’s Efforts to Mirror Our Students for Health Equity** (February 4, 2022)

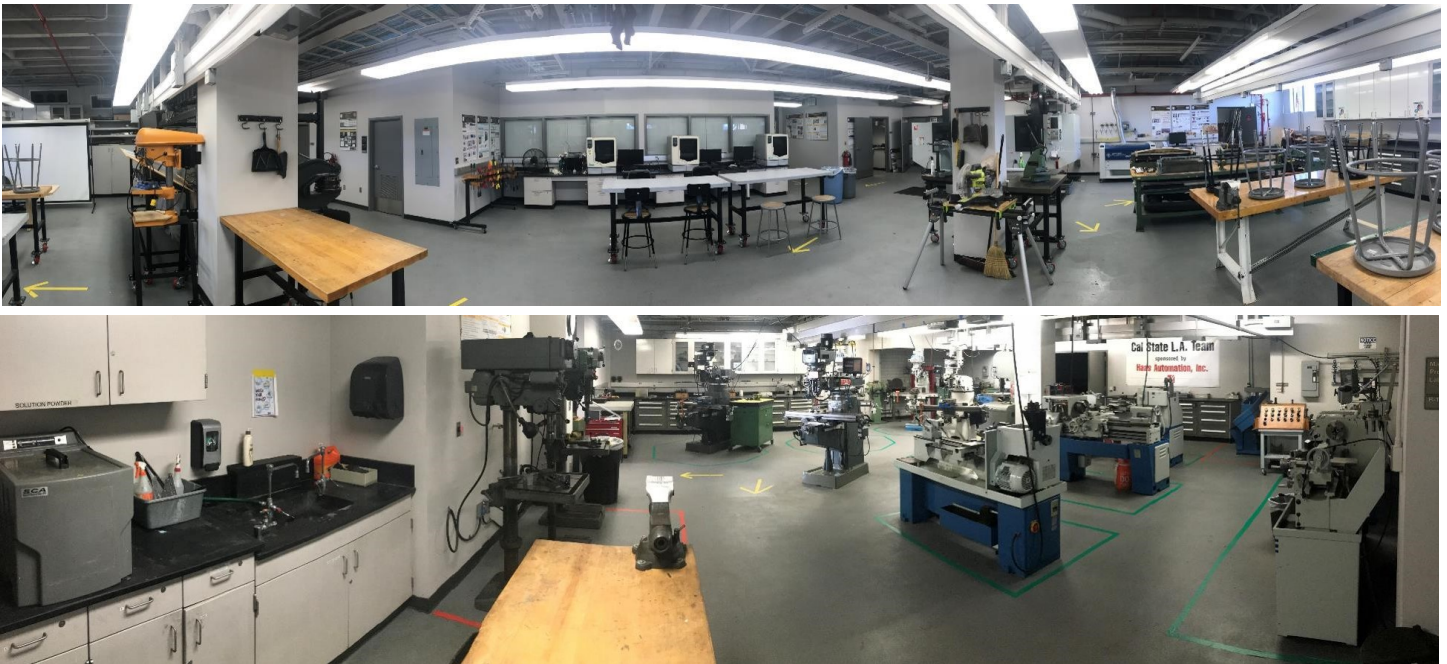
**Kirsten Bibbins-Domingo**, UCSF, Faculty Representation for Sustainable Transformation of Science & Health

**Leticia Márquez-Magaña**, San Francisco State, Assessing Co-Hire Policies for Equitable Faculty Representation

**Laura Henriques & Arturo Zavala**, Cal State Long Beach, CSU Pre-Professor Program: Strengthening the Faculty Pipeline

**Patty Kwan & Jose Vargas**, CSUN, “Critical” Mass: Mentorship and Initiatives to Promote Social Justice Research





## STEM-NET WEBCASTS

**Making in the CSU: Makerspaces, Fab Labs, and Innovation Centers** (March 4, 2022)

**Sinem Siyahhan**, CSU San Marcos, Building a Sustainable Maker Ecology by Connecting Undergraduate Students with Children in Afterschool Programs

