

Barrett Mercer

A graduate student prospect who is interested in physical chemistry.

bhmercer@asu.edu
(702)-235-9357

Education

Major: Chemistry (BS) Minor: Anthropology 05/2026
Arizona State University, Tempe, AZ (expected)

Research Experience

Undergraduate Researcher 10/2024 – Present
Principal Investigator: Justin Earley
Arizona State University, School of Molecular Sciences, Tempe, AZ
Chirality detection in biologically relevant sugars using dual-comb spectroscopic polarimetry. Computational chemistry of polarimetry and frequency comb spectroscopy. Development of a time-resolved photoluminescence setup.

Work Experience

Undergraduate Teaching Assistant 08/2025 – Present
Arizona State University – Tempe, AZ
TA for 30 Organic Laboratory students. Gained experience in presenting and teaching students' new information and managing the lab efficiently.

Cart Barn Attendant 06/2021 – Present
Highland Falls Golf Club – Las Vegas, NV
Managed the care of an 80-golf cart fleet and maintained course cleanliness standards. Gained public service and teamwork experience to make operations run smoothly.

Skills & Certificates

Programming: Wolfram Mathematica, Python

Software: Google Suite

Instrumentation & Methods: Physical chemistry lab table-top experience. Basic synthesis techniques.

Languages: French (Beginner)

Certificate of Forensic Science – College of Southern Nevada

Awards & Certificates: New American University Scholarship

Certificates: Arizona State University Dean's List: Fall 22', Spring 23', Fall 24', Spring 25'