

# OLIVIA ZHANG

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## EDUCATION

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### Bachelor of Science in Geography and Data Science

May 2027 (Expected)

University of Florida

Gainesville, Florida

- Pursuing certificates in *Geographic Artificial Intelligence and Big Data* and *Geospatial Information Analysis*
- Involvement: Data Science for Sustainable Development – Gainesville (Co-Founder & President), Geography Department (Ambassador), Women in Computer Science and Engineering (Member)

## SKILLS

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- **Geographic Information Systems (GIS):** QGIS, ArcGIS Pro, ArcGIS Online (Dashboards, Experience Builder)
- **Programming:** Python (scikit-learn, ArcPy, GeoPandas), R, Google Earth Engine, JavaScript (React, Leaflet)
- **Design / Communication:** Git/GitHub, Canva, LaTeX, Microsoft Office, Google Suite, WordPress

## WORK EXPERIENCE

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### FIRE NEURAL NETWORK

Gainesville, Florida

Intern (May 2022 - March 2023), GIS Analyst (March 2023 - Present)

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.
- Mapped temperature, soil moisture, and vegetation to analyze fire risk; used Python to automate mapmaking.
- Labeled burned land from wildfires in 300+ satellite images, creating accurate shapefiles for research and analysis.

### AI FOR BIO/CULTURAL DIVERSITY LAB

Florida Museum of Natural History

Undergraduate Research Assistant

January 2024–Present

- Prepared training images for machine learning from remote sensing data with ArcGIS Pro, Python, and Roboflow.
- Applied random forest classification in R to classify land cover on islands in Sentinel-2 images with 90% accuracy.
- Fine-tuned object detection models in Python to identify archaeological sites in aerial photographs, Sentinel-2 imagery, and LiDAR-derived digital elevation models.

### TRUBEL&CO

Remote

Volunteer (December 2023 – December 2024), Programs & GIS Intern (Present)

December 2023–Present

- Conducting outreach with partner organizations for *Mapping Justice*, a course teaching GIS for climate justice.
- Helped host *EcoGIS*, 3 virtual workshops for young professionals about GIS for environmental justice in Florida.
- Developed a workshop to teach high school students how to analyze and map climate data with Python.

### RESEARCH EXPERIENCE FOR UNDERGRADUATES

University of Maryland, Baltimore County

Researcher

June 2024–August 2024

- Developed workflow incorporating regression and clustering in Python to improve estimates of rainfall rate from weather radar data, improving accuracy and generating interpretable equations.

## VOLUNTEER EXPERIENCE

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### TURNING GREEN

August 2023–May 2024

- Built dashboard of organic farms in California to connect schools with local farmers using ArcGIS Online, along with a story map about the importance of nutritional food for youth.

### FLORIDA COMMUNITY INNOVATION

July 2023–Present

- Researched geospatial datasets to assess and map gentrification in Gainesville, Florida.
- Created interactive story map about sea level rise in Miami for a dialogue about climate gentrification in Miami.