# Devin Simmons

Devinsimmons71@gmail.com • College Park, Maryland• (410) 802-4676

## EDUCATION

**University of Maryland, College Park** **Expected Graduation: July 2019**

Bachelor of Science in Geology

Bachelor of Science in Geographical Sciences: GIS and Computer Cartography

- Awarded Green Scholarship in Environmental Science and Restoration
- Cumulative GPA: 3.92

## EXPERIENCE

**Transportation Engineering Technician Intern** May 2018 – Present

Maryland State Highway Administration, Office of Environmental Design Baltimore, MD

- Create a webmap of 8-digit watersheds in Maryland that have established phosphorus and sediment TMDLs using the Leaflet Javascript library.
- Prepare ArcGIS Online map using Arcade expressions to configure popups and symbology.
- Assist in note-taking and photography during stream restoration check-up inspections.

**Undergraduate Research Assistant** Jan. 2017 – May 2018

University of Maryland Department of Geology College Park, MD

- Catalogue collected rock samples into a metamorphic petrology database.
- Crush mineral samples and perform chemical digestion to prepare for further analysis.
- Run digested rock samples through chemical columns to detect Li isotope concentration.
- Use petrographic microscope to identify grains suitable for laser ablation analysis.

**REU Summer Research Assistant** May 2017 – Aug. 2017

American Museum of Natural History New York, NY

- Characterized mineral assemblages from 160 NYC samples in the museum's collections through X-Ray diffraction and hand sample analysis.
- Prepared mineral grain mounts needed to perform chemical analysis.
- Determined chemical composition of minerals such as garnet and tourmaline using the electron probe microanalyzer and the scanning electron microscope to make inferences about their formation.

**Research Assistant** Jun. 2016 – Aug. 2016

National Center for Smart Growth Research and Education College Park, MD

- Visualized SILO (land-used model) results and census demographic data in ArcGIS and Excel to detect areas where SILO succeeded or fell short.
- Performed literature review to determine alternate methods of allocating employment using land-use models.
- Gathered census/ACS demographic data to calibrate the SILO land-use model and confirm or refute its results on the county-level in the suburbs of Baltimore and Washington D.C.

## SKILLS

*Software/Programming*: ArcGIS 10.5, ArcGIS Online, QGIS, Python 2.7, ArcPy, Javascript, Leaflet, HTML, CSS, Microsoft Excel, PCI Geomatica, MATLAB

*Instrumentation*: X-Ray Diffractometer, Electron Probe Microanalyzer, Scanning Electron Microscope