Devin Simmons

Portfolio at https://devinsimmons.github.io

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EDUCATION

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

Bachelor of Science in Geographical Sciences: GIS

Bachelor of Science in Geology

- Awarded Green Scholarship in Environmental Science and Restoration
- Cumulative GPA: 3.9

EXPERIENCE

GIS Intern Jan. 2019 - Present

Stantec Inc. Laurel, MD

- Developed custom Python tool in ArcMap to populate spreadsheet with geoprocessed data describing jurisdictions covered by FEMA flood map panels.
- Digitize streamlines to match a LiDAR digital elevation model using ArcGIS tools.

Transportation Engineering Technician Intern May 2018 – Aug. 2018

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

- Created a webmap using the Leaflet Javascript library to display watersheds in Maryland that had established phosphorus and sediment pollution limits.
- Wrote Python scripts to automate production of spreadsheets and figures displaying data that was geoprocessed using ESRI's ArcPy module.
- Prepared ArcGIS Online map using Arcade expressions to configure popups and symbology.
- Automated editing process for attribute values in an ESRI geodatabase.

Undergraduate Research Assistant Jan. 2017 – May 2018

University of Maryland Department of Geology College Park, MD

- Catalogued collected rock samples into a metamorphic petrology database.
- Ran digested rock samples through chemical columns to detect Li isotope concentration.

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.
- Determined chemical composition of minerals using the electron probe microanalyzer.

Research Assistant Jun. 2016 – Aug. 2016

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

- Visualized land-use model outputs and census demographic data in ArcGIS and Excel to detect areas where the model succeeded or needed improvement.
- 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.
- Contributed to scenario planning research for the future of sustainability in the Baltimore/Washington corridor.

SKILLS

Software/Programming: ArcMap 10.X, ArcGIS Online, QGIS, Python, SQL, PostgreSQL/PostGIS, Javascript, Leaflet, HTML, CSS