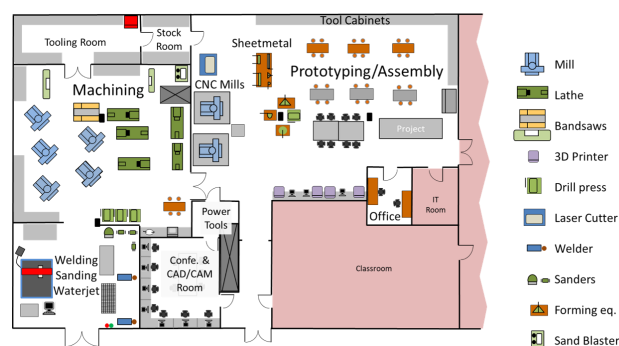
**Lynn Cominsky**, Sonoma State, Dream, Make and Innovate: A Service-Learning Class

**Chris Bachman**, Cal State LA, Creating a Makerspace at Cal State LA

**Andrea Medina & Bobby Hartsock**, CSU Bakersfield, California State University, Bakersfield Fab Lab Best Practices

**Erin Cole**, Cal Maritime, Making a Makerspace: Finding & Fostering a Creative Campus Community

**Mike DeMars**, Cal State Fullerton, Making it Work: Building a Makerspace During a Pandemic







## STEM-NET WEBCASTS

### **NSF Robert Noyce Teacher Scholarship Program and CSU Grantees** (April 8, 2022)

**Michael Ferrara**, National Science Foundation, An Overview of the NSF Noyce Teacher Scholarship Program

**Fred Uy**, CSU Chancellor's office, Dream, The Partnership of MSTI and Noyce Programs Through the Years

**Kimberly Seashore**, San Francisco State, Transforming community through STEM Education - SFSU Noyce STAJES: STEM Teaching Toward a Just and Equitable Society

**Stamatis Vokos**, Cal Poly SLO, Expanding the Reach of a Successful Pre-service Teacher Research Program

**Kathy Hann & Michele Korb**, CSU Eastbay, Supporting Excellence, Effectiveness and Diversity in STEM Education

**Mark Ellis**, Cal State Fullerton, Advancing Teachers of Mathematics to Advance Learning for All: A Four-Year Journey of Growth and Transformation

### **United Nation's Sustainable Development Goals (SDGs)** (April 21, 2022)

**Ganesh Raman**, Chancellor's Office, Welcome, Introduction and Framing of SDG Elements and Data

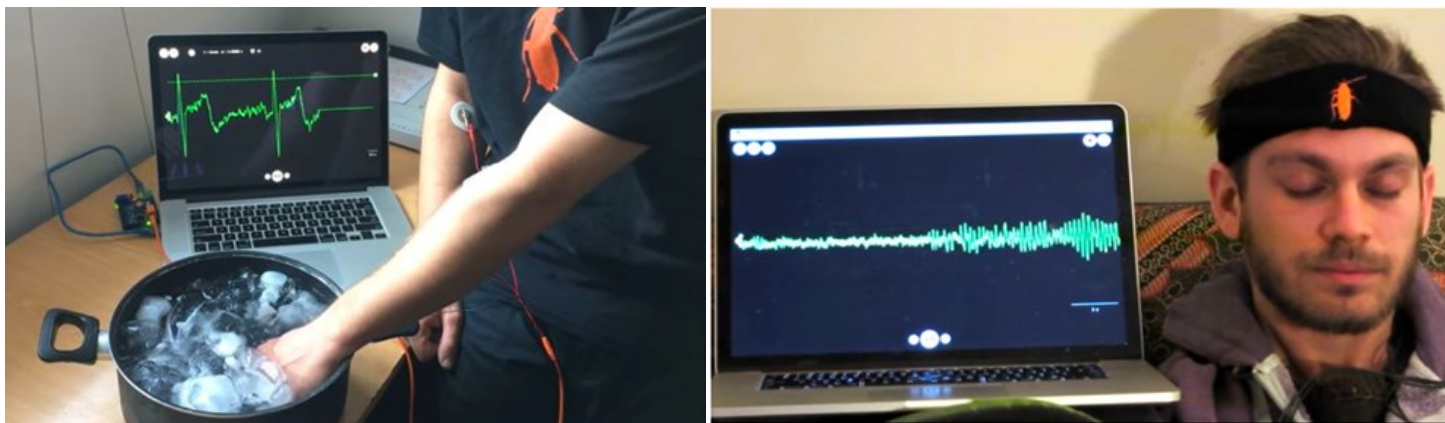
**Debbie Andres and William DeVincenzi**, San Jose State, Complete SDG Assessment for San Jose State University

