

OLIVIA ZHANG

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EDUCATION

Bachelor of Science in Geography and Data Science

May 2027 (Expected)

University of Florida – Gainesville, Florida

GPA: 3.98 / 4.0

- Minor in *GeoAI and Geographic Analysis*
- Involvement: Data Science for Sustainable Development – Gainesville (Co-founder), Geography Department Ambassador, Geography Club (Vice President), GeoScholar Journal (Managing Editor)

SKILLS

- **Geographic Information Systems (GIS):** ArcGIS Pro, ArcPy, ArcGIS Online, QGIS, JavaScript Leaflet
- **Programming:** Python, R, Google Earth Engine (Python & JavaScript APIs), JavaScript React
- **Other:** Git/GitHub, Canva, Microsoft Office, Google Suite, LaTeX/Overleaf, High-Performance Computing

WORK EXPERIENCE

SkyTruth | *Conservation technology nonprofit applying AI and remote sensing for environmental monitoring.* Remote
Geospatial Intern September 2025–Present

- Analyzed the impacts of mountaintop mining on topography in Central Appalachia using Google Earth Engine.
- Created workflows to update data using Python, Google Cloud, GitHub for display in Conservation Builder, an interactive map for evaluating potential protected areas.
- Verified 300+ sources of marine oil pollution to be displayed in Cerulean, an open-source platform that uses machine learning and satellite imagery to reveal oil pollution.

Geospatial Digital Informatics Lab | *Lab studying human-environment interactions with GeoAI.* University of Florida
Undergraduate Research Assistant October 2024–Present

- Created [coding tutorials](#) explaining how to analyze citizen science data with Python and Google Earth Engine, designed to raise awareness and encourage more participation in open-source data collection for NASA GLOBE.
- Wrote successful grant application totalling \$20k to support open-source geospatial AI curriculum.
- Hosted in-person hackathon with Broward County Library and virtual webinars to share the coding tutorials and community science projects.

trubel&co | *Nonprofit hosting educational programs teaching data analysis & GIS for climate action.* Remote
Geospatial Data Intern (Present), Volunteer (December 2023 – December 2024) December 2023–Present

- Planned curriculum and coordinated *Data Storytelling for Environmental Action*, teaching 50+ young professionals teaching GIS and data analysis.
- Helped manage *Mapping Justice*, a summer program teaching 20+ high school students GIS.
- Wrote successful grant applications totalling \$10k to support programs.
- Curated open-source geospatial data with ArcGIS, making data more accessible for education: data.trubel.co

Fire Neural Network | *Startup applying AI & GIS mapping to support wildfire response.* Gainesville, Florida
GIS Analyst (Present), Intern (May 2022 - March 2023) May 2022–Present

- Created interactive ArcGIS dashboards displaying real-time lightning and wildfire data used by firefighters, along with instructional videos and user guides explaining how to use the dashboards.
- Created template dashboards and documents to streamline workflows.
- Mapped temperature, soil moisture, and vegetation to analyze fire risk; used Python to automate mapmaking.

Research Experience for Undergraduates | *NSF-funded research program.* University of Maryland, Baltimore County
Undergraduate Researcher June 2024 – August 2024

- Developed workflow incorporating regression and clustering in Python to improve estimates of rainfall rate from weather radar data while generating interpretable equations.
- Organized code in UMBC's high-performance computing cluster.

AWARDS

Early-Career Fellow, UCLA's Center for Developing Leadership in Science 2024–Present

Student Climate Fellow, Florida Climate Institute 2025

John R. and Fawn T. Dunkle Award | *Awarded to one geography student at the University of Florida annually.* 2025