

# Emily Zhang

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## EDUCATION

### University of Washington

Bachelor of Science in Environmental Science

Seattle, WA

Aug 2023 – May 2027

**Relevant Coursework:** Climate Change, Ecology, Environmental Policy, Data Analysis, GIS, Sustainability

**GPA:** 3.76/4.0

## TECHNICAL SKILLS

**Languages and Technologies:** Python, R, SQL, MATLAB, ArcGIS, Tableau, Excel

**Tools and Frameworks:** Git, Docker, AWS, QGIS, SPSS, Google Earth Engine

## PROJECTS

### Climate Change Impact Analysis | Python, R, ArcGIS

- Analyzed climate change impacts on coastal regions using satellite data
- Developed predictive models for sea-level rise and flooding risks
- Created interactive maps and visualizations for policymakers

### Urban Sustainability Dashboard | R, Shiny, Tableau

- Built a dashboard to track urban sustainability metrics for Seattle
- Integrated data from public APIs for real-time updates
- Presented findings to city planners for policy recommendations

### Carbon Footprint Calculator | Python, Flask, SQL

- Developed a web-based tool for calculating individual carbon footprints
- Integrated data from energy, transportation, and waste sources
- Provided personalized recommendations for reducing emissions

## RESEARCH EXPERIENCE

### Research Assistant - Climate Lab

University of Washington

Jan 2022 – May 2023

Seattle, WA

- Conducted research on the effects of deforestation on local ecosystems
- Developed models to predict biodiversity loss using machine learning
- Published findings in a peer-reviewed environmental science journal

## WORK EXPERIENCE

### Environmental Intern

National Park Service

Jun 2022 – Aug 2022

Seattle, WA

- Conducted field research on wildlife populations and habitat health
- Assisted in the development of conservation plans for endangered species
- Collaborated with park rangers to implement sustainability initiatives

### Data Analyst Intern

Environmental Protection Agency

May 2021 – Aug 2021

Seattle, WA

- Analyzed air and water quality data to identify trends and anomalies
- Built interactive dashboards in Tableau for environmental monitoring
- Presented findings to senior staff for regulatory decision-making