**Jun Bando**, CCST, United Nation's Sustainable Development Goals: Trends and Opportunities

**Emma V. Sanchez**, SFSU, Nutrition and Health Equity: The Role of Policies and Built Environments

**Arne Jacobson**, Cal Poly Humboldt, Creating Institutions to Support SGD Progress: Quality Assurance for Off Grid Solar Products





## STEM-NET WEBCASTS

### NSF EHR Core Research (ECR) Program and CSU Grantees (May 20, 2022)

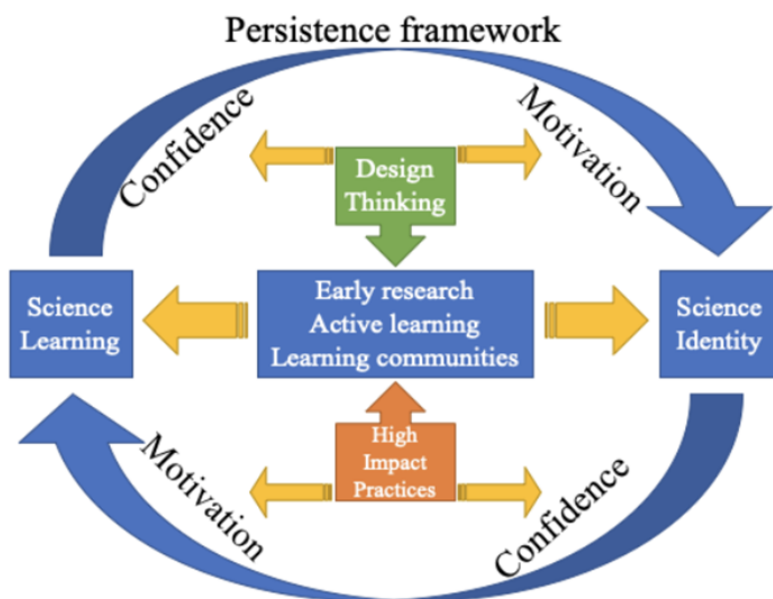
**Earnestine Easter**, National Science Foundation, NSF EHR Core Research (ECR) Program

**Philip Vieira**, Cal State Dominguez Hills, Supporting Student Success through a Combination of High Impact Educational Practices and Asset-Based Training

**Dustin Thoman**, San Diego State University, Diversity Interventions in the Classroom: From Resistance to Action

**Melo-Jean Yap**, San Diego State University, Influential Networks for Women of Color in STEM Community College Pathways

**P. Wesley Schultz**, Cal State San Marcos, Becoming a Scientist: Identity Balance Among Underrepresented Students in STEM







## STEM-NET WEBCASTS

### **STEM Program Assessment and Evaluation** (June 29, 2022)

**Heather Macias & Rachel Part**, CSULB & Meta, The Golden Ticket: When, Why, and How to use a Mixed Methods Evaluation Plan

**Dalton Marsh**, CSUSB, Assessing Self-Perceptions and Habits of Mind in STEM

**Jane Lehr**, Cal Poly SLO, Utilizing and Evaluating Network Improvement Communities (NIC) in CS4All Initiatives

**Nada Rayyes**, CSULB, Supporting Undergraduate Research: Evaluating the CSULB BUILD Program

**Fadi Castronovo**, Castronovo LLC, Assessing Beyond knowledge and skills. Measuring and Evaluating Self-Efficacy, Engagement, Identity, and Sense of Belonging in Summer Research Programs.







## VIRTUAL RESEARCH CAFÉ 10.0

The Café brings together CSU assistant professors to help foster research collaborations across the CSU system and catalyze the submission of intercampus proposals. Each café involves three Assistant Professor's research and ideas (10 minutes) for future work. Q&A takes place during the virtual mixer following the presentations.

