



# Students Transitioning to Engaged and Motivated Success



SDA 2021 was a huge success. We ran a two-week program from July 6 to July 17. Staff, faculty, and peer mentors worked hard to provide engaging activities for 21 students over Zoom. Some activities were done virtually like Math and Daphnia on Drugs. Other activities were hands on like the laser activity and telescope night. Students participated in a total of 30 different activities.

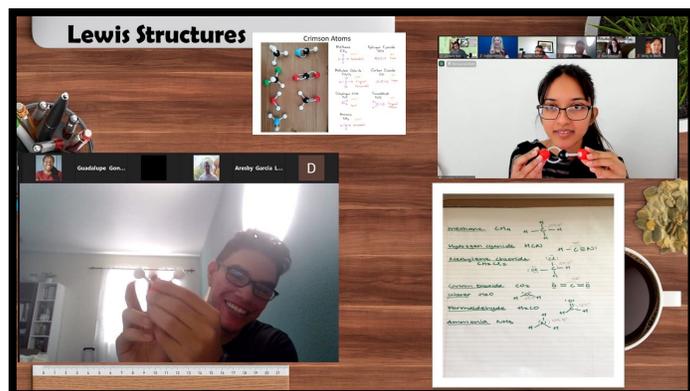
### Neighborhood Geology

Dr. Nari Miller introduced the students to field work by leading them on a neighborhood geology activity. Students learned how to draw a map of their neighborhood and then used that map to make notes of rocks at different locations. Dr. Miller then used some of the descriptions to help identify the rocks students found. This activity taught the students how to make field observations, and they learned how to piece together the history of various rocks.

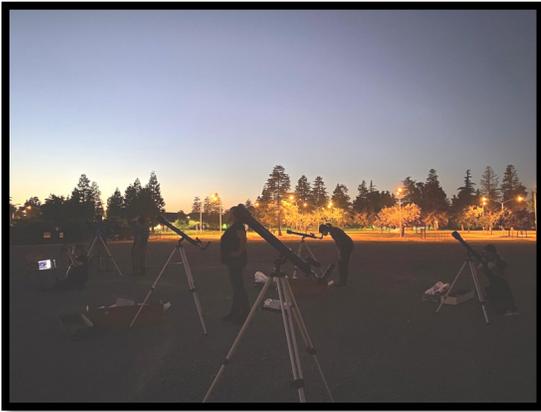


### Lewis Structures

Dr. Nhu Y Stessman and Dr. Chad Stessman helped our students explore Lewis Structures with molecular modeling kits. The students learned the basics of electron bonds and how those bonds affect molecular shapes. Working through basic molecules, the students will be more comfortable and confident when presented with these molecular concepts in their classes.



# SDA cont.



## Telescope Night

Dr. Brian Morsony led our students through a virtual telescope night. Each participant was given their own personal telescope. We helped students assemble the telescopes and become familiar with how to use it. Once that was done, Dr. Morsony navigated our students through the night sky to find the moon, Venus, a binary star in Cygnus, and a bright red star in Scorpius. Those who chose to stay up past bedtime also got to see Saturn and Jupiter.

# Spring Summit

On Saturday April 17, 2021, we held our first Spring STEM Success Summit. The popularity of our Fall summit led to creating an additional opportunity to gather with local community colleges staff and faculty with Stanislaus State's in the Spring. During our Spring Summit we gathered 38 faculty and staff from 7 different campuses. Together they discussed current challenges for STEM transfer students such as engaging in remote learning and finding the best way to reach advisors. Participants discussed thoughts on the opportunities and obstacles our students face with remote instruction. We held a Transfer Student panel on "Navigating The Transfer Process Remotely". Community College staff and faculty also had a chance to share their experience with our Community College Panel. The biggest discussion was our breakout session where groups discussed "Opportunities and Obstacles with Remote Instruction". The event concluded with a research presentation by our WOW 2 STEM and RISE students on the Air Quality Project.

