

Tammy Zhang

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EDUCATION

Cornell University, College of Arts and Sciences

Ithaca, NY

BA in Information Science, Concentration in Data Science (GPA: 4.032)

Spring 2024

- Organizations/Awards: Women in Computing at Cornell; Information Science Student Association; Cornell University Becker in Service; Dean's Honors List all semesters

WORK EXPERIENCE

Cornell University

Ithaca, NY

Teaching Assistant for Course INFO 1300: Introductory Web Design and Programming

August 2022 - present

- Led and taught weekly discussion classes with college students on basic web development and coding skills.
- Held office hours to assist with debugging code and designing user-friendly interfaces.
- Graded HTML, CSS, and Javascript-based projects and evaluated sites for accessibility and overall design.

Cornell Lab of Ornithology

Ithaca, NY

Site Media Curator - Birds of the World, Project and Software Team

Spring 2021 - present

- Created and edited digital media galleries to populate educational web pages in a leading biological research database.
- Curated images, audio, and video from Macaulay Library's media catalog, referencing research-based text and maps to identify and label details; selected and wrote informative captions for supplementary graphics and media.
- Communicated with researchers and editors to revise web page drafts before publication.

Denver Museum of Nature and Science

Denver, CO

Paid Intern - Avenir Collections Center

May 2018 - August 2018

- Learned software such as Raven Pro, collected measurements in both field and lab settings, and conducted data analysis with Excel. Presented findings to the general public.

VOLUNTEER EXPERIENCE

Girls Who Code with Women in Computing at Cornell

Ithaca, NY

Volunteer Instructor

September 2022 - Present

- Worked one-on-one and in groups with middle school students in the local community to teach beginning Python coding concepts, walking students through programming exercises and class activities.
- Participated in outreach to encourage and inspire young students to pursue computer science in the future.

Denver Museum of Nature and Science

Denver, CO

Children's Summer Camps Volunteer - School Programs

Summer 2017 and Summer 2019

- Volunteered for 40 hours per week for three weeks each summer, working directly with teachers to manage and interact with large classes of children aged kindergarten to fifth grade. Set up activities to teach scientific concepts in an entertaining way.

SKILLS & INTERESTS

Skills: Development of interactive and accessible web applications using HTML, CSS, JavaScript (jQuery and D3); designing user interfaces and data visualizations; data cleaning and statistical analysis with Python, SQL, R; working with large atmospheric science datasets; teaching programming; object-oriented programming; written and verbal communication

Interests: Data Analytics/Visualization, Meteorology, Scientific Communication, Digital Art, Addressing Climate Change

Relevant Courses:

- Data Driven Web Applications: generating interactive D3.js data visualizations for the web
- Beginning and Intermediate Web Design and Programming: planning and coding websites that conform to WCAG with HTML, CSS, and JavaScript, with server-side rendering supported by PHP and DB Browser for SQLite
- Data Analysis: Using pandas, NumPy, Jupyter Notebooks, and Scikit-learn to read, process, clean, and analyze data
- Programming for Meteorology and Climate Science: Python programming and analysis applied to concepts in atmospheric science, using libraries including xarray, cartopy, and metpy

OTHER AWARDS & LEADERSHIP

- Graduated summa cum laude from Fairview High School in Boulder, CO with the International Baccalaureate Diploma Programme completed in Spring 2020
- 2nd Place Senior Paper at 2018 National History Day Finals in Washington D.C. and published in National History in Colorado Paper Journal by University of Colorado in Denver
- Wrote poetry published by International Bow Seat Ocean Awareness Contest in 2017 and 2018
- Vice President of Fairview Red Cross Club and Flute Section Leader in the Fairview Marching Knights in 2020