**Café** (September 17, 2021)



### **Dr. Santosh KC**

Assistant Professor  
Department of Chemical and Materials  
San Jose State

**Presentation Topic:** Surface and Interface Properties of 2D Materials



### **Dr. Liz Kyonka**

Assistant Professor  
Department of Psychology  
Cal State East Bay

**Presentation Topic:** Functional Assessment of Technology Use



### **Dr. Wing To**

Assistant Professor  
Department of Physics  
Stanislaus State

**Presentation Topic:** Adaptive Interdisciplinary Research into Atmospheric Effects of California Wildfires



## Café (October 15, 2021)



### **Dr. Jorjeta Jetcheva**

Assistant Professor

Department of Computer Engineering

San José State

**Presentation Title:** Personal Knowledge Assistants



### **Dr. Tianjun Lu**

Assistant Professor

Department of Earth Science & Geography

CSU Dominguez Hills

**Presentation Title:** Promoting Healthy Communities through Transportation and Environment



### **Dr. Breanna Putman**

Assistant Professor

Department of Biology

Cal State San Bernardino

**Presentation Title:** The New Normal: What makes animals prepared to survive wildfires?

## Café (November 19, 2021)



### **Dr. Kristi Closser**

Assistant Professor

Department of Chemistry and Biochemistry

Fresno State

**Presentation Title:** Using Quantum Chemistry to Study Photodegradation of Persistent Organic Pollutants



### **Dr. Raisa Hernandez Pacheco**

Assistant Professor

Department of Biological Sciences

Cal State Long Beach

**Presentation Title:** Rhesus Macaques as Models of Life History Theory and Population Dynamics





**Dr. Louise Edwards**

Assistant Professor  
Department of Physics  
Cal Poly San Luis Obispo

**Presentation Title:** Hidden Worlds at Dawn and Dusk: Mitigating the effects of Satellite Megaconstellations

**Café** (February 16, 2022)



**Dr. Carlos Rojas**

Assistant Professor  
Department of Computer Engineering  
San Jose State University

**Presentation Topic:** Analyzing 3D Genomic Structures



**Dr. Virginia Isava**

Assistant Professor  
Department of Geology Education  
Cal State Fullerton

**Presentation Topic:** Helping Geoscience Undergraduates Think like Experts



**Dr. Jamie Booth**

Assistant Professor  
Department of Mechanical Engineering  
CSUN

**Presentation Topic:** Bioinspired Solutions to Resist Fracture in Engineering Materials and Interfaces

**Café** (March 16, 2022)



**Dr. Nadia Korovina**

Assistant Professor  
Department of Chemistry and Biochemistry  
Chico State

**Presentation Topic:** Epistemologies of Mathematics







**Dr. Brian Katz**

Assistant Professor  
Department of Math & Statistics  
Cal State Long Beach

**Presentation Topic:** Epistemologies of Mathematics



**Dr. Alexandra Chakarov**

Assistant Professor  
Department of Computer Science & Science Education  
San Jose State

**Presentation Topic:** Creating Relevant, Interdisciplinary Computer Science Curriculum

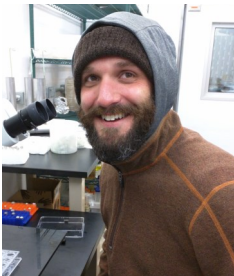
**Café** (April 13, 2022)



**Dr. Ava Hedayatipour**

Assistant Professor  
Department of Electrical Engineering  
Cal State Long Beach

**Presentation Topic:** Wearables of Tomorrow



**Dr. Jason Burke**

Assistant Professor  
Department of Chemistry and Biochemistry  
Cal State San Bernardino

