Clara Margaret Flood

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WORK EXPERIENCE

GIS Research Assistant · Oberlin College, Oberlin, Ohio   August 2018 – Present

- Assisted with instruction of GIS course.
- Developed new Python scripts to streamline learning and map creation.
- Designed new GIS coursework for month-long Applied GIS class intensive.
- Re-designed course on data visualization and design.

Department of Geology Research Assistant · Oberlin College, Oberlin, Ohio   May 2016 – May 2018

- Conducted research on garnet-quartzites from Catalina Island to investigate metasomatic fluid flow.
- Analyzed garnet-quartzites using Tescan Vega3 Scanning Electron Microscope.
- Generated P-T models using Perple_X.
- Created and presented poster displaying research at The Geological Society of America Conference, 2017.

GIS Project · Oberlin College, Oberlin, Ohio   September 2017 – December 2017

- Conducted spatial analysis on the eruption of Eyjafjallajökull and its effect on phytoplankton bloom, using ArcGIS, Python and RStudio.
- Analyzed the potential for large woody debris in Plum Creek, Oberlin, Ohio, using remote spatial analysis of LiDAR in ArcGIS.

RELEVANT SKILLS

- ESRI ArcGIS
- Adobe Illustrator, Photoshop and Acrobat

- Python 3
- HTML and CSS

- RStudio
- Microsoft Office Suite

HONORS AND PUBLICATIONS

Phi Beta Kappa   2018
Sigma Xi Associate Member   2018
George B. Wharton Prize in Geology   2018
GSA Abstract   2017
   "Metasomatism at the peak of metamorphism: using computational thermodynamic modeling to understand dramatic oxygen isotope zoning in Catalina garnet quartzites."

EDUCATION

Masters of Science – GIS & Web Map Programming, University of Wisconsin-Madison Online   Expected: 2019
Bachelor of Arts – Geology, Oberlin College, GPA 4.01   2018