

Caitlin Bartels

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Education

San Diego State University

Bachelor of Science, Biology (*May 2023*)

- Summa Cum Laude
- Dean's List (every semester)

Certifications

Basic Life Support for Healthcare Providers

American Heart Association

Issued September 2021

Research Experience

Luque Lab: Architecture and Ecology of Viruses (San Diego State University)

Undergraduate Student Intern for Dr. Antoni Luque, Ph.D

April 2020 - Present

- Publications: “Predicting the capsid architecture of phages from metagenomic data” (Lee et al. 2022)
- Programs: Adobe Illustrator, ChimeraX, Chimera, RStudio, HHpred
- Projects: herpesvirales latency, icosahedral capsid geometric lattices, viral genome annotation, bacteriophage ecology, lysogeny dynamics

Summer Undergraduate Research Program

Luque Lab

May 2021 - August 2021

- Tailored an individual research project on viral genome annotation for presentation at the 2022 Student Research Symposium

June 2022 - August 2022

- Collaborated on a partnered research project on the evolutionary relationship between herpesvirales and tailed bacteriophages related to infection host benefits

Work Experience

Sharp Healthcare Surgeon Shadow

Dr. Emanuel Shapera, MD

August 2022 - Present

- Scrubbed in on general surgical operations.

Kaiser Permanente Physician Shadow

Dr. Amy Wolfner, MD

June 2022 - August 2022

- Sat in on patient exams in the Family Medicine department. Total 46 hours of observation.

Club Z! Tutoring Services

February 2021 - August 2021

- Remote and in-person 1-on-1 tutoring for high school level physics, biology, english, and math (algebra and geometry)
- Provided guidance in the problem solving process, worked with students to create a study plan, and prepared students on future class content

Volunteer Experience

Palomar Health Pathmaker Internship

March 2022 - Present

- Assist nurses & doctors with hands-on routine patient care such as taking vitals, aseptic technique, incentive spirometry, and much more
- Rotations: Surgical Acute, ICU, Neurological Progressive, Emergency Room

American Red Cross

Blood Transportation Specialist

September 2020 - September 2021

- Delivered blood, plasma, and platelet boxes to various San Diego hospitals with organization and efficiency
- Demonstrated my ability to work swiftly in an independent setting
- Accumulated 91 hours of service

American Medical Student Association SDSU

August 2019 - Present

- Created care packages with necessary items for hygiene and PPE for homeless individuals and others in need in San Diego County
- Volunteered for the Aztecs for Life Blood Drive hosted by American Red Cross where I welcomed and promptly checked-in blood donors

Leadership Experience

SDSU Women's Club Water Polo

August 2019 - Present

- Co-Vice President (*April 2022 - Present*): Responsible for organizing team events and tournament travel plans, assisting in executive and financial decisions, and other general team management
- Secretary (*May 2021 - April 2022*): Responsible for the player roster and communication, coordinating tournament details, and other general team management
- SDSU Sports Clubs Team of the Year Award (*2022*)

Mortar Board Honor Society

Jane K. Smith Cap and Gown Chapter

March 2022 - Present

- Mortar Board is a selective national honor society that recognizes seniors for their accomplishments in scholarship, leadership, and community service

Women in Science Society SDSU

February 2020 - Present

- Participated in a leadership panel to help inform fellow club members on how I obtained research and volunteer opportunities during the Covid-19 pandemic
- Peer mentor for the mentor/mentee program, supporting 3 mentees

Extracurriculars

Webshadowers

January 2021 - April 2021

- Earned 19 hours of involvement in a virtual physician shadowing program
- Specialties covered a wide range, including neurosurgery, cardiology, pediatrics, psychiatry, internal medicine, and emergency medicine