

# CAL POLY

## SAN LUIS OBISPO

### OUTSTANDING RESEARCH IN STEM

HANNAH HEATH • NUTRITION SCIENCE



**H**annah Heath is a nutrition science major who transferred from MiraCosta community college in fall of 2019. She began working as a research assistant with Dr. Michael La Frano, where she discovered a love for metabolomics and nutrient metabolism. She received the Doris A. Howell Foundation's CSUPERB Research Scholar Award for her investigation of gestational diabetes prevention via improvement of metabolic markers. Her research has made her passionate about pursuing a career in academia and continue engaging in the study of metabolomics. As a disabled student, Hannah is passionate about increasing accessibility and disability inclusion in academia. She founded the Disability Resource Center Student Advisory Committee dedicated to improving accessibility within the DRC and beyond. As head of the committee, she worked to provide student-led accessibility trainings for Orientation and ASI Student Government. She also launched a successful campaign to instate a Secretary of Accessibility office within the Executive Board of ASI to ensure that students with disabilities are represented in student government. She is a proud member of the SciAccess Working Group, the Disability Studies Society, and Cal Poly's Inclusive Design Champions and is excited to continue supporting and celebrating students with disabilities throughout her academic career. Her goal is to obtain a Ph.D. in biochemical and molecular nutrition, become a professor and researcher of nutrient metabolism.

### OUTSTANDING COMMITMENT TO CREATING A MORE EQUITABLE WORLD THROUGH RESEARCH

AMMAN ASFAW • ELECTRICAL ENGINEERING



**A**mman Asfaw graduated with a B.S. and M.S. in electrical engineering in 2020 and 2021, respectively. He is a first-generation student and Ethiopian-American raised in Thousand Oaks, CA. Amman went from a 2.7 GPA his freshman year to a 3.0 GPA his senior year and finished with a 3.7 GPA in his fifth and final year. Amman invented, researched, and published The CAR Strategy, a framework for driving out exclusionary terminologies in engineering education. Amman taught two quarters of Cal Poly's undergraduate Electric Circuits laboratory, and he authored his own column, Gen Z(eal), in the American Society for Engineering Education's Prism magazine. Amman's involvements included the Cal Poly's National Society of Black Engineers, Black Student Union, and Sigma Nu Fraternity. Amman served on the City of San Luis Obispo's Diversity, Equity & Inclusion (DE&I) Task Force which lobbied the City Council to elect DE&I as one of its five Major City Goals for 2021-23. Amman travelled to 11 states, 10 countries and hosted a live streamed event with then-orbiting astronaut, Victor Glover. Amman is a small business owner of his own brand, AMMAN LLC, with the vision: first, apparel to get the wheel turning; next, an autoethnography to get the brain churning; then investment to save Earth from burning. Amman works as a subcontracting engineer in the Bay Area.

### OUTSTANDING SERVICE/LEADERSHIP

TEDMAN TRẦN • ELECTRICAL ENGINEERING



**T**edmon Trần graduated with a B.S. in electrical engineering and a B.A. in music with minors in Asian studies and ethnic studies in 2021. Trần is a first-generation student who actively participated in and helped found various professional organizations, music ensembles, and mentorship programs. During the pandemic and virtual learning, Trần served as an instructional student assistant for electrical engineering, mechanical engineering, and history courses. After assisting underrepresented high school students in ethnic studies courses at UC Berkeley, Trần traveled abroad to investigate the role of music and identity in Vietnam and in the Vietnamese diaspora. Trần completed a project through the Summer Undergraduate Research Program on the role of race, capitalism, modernity, and identity among Vietnamese women in French-colonized Vietnam. Trần also participated in the STAR program which empowers future teacher-researchers. Trần helped develop alternative acoustical methods to detect minke whales with the NOAA Fisheries Southwest Acoustic Ecology Lab. Trần received several awards, including the Asian Pacific Islander Faculty and Staff Association Student Scholarship and the President's Diversity Award nomination for continually strengthening the AAPI communities in San Luis Obispo and in the SF Bay Area. Trần received the Service to the Arts award as well as two scholarships related to inclusive and equitable K-12 STEM teaching—the School of Education Scholarship from the Center for Engineering, Science, and Mathematics Education and the Noyce Fostering Integrated Responsive Science Teaching Scholarship. Trần started the single-subject teaching credential in physics program at Cal Poly in fall 2021.

### OUTSTANDING COMMITMENT TO CREATING A BETTER WORLD THROUGH RESEARCH

ADA TADEO • BIOMEDICAL ENGINEERING



**A**da Tadeo is a first-generation student who graduated with a B.S. in biomedical engineering. She was employed as a co-op at Edwards LifeSciences where she trained clinical specialists on a device that is used to treat patients with tricuspid valve. Ada has conducted various research studies with the Microcirculation and Vascular Regeneration laboratory on campus, investigating impacts of cardiac diseases on vascular function to discover alternative methods of treatment for patients experiencing chronic ischemia. She earned the grand prize at the Society of Hispanic Professional Engineers's Engineering Science Symposium, as well as an outstanding research presentation award at SACNAS. Ada was also selected to participate in the 2019 LSAMP Summer Research Expedition in Costa Rica where she contributed to ongoing research of biodiverse ecosystems and environmental sustainability. Ada has become passionately active in multiple outreach efforts with Edwards LifeSciences, SHPE, and Cal Poly's Engineering Possibilities in College summer program. She served as a counselor, mentor, and teacher to young students from underserved communities to inspire and offer advice in pursuing higher education in engineering and STEM. She hopes that sharing her experiences will guide the next generation of BIPOC students to successful academic careers.

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