

EDUCATION

M.S. GIS and Web Map Programming, University of Wisconsin-Madison
GPA 4.0

Expected December 2019

B.A. Geology, Oberlin College and Conservatory
GPA 4.0, Phi Beta Kappa, Sigma Xi

May 2018

PUBLICATIONS

- “Extreme oxygen isotope zoning in garnet and zircon from a metachert block in mélangé reveals metasomatism at the peak of subduction metamorphism,” *Geology*, May 2019
- “Spatial analysis of unconventional gas infrastructure location and emissions in relation to public schools in Washington County, PA,” *Geological Society of America*, March 2019
- “Metasomatism at the peak of metamorphism: using computational thermodynamic modeling to understand dramatic oxygen isotope zoning in Catalina garnet quartzites,” *Geological Society of America*, October 2019

RELEVANT SKILLS

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|---------------|--------------|--------------------------|
| • ArcGIS 10.6 | • PostgreSQL | • JQuery |
| • Python | • PostGIS | • Adobe Suite |
| • Java | • JavaScript | • Microsoft Office Suite |

RELEVANT EXPERIENCE

GIS Research Assistant, Oberlin College, Oberlin, Ohio

August 2018 – Present

- Instruct month-long introductory GIS intensive course yearly. Assist in teaching full semester upper level course on Applied GIS. Help students troubleshoot in class and in individual meetings. Discuss important fundamental GIS topics individually with students to ensure comprehension. Engage with students in ways that foster positive learning environments. Mentor students and support faculty across campus in pursuing GIS projects.
 - Developed new exercises and modified existing exercises on geoprocessing in Python for semester-long course exercises to enhance student learning and comprehension. Newly implemented exercises significantly increased students’ abilities to incorporate Python into their GIS analyses and work independently.
 - Designed and created new introductory GIS class and associated materials.
 - Wrote lectures

GIS Project, Oberlin College, Oberlin, Ohio

September 2017 – December 2017

- Conducted spatial analysis on the 2010 eruption of Eyjafjallajökull and its effect on phytoplankton bloom.
- Analyzed the potential for large woody debris in Plum Creek, Oberlin, Ohio.

Writing Associate, Oberlin College, Oberlin, Ohio

September 2017 – May 2018

- Advised students on academic discourse and writing.
- Designed and lead workshops instructing students on scientific writing.
- Focused on motivating and fostering student learning and enabled them to critically assess their own work.