**Presentation Topic:** Understanding the Biochemistry of How Cancer-Associated Mutations Work in Cancer



**Dr. Jaclyn Baughman**

Assistant Professor  
Department of Geology  
Cal Poly Humboldt

**Presentation Topic:** Creating Equitable, Accessible, and Impactful Geoscience Field Experiences Using Virtual Reality



## Café (May 18, 2022)



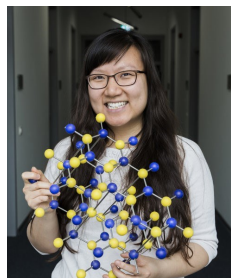
### **Dr. Samantha Leigh**

Assistant Professor

Department of Biology

Cal State Dominguez Hills

**Presentation Topic:** You are what You Eat: Nutritional Physiology in a Changing Marine Environment



### **Dr. Joyce Pham**

Assistant Professor

Department of Chemistry and Biochemistry

Cal State San Bernardino

**Presentation Topic:** Extended Solids: Experiment & Computation in Synergy



### **Dr. Long Wang**

Assistant Professor

Department of Civil & Environmental Engineering

Cal Poly San Luis Obispo

**Presentation Topic:** Sensing Nanocomposites for Structures and Human

## Café (June 15, 2022)



### **Dr. Jeyoung Woo**

Assistant Professor

Department of Civil Engineering

Cal Poly Pomona

**Presentation Topic:** Do It Right the First Time – Transfer Pathway Program & Quality Management Practice



### **Dr. Divya Sitaraman**

Assistant Professor

Department of Psychology

Cal State East Bay

**Presentation Topic:** Sleep, Unpredictability and Behavioral Choice: You Are Not the Only One with Problems





**Dr. Gerald Cobian**

Assistant Professor

Department of Biological Sciences

Chico State

**Presentation Topic:** Foliar Fungal Endophytes as Early Colonizers of Leaf Decay Communities







## ACHIEVEMENTS

### **A Centralized hub (Think Tank) for Dissemination of Best Practices for CSU-funded USDE HSI STEM and Articulation Program Projects**



In collaboration with Cal Poly Pomona, Cal State Fullerton, CSU Stanislaus, CSU San Marcos, CSU San Bernardino, CSU Sacramento, and CSU Bakersfield, STEM-NET obtained funding (\$35,000,000; \$525,000 to STEM-NET) from the United States Department of Education. (ED). This is a collaborative effort to develop a centralized hub for dissemination of best practices and broker ideas, stimulate debate, and offer creative yet practical solutions to tackle the most pressing problems in STEM education.

### **Collaborative Research: AI Education for Social Good (AI4SG): Broadening AI Education Among Undergraduate Students**



In collaboration with San Jose State, CSU Long Beach, Cal Poly Pomona, and CSU San Bernardino, STEM-NET obtained funding (\$599,165; \$96,812 to STEM-NET) from the National Science Foundation. This project aims to develop, implement, and generate evidence-based practices for interdisciplinary, community-engaged, and inclusive artificial intelligence (AI) education among undergraduate students by using AI for social good (AI4SG).



## ACHIEVEMENTS



### **Project Description: Establishing a CSU Community of Expert Rubin Observatory Users**

In collaboration with Cal Poly San Luis Obispo, Cal Poly Pomona, CSU Stanislaus, San Diego State, and the Vera C. Rubin Observatory, STEM-NET obtained funding (\$987,834; \$52,953 to STEM-NET) from the National Science Foundation. This project will establish a pathway for undergraduate students and faculty to become expert users of the Rubin Science Platform (RSP) and engage in science prior to the observatory's first public data release in 2024.



### **CREST Center for Advancement toward Sustainable Urban Systems**

In collaboration with Cal State LA, STEM-NET obtained funding (\$5,000,000; \$116,927 to STEM-NET) from the National Science Foundation. This project will create a hub for urban sustainability that will advance energy and water research, and expand opportunities for students to engage in intensive STEM education and training.





## ACHIEVEMENTS



### STEM-NET SoCalGas Student Research Fellowship

SoCalGas funded (\$10,000) STEM-NET to support three undergraduate students as part of the SoCalGas Student Research Fellowship program. These students worked collaboratively with a CSU STEM faculty member on a research project during the summer 2022 term and participated in Virtual Research event to showcase their research findings.



**Student Name: Cody Nichols**

Campus: Cal State Dominguez Hills

College Level: Junior

Major: Physics

**Research Title:** Optimizing the Therapeutic using High-Resolution Optical Tweezer Laser Scanning Confocal Microscopy (LSCM)



**Student Name: Connor Bartholomew**

Campus: Cal State Fullerton

College Level: Senior

Major: Computer Engineering

**Research Title:** Wildfire Detection Project



**Student Name: Justin Thomas Self**

Campus: Cal Poly

College Level: Junior

Major: Aerospace Engineering, Concentration in Astronautics

**Research Title:** Virtual Aperture Multispectral Imaging for Atmospheric Reentry Studies Using High-Altitude Reflective Arrays





## ACHIEVEMENTS

### All Things STEM Podcast

On this show we will explore all things STEM. Most importantly we will highlight the incredible work of our CSU STEM faculty, students, staff, administrators and programs. Listen to our podcast here: [www.calstate.edu/all-things-stem-podcast](http://www.calstate.edu/all-things-stem-podcast) or wherever you may listen to your podcast.



