



Research for Inclusive STEM Education Center

Arizona State University



May 2023 Newsletter

Upcoming events

Thursday May 11, 9 am AZ time

Virtual seminar on [Zoom](#)

Examining the US premed path as an example of discriminatory design

Barret Michalec

Thursday June 1, 9 am AZ time

Virtual seminar on [Zoom](#)

What am I actually measuring? The role of validity evidence in STEM education research

Regis Komperda

SAVE THE DATE:

October 18th, 9-5pm AZ time

STEM Inclusion Summit

Arizona Ballroom

Opportunities to present posters!

New RISE Center publications

RISE Center core faculty member Chris Mead and affiliate faculty member Ariel Anbar published a [study](#) comparing learning outcomes to in-person and virtual field learning.

RISE Center core faculty member Darryl Reano published a [study](#) looking at the intersectionality of one's identities on their geoscience identity and experience in the geosciences.

RISE Center core faculty member Katey Cooper and RISE Center Director, Sara Brownell, published a [study](#) that examined the relationship between research anxiety and intent to pursue scientific research careers.

RISE Center researchers Carly Busch and Tasneem Mohammed, along with RISE Center faculty Katey Cooper published a [paper](#) on the costs and benefits of revealing depression to online science instructors.

RISE Center core faculty member Meseret Hailu published an [editorial](#) on the importance of partnering with African universities when conducting research.

RISE Center core faculty member Meseret Hailu published a [comparative project](#) studying the impact of policy mandates on gender and higher education in African Universities.

RISE Center core faculty member Meseret Hailu was an author on a published [literature review](#) about Native and Black students' perspectives of campus climate in higher education.

RISE Center core faculty member Rod Roscoe just had his paper published on creating equitable and inclusive AI for education. Read more about his work [here](#).

RISE Center awards, celebrations, and noteworthy accomplishments

RISE PhD student Tasneem Mohammed is part of the 2022 APS CPE Physiology Education Research Working Group who produced this [resource for biology education research](#).

Prior RISE PhD student – now Assistant Director for STEM at Brown University – Logan Gin was invited to be a panelist in the Society for Laboratory Automation and Screening (SLAS) International Conference on "Accessibility in the Lab Panel Discussion" and a speaker at American Association for the Advancement of Science (AAAS).

RISE Director, Sara Brownell, won the Founder's Day Teaching Achievement Award. Read more about her award [here](#).

RISE Center affiliate faculty member Ara Austin and Associate Director member Kristen Parrish were both recently celebrated during Women's History Month for their roles in advancing STEM education. Read about their accomplishments [here](#).

RISE Center Associate Director Kristen Parrish was awarded the Outstanding Architectural Engineering Educator Award from the [American Society of Civil Engineers](#).

RISE Center core faculty Naneh Apkarian will be teaching **MTE 598: Special Topics: DEIJ Research in Undergraduate STEM Education** during the Spring 2024 semester. This graduate-level course focuses on issues of equity, access, and social justice in undergraduate STEM education and aims to engage future academics in developing an understanding of why there is a mismatch between those engaged in STEM degrees and those engaged in STEM careers, why this persists, and how to begin to effect meaningful change. Coursework will consist of weekly readings and reflections, occasional presentations, in-class discussions, and term papers.

RISE Ambassadors

The RISE Center welcomed a new group of undergraduate students who want to get involved with identifying and improving diversity, equity, and inclusion issues at ASU. They have been integral in helping with both our research and creating comprehensive guides for students and faculty covering food insecurity, mental health, disability, refugee status, and first generation students. Scroll down to read more about each of our ambassadors!



Mena Abdullah

Mena is a junior majoring in Biomedical Sciences with an Arabic Certificate. She was born in Iraq and came to Arizona as a refugee. As both a first generation student and a refugee, she has become really interested in further investigating the role of higher education in refugees' experiences and the resources available to them to set them up for success. She hopes to apply her passions further in the field of medicine. Outside of academia she enjoys working out, playing volleyball, practicing henna designs, and spending time with family.

