

# William Diego

wdiego@ucsd.edu • [\(510\)-452-7014](tel:(510)452-7014) • [LinkedIn](#)

## Education

---

**University of California San Diego** San Diego, CA

Biology, Spec Bioinformatics. GPA: 3.98 / 4.0

**Anticipated June 2026**

Related Coursework: Data structures & OO Design, Discrete math, Mathematics for Algorithms and Systems, Organic Chemistry, and Genetics.

Maintained Provost Honors every quarter

## Experience

---

**Tezcan Lab**

**04/2023 – Current**

*Student Researcher*

- Designed de novo metalloenzymes using machine-learning models to construct new protein scaffolds and sequences.
- Created (expressed) proteins in E. coli and purified with affinity columns.
- Characterized the structure, stability, and enzymatic activity profiles of the designed proteins using techniques such as SDS-PAGE, UV-Vis Spectroscopy, CD Spectroscopy and X-ray crystallography.

**Outback Adventures**

**11/2022 – Current**

*Outdoor Guide*

- Planned and led kayaking, backpacking, and hiking trips for diverse groups of college students to introduce them to beautiful places and grow their self confidence, problem solving skills.

**Kensington Community Council**

**Summers 2018 – 2023**

*Summer Camp Counselor*

- Directed a group of 14-18 elementary-aged kids at organized athletic games, art projects, and strategy games like chess. Prevented calamities. Taught life skills like sharing, cooperation, independence, empathy, and problem solving.

**TeenTechSF**

**08/2018 – 06/2019**

*Workshop Leader*

- Led hands-on workshops around the SF Bay Area. Engaged kids in rapid prototyping and electronic tinkering using technology like MakeyMakey and littleBits, both DIY circuit boards. Encouraged exploration and curiosity by overseeing kids in dismantling computers. Guided kids in developing their own websites.

**Lawrence Hall of Science**

**09/2021 – 06/2022**

*Floor Facilitator*

- Engaged visitors with scientific concepts through hands-on exhibits. Asked guiding questions and suggested alternative options to encourage them to make their own discoveries. Provided them space to learn through mistakes, and proposed changes based on their observations. Initiated conversations, invited participation and made concepts relatable.

## Projects

---

**2D Adventure Game | Java**

- Created a simple 2D adventure game, similar to the original "Legend of Zelda" game.

## Skills

---

**Languages:** Java, Python, SQL, C (basic), C++ (basic)

**Technical:** Github, VIM, Git, AWS, Excel

**Laboratory:** Pymol, RfDiffusion, ProteinMPNN, AlphaFold2, SDS-PAGE, UV-Vis Spectroscopy, CD Spectroscopy, TD Spectroscopy, X-ray crystallography, protein purification, protein expression