

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

- Geography Department (Ambassador), Center for Undergraduate Research (Ambassador), Data Science for Sustainable Development – Gainesville (Co-Founder & President).

SKILLS

- **Geographic Information Systems (GIS):** ArcGIS Pro, ArcGIS Online (Dashboards, Experience Builder), QGIS
- **Data Analysis:** Python (GeoPandas, Scikit-learn, NumPy, Folium), R, Google Earth Engine
- **Design / Communication:** Canva, LaTeX, Microsoft Office, Google Suite, WordPress

GIS Training: GIS for Climate Action & Spatial Data Science: The New Frontier in Analytics (Esri Academy, 2023)

WORK EXPERIENCE

FIRE NEURAL NETWORK

Intern (Summer 2022), Geographic Information Systems (GIS) Analyst (Present)

May 2022–Present

- Created interactive dashboards displaying real-time lightning and wildfire data for use by firefighters.
- Mapped temperature, soil moisture, and vegetation using QGIS and ArcGIS Pro to analyze fire risk in Florida.
- Documented code, organized files, found publicly-available datasets, and created maps for presentations.
- 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

Research Assistant

January 2024–Present

- Updated boundary shapefiles of archaeological sites to improve accuracy based on satellite and elevation data.
- Georeferenced aerial photographs and prepared data using ArcGIS Pro to analyze Florida's landscape.
- Applied random forests in R to classify land type in Sentinel-2 satellite imagery and fine-tuned object detection models in Python to identify archaeological sites in digital elevation models and aerial photographs.

ELECTION LAB

University of Florida

Research Assistant

February 2024–May 2024

- Cleaned and analyzed 15+ million rows of data in R to understand voter turnout across Florida.
- Presented research poster and interactive maps at 2024 Election Science, Reform, and Administration Conference.

INSTITUTE OF FOOD & AGRICULTURAL SCIENCES EXTENSION

University of Florida

Intern

January 2024–May 2024

- Cleaned survey data about well history in Excel and built ArcGIS Dashboard of well water quality.
- Wrote collaborative literature review about climate-smart agriculture to inform educational programs.

VOLUNTEER EXPERIENCE

TRUBEL&CO

December 2023–Present

- Developing workshops to teach high school students how to leverage ArcGIS for environmental justice.
- Researched datasets and created activities using ArcGIS and Python to visualize socioeconomic and climate data.

FLORIDA COMMUNITY INNOVATION

July 2023–Present

- Researched geospatial datasets to assess and map gentrification in Gainesville, Florida.
- Created ArcGIS story map about sea level rise in Miami; helped host community event to discuss data.