

Zachary Winigrad

Burlington, Vermont • (908)-217-4710

Zachary.Winigrad@gmail.com

[LinkedIn](#)

Skills

- ArcGIS Pro & Online (AGOL)
 - Proficient with arcpy
- Data entry and organization
 - Acquiring, cleaning and modifying data
- Spatial statistics and analysis
- Database management
- Georeferencing and Geoprocessing
- Google Earth Engine - Basic Java Script Coding & imagery collection
- Microsoft Suite
- Data visualization and cartography

Summary

A highly motivated, and detail oriented student with several classes and jobs of GIS experience, as well as experience working with and managing colleagues. Strong background in establishing new/refining old systems to streamline processes. Emphasis on geospatial analyses and data visualization.

Portfolio

Professional History

UVM Spatial Analysis Lab - GIS Technician I

August 2024 - Present

- Quality control on various imagery based projects
- Edited polygon geometry to match deliverable requirements
- Edited feature extracted datasets with LiDAR reference

Smokey House Center - Climate Adaptive Maple Research Intern

July 2024 - August 2024

- Ground truthed forest stand boundaries, and collected systematic point data
- Used geostatistical tools to convert point data into heat maps
- Altered experimental design to align with stand limitations
- Incorporated agricultural land use and trail networks into visitor center maps
- Created assorted raster and vector maps for future research projects
- Assisted in the securing of USDA Acer grant
- Established file system for future projects to easily access data

Vermont Geological Survey - Surficial Geologic Mapping Intern

June 2024 - December 2024

- Utilized GPS software to track surficial geologic landforms
- Created maps of surficial material, and composed a scholarly paper
- Utilized well data from community members to create cross sections
- Presented the results to several geologic conferences
- Published finalized maps to Vermont Geological Survey website for public access

National Zoning Atlas - Vermont Zoning Atlas GIS Analyst and Team Lead

January 2024 - Present

- Created arcpy scripts for automation processes
- Lead a small team in an Agile project management framework
- Visualized data into easily digestible maps, and assisted in the creation of an open source data entry portal
- Reformatted data to suite needs of national and state teams
- Performed overlay analyses to show disparities in developed vs developable parcels

Educational History

University of Vermont - Environmental Science (B.S.) and Sustainability, Ecology, and Policy (B.S.) Double Major

August 2022 - May 2026, 3.76 GPA

- Geospatial Technologies Minor, Environmental Assessment and Analysis Concentration, & Applied Ecology Concentration
- Relevant coursework: GIS Practicum, Remote Sensing, Intro to GIS Teaching Assistant, Intro to GIS