### Episodes

#### September 2021

One on One with a CSUN STEM Graduate  
Justice Mena, CSUN Alumni, Department of Chemistry

#### October 2021

Utilizing Citizen Science as a Lens for Research Projects  
Dr. Brittney Beck, Assistant Professor, Teacher Education, Director of the Citizen Scientist Project & Dr. Antje Lauer, Professor, Biology, Cal State Bakersfield

#### December 2021

Cybersecurity at Cal State San Bernardino  
Dr. Tony Coulson, Professor, Information and Decision Science, Cal State San Bernadino

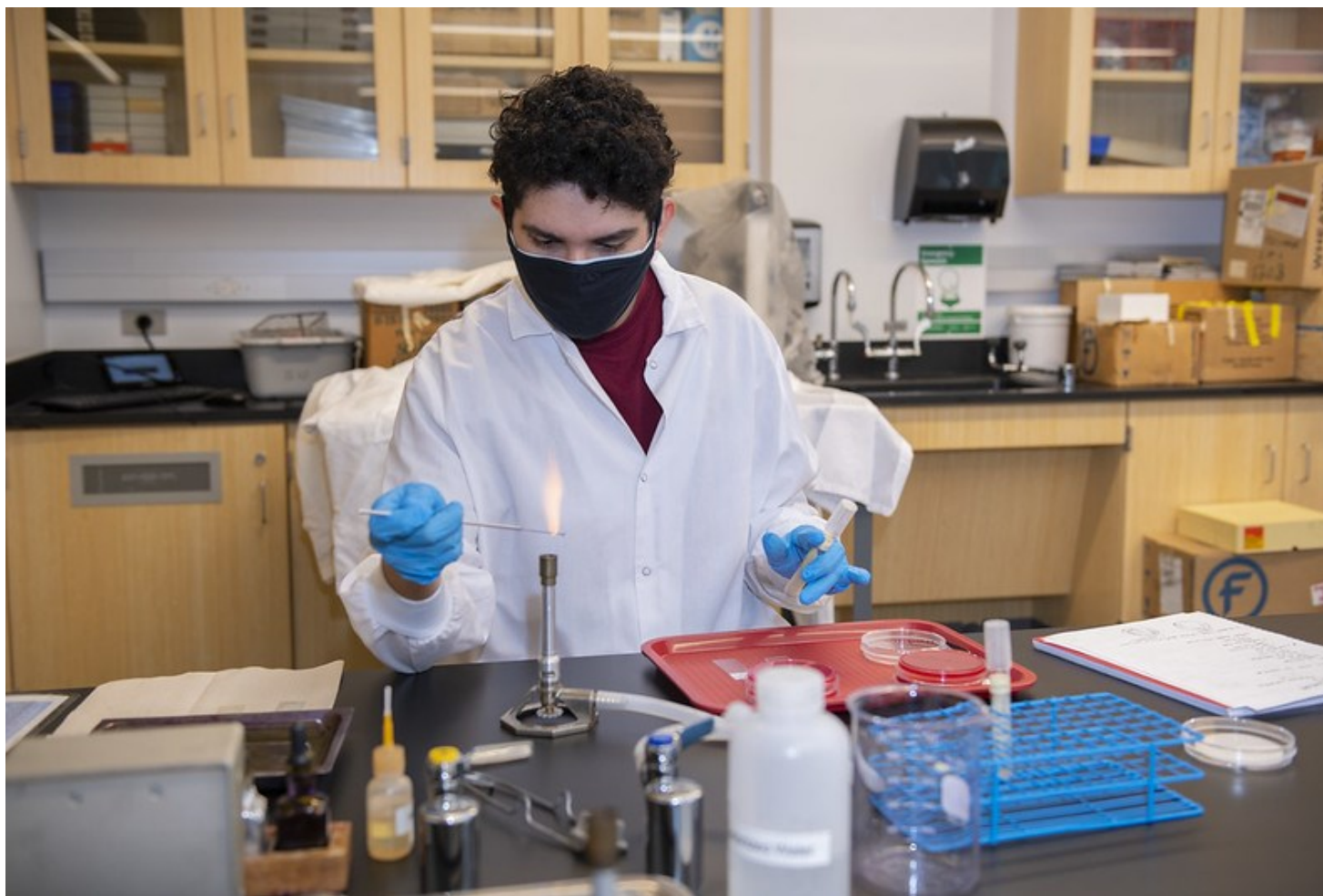
#### March 2022

Sometimes it All Adds Up: Math Professor's Journey from the Barrios of Los Angeles to the White House  
Dr. Richard A. Tapia, University Professor, Computational & Applied Mathematics, Rice University

