Noah Weidig

GIS Analyst & Data Scientist

noah@noahweidig.com · Orlando, FL · noahweidig.com

GIS & Remote Sensing Research Associate using remote sensing, GIS, and data science to turn complex geospatial data into clear insight about how our world changes. Focused on wildland-urban interface wildfire risk, land-use change, and spatial decision-making.

EDUCATION

Master of Science, Forest Resources & Conservation — Aug 2023 – Aug 2025
University of Florida · Gainesville, FL
Thesis: Large Wildfire Patterns in the WUI · 4.0 GPA

Bachelor of Science, Biological Sciences — Aug 2018 – May 2022
Northern Kentucky University · Highland Heights, KY
Ecology, Evolution, & Organismal Track · 4.0 GPA

EXPERIENCE

GIS & Remote Sensing Research Associate — Aug 2025 – Present
University of Florida · Milton, FL

- Built reproducible spatial workflows for landscape-scale analysis of land-use and risk.
- Integrated remote sensing and vector data to characterize the wildland-urban interface.

Graduate Research Assistant — Aug 2023 – Aug 2025
University of Florida · Milton, FL

- Built a spatial database of large wildfires (>200 ha) across the eastern U.S. from 1986–2021, joined to the USFS WUI layer, as a reproducible R pipeline.
- Modeled wildfire WUI status, distance to the WUI, and proportion of WUI area burned against weather, fuel, ignition, and suppression variables at national and ecoregion scales.

Research Assistant Intern — May 2023 – Aug 2023
USDA Agricultural Research Service · Miles City, MT

- Collected, cleaned, and validated spatial datasets for downstream analysis.
- Supported GIS-based risk assessment and land-use planning workflows.

Fire & Recreation Intern — Jan 2023 – May 2023
Student Conservation Association / US Forest Service · Wise, VA

- Applied GIS to spatial planning and risk assessment for land management projects.

Research Assistant — May 2022 – Jan 2023
University of Cincinnati · Cincinnati, OH

- Conducted quantitative data analysis using advanced statistical modeling.

CAD Design Specialist — Sep 2021 – Jun 2022
Garage Living · Cincinnati, OH

- Developed detailed CAD drawings for client projects.

Research Assistant — Feb 2020 – May 2022
Northern Kentucky University · Highland Heights, KY

- Collected, organized, and analyzed ecological datasets.

Elections Data Specialist — Aug 2017 – Feb 2020
Boone County Clerk's Office · Burlington, KY

- Managed precinct-level GIS data for voter registration.

SKILLS

LANGUAGES	R, Python, JavaScript, SQL
MARKUP	Markdown, LaTeX, HTML, CSS
LIBRARIES	tidyverse, pandas, NumPy, Plotly
GIS & REMOTE SENSING	ArcGIS Pro, Google Earth Engine, QGIS, GDAL, sf, terra, GeoPandas, OpenStreetMap
WORKFLOWS	Git, GitHub, GitHub Actions, Conda, renv