

PROFILE

Middlebury College student seeking opportunities starting Spring 2021. Passionate about designing user-friendly tools and visualizing information to help people understand the world.

EDUCATION

Middlebury College, Middlebury, VT

Expected Feb 2021

Candidate for B.A in Computer Science and Geography

GPA: 3.91/4.0

EXPERIENCE

Research Assistant, Middlebury College Geography

Sep 2017 – Present

Developing Google Earth Engine (GEE) applications and learning modules for environmental GIS courses. Past projects include utilizing image processing and machine learning approaches in GEE to track land cover change on the Channel Islands in California and researching the relationship between the science of learning and cartographic education.

Research Assistant, Middlebury College Gender, Sexuality, and Feminist Studies

Sep 2019 – Present

Analyzing, visualizing, and writing about the geography of crisis pregnancy centers and abortion facilities in the United States.

Graphics and Data Visualization Intern, Los Angeles Times

Summer 2019

Produced interactive and static maps, charts and graphics for web and print publication. Pitched, designed and developed interactive earthquake map showing hypothetical worst-case shaking scenarios for every location in California. Developed searchable database and visualizations of top 100 polluting power companies.

Teaching Assistant and Tutor, Middlebury College Computer Science

Feb 2019 – Dec 2019

Assisted in teaching programming concepts and Python/R to students in introductory computer science courses. Led weekly evening tutoring sessions for up to 30 students.

Summer Research Fellow, Voting Rights Data Institute (MIT/Tufts)

Summer 2018

Designed and built an interactive map of congressional redistricting rules. Analyzed incarceration rates and vote inflation in North Carolina. Collaborated on large-scale Monte-Carlo Markov Chain analysis for redistricting.

Research Assistant, Middlebury College Geography

Sep 2017 – May 2018

Researched issues related to indigenous experiences with the U.S.-Canada border and produced interactive and static maps for research website.

GIS Teaching Assistant, Middlebury College Geography

Feb 2017 – May 2019

Provided technical assistance with ArcGIS, QGIS, JavaScript and GEE to students in introductory GIS courses.

SKILLS

Code: Python, R, Java, Ruby

Cartography/GIS: Mapbox GL JS, QGIS, GEE, ArcGIS (Desktop and Online)

Web: JavaScript, Node.js, HTML/CSS, GitHub

Design and digital art: Illustrator, Photoshop, InDesign, p5.js, scikit-image, Pillow