#### April 2022

Discovering the Mysteries of the Universe and Paving the Way for Black Women in Astronomy and Physics  
Dr. Louise Edwards, Assistant Professor, Physics, Cal Poly San Luis Obispo





## ACHIEVEMENTS

### Episodes

#### May 2022

The Power of Mentorship

Dr. Keith Trujillo, Professor, Psychology, Cal State San Marcos

#### June 2022

Teacher of Color Issues, and the Development of Culturally and linguistically Diverse Learners in STEM settings

Dr. Tina Cheuk, Assistant Professor, Elementary Science Education, Cal Poly San Luis Obispo





## ACHIEVEMENTS

During the past year, STEM-NET has:

- Facilitated the development and submission of over seven multi-campus proposals.
- Continued to obtain funding from federal and private sources to ensure the future sustainability of STEM-NET.
- Facilitated collaborative STEM-based research and education programs and initiatives across the CSU system and with external partners.
- Developed and produced 10 webcasts covering topics as diverse as STEM program assessment and evaluation, the CSU BUILD programs, and the NSF RAPID and EAGER grantees.
- Developed and produced seven podcasts highlighting the research and scholarship of CSU faculty and students.
- Promoted STEM educational and research achievements of faculty and students of all
- 23 CSU campuses.
- Effectively managed and budgeted for all STEM-NET activities.





## FINANCIALS

In academic year 2021-22 STEM-NET made significant investments in faculty and student research to enhance CSU STEM education and research.

This year STEM-NET:

- Provided \$83.023 directly to CSU faculty members and students.
- STEM-NET awarded funds to 11 faculty members at 11 CSU campuses. It also awarded funds to 3 undergraduate CSU students from 3 different campuses.

### Budget Allocation

|                                       |                 |
|---------------------------------------|-----------------|
| Salaries, Wages, Benefits             | \$ 373,014.00   |
| Operating                             | \$ 122,511.00   |
| Faculty Grants                        | \$ 239,286.00   |
| System-Wide Account Carry Over        | \$ 180,665.00   |
| Federally Funded Grants and Contracts | \$ 396,023.00   |
| Foundation Gifts and Grants           | \$ 16,210.41    |
| Sub-total Budget Allocation           | \$ 1,327,709.41 |

### Budget Operating Expenditures

|                                       |               |
|---------------------------------------|---------------|
| Salaries, Wages, Benefits             | \$ 377,054.42 |
| Supplies and Services                 | \$ 55,360.93  |
| Faculty Grants Dispersed              | \$ 75,526.00  |
| Federally Funded Grants and Contracts | \$ 142,205.06 |
| Foundation Gifts and Grants           | \$ 8,278.35   |
| Sub-total Operating Expenditures      | \$ 658,424.76 |





## VISION OF SUCCESS

Increase external funding & broaden funding streams for STEM-NET to sustain programs & operations.

Further develop webcast and podcast program content exploring a broader array of topics.

Increase the development of collaborative proposals with faculty and catalyze multi-campus initiatives.

Pilot new and diverse programs involving different segments of the CSU.

Further disseminate research and educational best practices of the CSU.

Build more STEM communities of excellence across disciplines and the CSU.



## STEM-NET GOVERNING BOARD

### PRESIDENTIAL CONSORTIUM



**Dr. Jeffrey D. Armstrong**  
President  
Cal Poly San Luis Obispo



**Dr. Adela de la Torre**  
President  
San Diego State



**Dr. Ellen Junn**  
President  
Stanislaus State



**Dr. Lynn Mahoney**  
President  
San Francisco State

### STEERING COMMITTEE



**Dr. Debra Larson**  
Provost  
Chico State



**Dr. Carl Kemnitz**  
Provost  
CSU San Marcos



**Dr. Alison Baski**  
Dean, Sciences & Engineering  
Cal Poly Pomona



**Dr. Emily Allen**  
Dean, Engineering  
Cal State LA



**Dr. Michael Kaufman**  
Dean, College of Science  
San José State

