

EDUCATION

Columbia University, The Fu Foundation for Engineering and Applied Science Expected Graduation: May 2028

B.S. Computer Science, minor Environmental Engineering, GPA: 4.04, Dean's List

Relevant Coursework: Machine Learning for Environmental Engineering, Advanced Programming, Data Structures in Java, Linear Algebra & Probability, Artificial Intelligence, Alternative Energy Resources, Discrete Math

EXPERIENCE

SUMMER@SEAS, Columbia University 2026

Summer REU Student

New York, NY

- Building zinc coin and beaker cell batteries with quartz crystal microbalance technology (wetlab)
- Designing a RL feedback loop connecting mass change data to adapt current and voltage of the cell to prolong battery life

NSF LEAP-STC, Columbia University 2025 - Present

Data and Compute Intern

New York, NY

- Debugged a GitHub Actions offboarding pipeline processing 50+ users, resolving data-loss bugs in production
- Cleaned and standardized researcher/tier data across 650+ records, resolving duplication and formatting inconsistencies

NSF LEAP-STC, Columbia University; National Center for Atmospheric Research (NCAR) 2025

Summer REU Student

Boulder, CO / New York, NY

- Conducted research at NCAR under Dr. Linnia Hawkins and attended the 30th CESM Conference
- Designed novel machine learning emulators using Gaussian Process Regressors and a nested structure for snow and plant processes in the Community Land Model to improve understanding of snow-shrub interactions in the Arctic and climate projection accuracy
- Presented posters at the Summer Student Conference in Boulder, the Columbia University Research Symposium, the Columbia Undergraduate Data Science and AI Research Fair, and the American Geophysical Union (AGU)

University of California Santa Cruz

2023 - 2024

Ocean Sciences Research Fellow

San Francisco, CA

- Analyzed chlorophyll data from CMIP6 in the North Pacific using R programming (time series, global projections, quantile linear regression, prewhitening then analysis)
- Detected and analyzed correlations between sea temperature and chlorophyll concentration
- Evaluated reliability of simulation data by comparing model and observational (satellite) data

A.I. Camp Inc.

2021 - 2023

Paid Contractor

San Francisco, CA

- Developed and designed the front-end of a Python-based style transfer AI model using Flask and HTML/CSS
- Increased engagement by designing and posting instagram reels and slideshows, managed and monitored advertisements (views, click through rate)
- Visualized data from CS/AI influencers using numpy and pandas to establish sponsorships between AI Camp and other influencers, leading to over 200,000 people viewing AI Camp's advertisements

LEADERSHIP

DivHacks and WICS Eboard Publicity Lead 2024 - Present

Women in Computer Science (WICS), Columbia University

- Lead graphics and brand design for DivHacks, Columbia's largest fall hackathon

CUBJJ EBoard Vice President and Club Sports Governing Board Martial Arts Rep. 2025 - Present

Brazilian Jiu Jitsu, Columbia University

- Automated administrative attendance forms with Google Sheets API and Python
- Managed weekly email communication and social events for over 100 members

Organizing Committee Member, Social Media Committee 2025 - Present

Taiwanese American Student Association, Columbia University

- Designed social media graphics and photographed events

AWARDS

- NCWIT Computer Science Award - 2023 San Francisco Bay Area Affiliate Winner
- [Biology Olympiads](#) - Top 10 internationally, 1st in North America, 2022-2023
- EcoHacks "Best Sustainability Hack" for the development of an ocean plastic detection computer vision model, out of 600 participants, 2022

SKILLS

- **Programming Languages:** Python, Java, R, Arduino, C | **Languages:** English (C2), French (C2), Spanish (B2)