

Zach Levitt

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Portfolio: <http://go.middlebury.edu/zachlevitt/>

EDUCATION

Middlebury College, Middlebury, VT

Sep 2016 – May 2021

B.A. Candidate, Geography and Computer Science

- GPA: 3.9/4.0, College Scholar (highest academic honor) every semester
- Courses: Cartographic Design, Software Development, GIS Applications in Environmental Science, Spatial Thinking with GIS, Data Science, Algorithms, Data Structures, Computer Architecture
- Activities: First-Year Orientation Wilderness Trip Leader, Speakers Committee, Ultimate Frisbee Team Captain

EXPERIENCE

Los Angeles Times, Los Angeles, CA

Graphics and Data Visualization Intern

Jun 2019 – Aug 2019

- Design and produce interactive and static graphics for web and print publication.

Massachusetts Institute of Technology (MIT), Cambridge, MA

Summer Fellow, Voting Rights Data Institute

Jun 2018 – Jul 2018

- Researched political gerrymandering through software development and spatial analysis.
- Designed and built an interactive map of congressional redistricting rules in R Shiny and Leaflet.
- Analyzed incarceration rates and vote inflation in North Carolina using QGIS.

Middlebury College Department of Computer Science, Middlebury, VT

Teaching Assistant, CS101: Introduction to Computing and CS150: Computing for the Sciences

Feb 2019 – Present

- Assist in teaching programming concepts and introductory Python to computer science students.

Middlebury College Department of Geography, Middlebury, VT

Research Assistant, Jeff Howarth, Associate Professor of Geography

Feb 2018 – Present

- Perform spatial analysis of remotely-sensed imagery using JavaScript and Google Earth Engine (GEE) to analyze environmental phenomena including wildfires, climate change, and hurricanes.

GIS Teaching Assistant, GEOG120: Spatial Thinking w/ GIS and GEOG150: Env. Geog. w/ GIS

Feb 2017 - Present

- Provide technical assistance with ArcGIS and GEE and assist in teaching spatial concepts and workflows to geography students.

Research Assistant, Guntram Herb, Professor of Geography

Sep 2017 – May 2018

- Design and produce interactive and static maps related to indigenous experiences with the USA-Canada border using Adobe Illustrator and ArcGIS Online.

Pioneer Valley Planning Commission, Springfield, MA

GIS Intern

Jun 2017 – Aug 2017

- Produced land-use and community impact maps for the Westover Air Reserve Base Joint Land Use Study.
- Created a GIS database of bicycle infrastructure in Massachusetts for the Department of Transportation.

SKILLS

Spatial analysis: ArcGIS Desktop 10.x (Spatial Analyst, Image Analyst, Spatial Statistics), ArcGIS Online, QGIS 3.x, GEE

Graphic design and visualization: Adobe Creative Suite (Illustrator, Photoshop, InDesign), Leaflet

Programming languages: Python (GeoPandas, NumPy, Matplotlib), R, JavaScript (React, Node), HTML, CSS, Java