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