**3 Components of STEM Success**

- WOW 2 STEM (Warriors on the Way to STEM)**
  - Transfer Student focused
  - Articulation
  - Advising
- SDA (STEM Discovery Academy)**
  - Residential and non-residential summer academy programs
  - Introduction to research and labs
  - STEM related fieldtrips
- RISE (Research & Immersion for STEM Excellence)**
  - Paid research for STEM students and faculty
  - Conference and travel grants
  - Supplies and equipment
  - NSCI 1000

Stanislaus State 60 YEARS 1951-2021

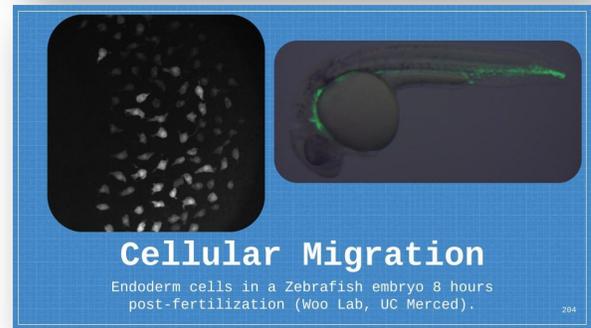
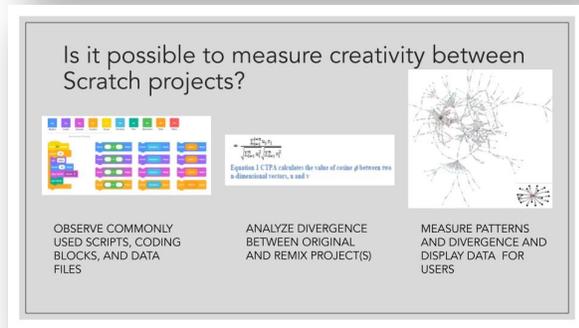
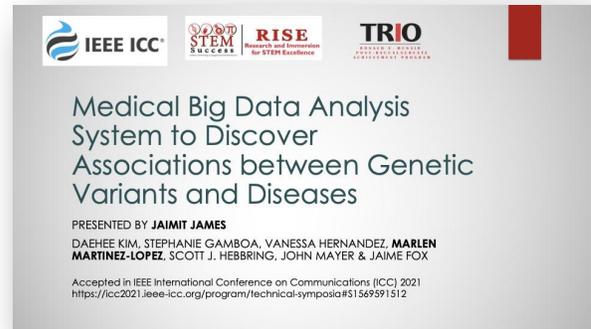
Elizabeth Monroe



Our next summit will be on October 23, 2021. If you would like to learn more, please contact our Transfer Specialist, Elizabeth Monroe at [emonroe@csustan.edu](mailto:emonroe@csustan.edu).

# RISE Research Celebration

On May 12, 2021, we held the RISE Research Celebration on Zoom. This was an event to celebrate all of the RISE projects our students have done over the past year. Students research teams were asked to present lightning talks of 3-5minutes each. We heard from a total of 8 research groups. The topics spanned across disciplines, and we learned about air quality, zebrafish, data aggregates, and more.



# Impacts of STEM Success

STEM Success was featured in the Journal of the Alliance of Hispanic Serving Institution Educators 2021. In [“The STEM Success Program at California State University, Stanislaus”](#), Dr. Harold Stanislaw, Iqbal Atwal and Missy Lebray reported on the progress of the grant over the past 5 years. The article highlighted how WOW 2 STEM, the STEM skills course for freshmen, RISE, and SDA has greatly increased the number of students from underrepresented groups who are on track to complete STEM degree.

