OLIVIA ZHANG

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EDUCATION

Bachelor of Science in Geography and Data Science   **May 2027 (Expected)**
University of Florida – Gainesville, Florida   **GPA: 4.0**
- Pursuing certificate in Geographic Artificial Intelligence and Big Data
- Involvement: Data Science for Sustainable Development – Gainesville (Co-Founder & President), Geography Department (Ambassador), Women in Computer Science and Engineering (Member)

SKILLS

- **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:** Canva, LaTeX, Microsoft Office, Google Suite, WordPress

WORK EXPERIENCE

FIRE NEURAL NETWORK   Gainesville, Florida
Intern (Summer 2022), GIS Analyst (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 using ArcGIS Pro, Python, and Roboflow.
- Tested random forest classification in R to classify land cover on islands in Sentinel-2 satellite imagery.
- 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

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.