

Zachary Whaley

Undergraduate Researcher
Center for Biodiversity Outcomes
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ACADEMIC BACKGROUND

B.S. Biological Sciences (Conservation Biology and Ecology) - Arizona State University May 2024
B.A. Global Health - Arizona State University May 2024
Minor in Political Science - Arizona State University May 2024

AWARDS/ACHIEVEMENTS

EPICS Rising Star Award (2021)
Delegate for Arizona, National Youth Science Camp (2020)
National Merit Scholarship (2020)
Elks Lodge Scholarship Recipient (2020)

RESEARCH INTERESTS

Conservation Biology
Restoration Ecology
Community-based Conservation

RESEARCH

Cramer Lab August 2022 - Present
<https://katielcramer.com/>
Undergraduate Researcher
Performed literature reviews to find data on eutrophication of coral reefs in the Caribbean. Used Arcgis Pro to map study sites and analyze health of Caribbean coral reefs. Compiled and analyzed water quality data using Excel and R.

Arizona Game and Fish Department Phoenix, AZ May 2022 - Present
Research Intern
Performed wildlife, floral, and herpetofaunal surveys on grasslands and riparian areas with a variety of field techniques. Navigated using GPS to remote riparian areas to place camera traps and collect data on wildlife presence. Analyzed camera trap data and performed data entry tasks.

Redding Lab August 2021 - May 2022
Barrett Honors College Fellow
Conducted molecular biology research on metabolic and photosynthetic pathways with Heliobacteria. Designed and performed experiments on cultured bacteria including conjugations, transformations, and cloning.

Hurtado Lab January 2022 - May 2022
Research Assistant
Entered data for research on Covid-19 trends within indigenous communities in South America. Communicated with NGOs in South America in order to collect and clarify data.

PROFESSIONAL EXPERIENCE

Arizona State University Tempe July 2021 - Present
Community Assistant
Supervised 70 residents within the Arizona State University residential communities. Demonstrated strong interpersonal skills. Utilized Microsoft suite in order to keep track of resident concerns and interactions. Planned events to increase resident affinity and involvement in the community.

National Youth Science Foundation May 2021 - July 2021

Cabin Leader

Planned and lead scientific and social activities for 20 international and domestic delegates for National Youth Science Camp.

Bank of America Phoenix, AZ

June 2020- July 2020

Student Leader

Collaborated with the Boys and Girls Club of Metro Phoenix to develop a story banking process. Attended leadership trainings and created a health care advocacy platform to raise awareness of inequality in health care.

ACTIVITIES/MEMBERSHIPS

Engineering Projects in Community Service, Team Lead

August 2020 - May 2021

Collaborated in a team of 5 to design a water aerator for small scale shrimp farmers in Vietnam. Acted as team lead and professional liaison by condensing team efforts into concise reports for professional presentations. Collaborated with nonprofits to design technology to increase productivity and sustainability of small scale shrimp farming operations in Vietnam.

Arizona Outdoors Club, Membership Director

August 2021 - Present

Planned and lead camping and hiking trips to instill a love for nature within students at ASU. Developed outdoors survivorship skills to successfully complete backpacking trips. Utilized geospatial technologies to plan backpacking routes.

Barrett Sustainability Club, Garden Manager

August 2021 - May 2022

Coordinated gardening efforts by the Barrett community to create a sustainable and local source of food for residents. Educated others on regenerative gardening practices and spearheaded projects to improve garden biodiversity and accessibility.

Barrett Residential Council, President

September 2020 - May 2021

Planned events and advocated for general improvement in the Barrett community. Communicated with university officials. Previewed budgets for programs. Contracted third party vendors for events.

National Youth Science Camp, Alumnus

May 2020 - Present

Represented Arizona at a national level. Attended presentations from scientists in various fields.

Salsa Club, Member

August 2021 - Present

Participated in social dancing events. Used social dancing as a vehicle for intercultural connection.

SKILLS

Soft: Leadership, communication, team management

Technical: Microsoft Suite, Arcgis Pro, R, GPS

Language: English (fluent), Spanish (fluent), Portuguese (Proficient), Indonesian (Intermediate)