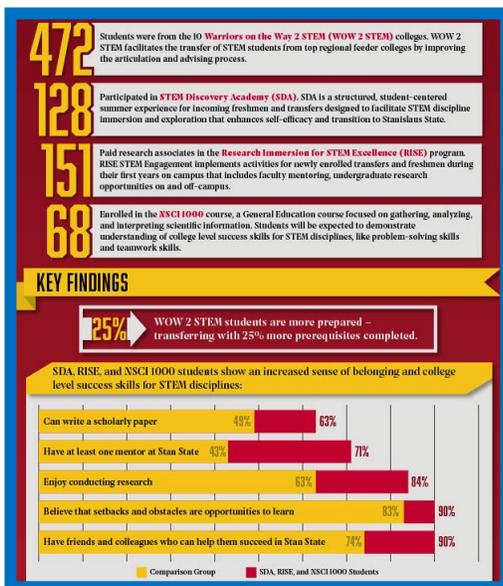
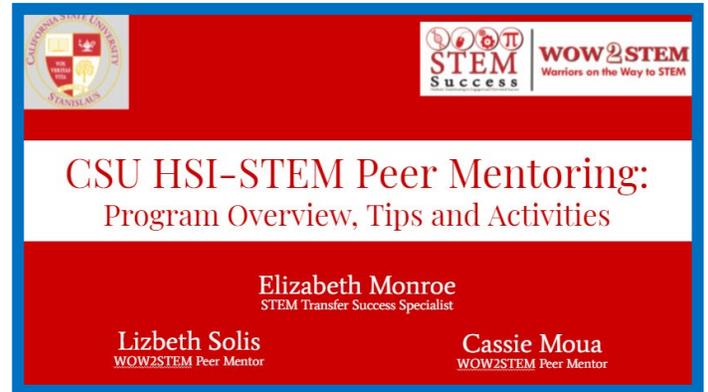


Dr. Harold Stanislaw and Iqbal Atwal were also featured in the STEM-Net [“US Department of Education HIS STEM Grantees Webcast”](#) on July 22, 2021. They presented on the challenges our students face and our student success stories.

# STEM Training and Outcomes

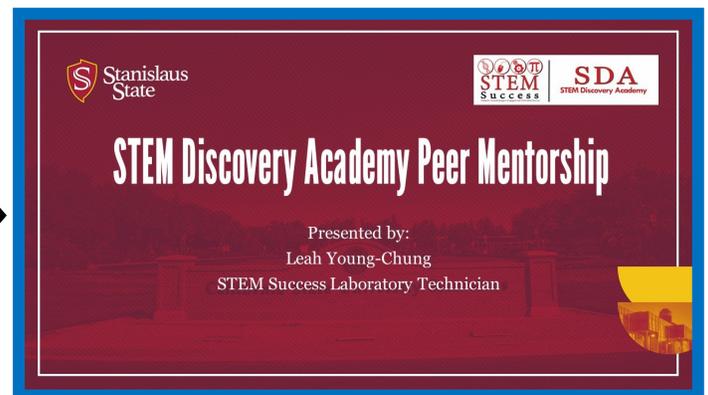
STEM Success programs run with the help of Peer Mentors. Our staff has created some videos and images highlighting the training we do with them and the student outcomes so far. Click the thumbnails to view the media our team has put together.

Elizabeth Monroe, the STEM Transfer Specialist, along with the WOW 2 STEM peer mentors, created this video about STEM Peer Mentoring. They covered the program overview, tips, and activities the peer mentors do. Click the image to view.



Missy Lebray, the STEM Data Analyst, compiled significant numbers from 2016-2020 to showcase the impact of our various programs outcomes. These numbers have been put together on a handy infographic. Click the image to learn more.

Leah Young-Chung, the STEM Lab Technician, created this video highlighting the SDA Peer Mentor training and how it helps the peer mentors connect with their mentees over the two week program. The video features quotes from our most recent peer mentors. Click the image to view.



Connect with STEM Success

Visit our webpage: [www.csustan.edu/stem-success](http://www.csustan.edu/stem-success)

Or email us: [stemsuccess@csustan.edu](mailto:stemsuccess@csustan.edu)

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