Antara Bhargava

Antara is a junior majoring in Neuroscience. She was born in India but has lived all over the world, and her family currently resides in Northern California. She is passionate about helping underrepresented students gain access to resources that would help give them the skills and confidence they require while pursuing a degree in STEM. In her free time, she enjoys reading, painting and doing yoga.



Vivian Bui

Vivian is an Arizona native pursuing her bachelor's degrees at Arizona State University. She is a junior double-majoring in Neuroscience and Biological Sciences with a concentration in Neurobiology, Behavior, and Physiology. Vivian is interested in researching the impact of concealable stigmatized identities (CSIs) on college students in STEM. In her free time, she likes to explore various local boba shops, solve jigsaw puzzles, and play board games with her friends.

Hailey Bunch

Hailey was born and raised in Arizona. She was born in Phoenix and moved to Tonopah for middle school and high school. She is a junior currently pursuing a degree in Biomedical Sciences with a minor in Religious Studies. In her free time, she enjoys drawing or engaging in other forms of art. She also loves to play with her dog Boyd and spend time with family and friends.



Ren Dickson

Ren is a Junior majoring in Biomedical Sciences. He is interested in researching ways to address resource insecurity in undergraduate and graduate students at ASU through an equity and inclusion approach through the RISE Center.

Analy Granados

Analy is a first-generation fourth year student at Arizona State studying Biomedical Sciences, and minoring in Sociocultural Anthropology. Driven by her personal experience facing socioeconomic barriers in education, she is interested in evening the playing field for marginalized students affected by cultural and inclusivity-related obstacles in STEM. She hopes to become a dentist to serve the local community and participate in closing the gap in healthcare accessibility. In her downtime she enjoys reading, going on walks and spending time with her friends and family.



Keith Karuku

Keith is a Junior majoring in Biological Sciences with a minor in Global Health. Born in Kenya and coming to the US as an immigrant, Keith hopes to conduct research that targets the inequities he faced in his own path to STEM education and challenge issues experienced by many other groups as a RISE Ambassador.

Jude Kolodisner

Jude is a third-year senior majoring in biomedical sciences, and he is interested in researching inequities in STEM education that limit students' ability to succeed.



Corinne Mitra

Corinne has lived in Arizona her whole life. She is currently pursuing majors in Biological Sciences (Neurobiology, Physiology, and Behavior) and Neuroscience. She hopes to go to medical school after her undergrad. Corinne is interested in researching how students' mental health affects their ability to learn. She is hoping to make STEM students feel comfortable opening up to mental struggles they endure. In her free time, she enjoys working out, volunteering, and spending time with family and friends.

Kaden Phothivongsa

Kaden is from the northern panhandle of Idaho. She is pursuing a B.S. in Biological sciences (neurobiology and physiology) at Arizona State University. She is interested in what kind of changes can be done in higher education for students who are not given the same opportunities that others have access to and to establish teaching methods that will accommodate all students in the university.

**Hakop Sinoryan**

Hakop was born in Pasadena, California to Armenian immigrants. He is a first generation student majoring in biology with an emphasis in pre-med. His interests include art, manga, and video games. Most importantly his research interests focus on reducing the feelings of depression, anxiety, and imposter syndrome in biology majors, how to utilize research findings in an effective way, and lastly on how to reduce income disparities through realistic means for pre-health students.

Sandy Tran

Sandy is a third year student studying biological sciences with a concentration in biomedical sciences. She's a first generation student born and raised in Phoenix, Arizona. Some of her hobbies include hand embroidery, spending time with family, and trying out new cafes. With regards to research, she is interested in researching how to improve mental health awareness and inclusivity in the undergraduate STEM community.



Vincent Truong

As a sophomore pursuing education in Psychology, Biochemistry, and a minor in Disability Studies, Vincent is excited to explore ways to improve accommodations and resources for the dis/abled community here at ASU. His participation in the SOCIAL research lab has encouraged him to seek ways to implement research into tangible policies as a RISE ambassador. He plans to work with the SAILS team to identify challenges and communicate ideas from the student body. He enjoys working with the community as a dog adoption counselor, baking sweets to share with his family, and training in taekwondo.