

Peter Mitchell

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Experience

Utility Mapping Specialist

St. Paul, Minnesota

Conservation Corps Minnesota & Iowa, placement at Minnesota DNR

February 2025 – Present

- Communicated with MNDNR employees, utility companies, and municipalities to collect utility information, coordinate field data collection, and maintain GIS database and web applications
- Collect locations of state park utility features using Trimble DA2 receiver and ArcGIS Field Maps and sync data to MNDNR Portal site
- Develop Python scripts to facilitate QA/QC process on collected utility data
- Train park staff on field data collection using Field Maps and viewing and editing features in ArcGIS Experience Builder web applications

Freelance Data Manager

Remote

Root River Field to Stream Partnership

November 2024 – June 2025

- Organized water chemistry data and performed QA/QC checks to ensure consistency across site, monthly, and annual summary spreadsheets
- Developed Python script to geocode addresses and match water sample chemistry data to corresponding wells in the Minnesota Well Index

Clean Water Corps Member

Preston, Minnesota

Conservation Corps Minnesota & Iowa, placement at Fillmore SWCD

May 2024 - November 2024

- Collected surface- and groundwater samples for multiple watershed monitoring programs in southeastern Minnesota.
- Collected and submitted information about water samples and site conditions using Survey123
- Located and processed historic and current datasets for FLUX32 and LOADEST pollutant load modeling in the Root River watershed to assess progress toward nutrient reduction targets

Student Researcher, GIS Specialist

Minneapolis, Minnesota

University of Minnesota

June 2020 – July 2024

- Conducted fieldwork extracting sediment samples from river terraces for age dating
- Digitized river terraces using lidar-derived elevation data to extract former river long profiles
- Developed Python scripts to extract centerlines of river valleys and build geospatial representations of drainage networks from CSV point data

Education

University of Minnesota

August 2023

B.S., Environmental Geosciences, Minor in Geographic Information Sciences

- Summa Cum Laude Honors Thesis: “Determining the Postglacial Geomorphic Evolution of the Zumbro River using Terrace Mapping and Optically Stimulated Luminescence Dating”

Skills

Software: ArcGIS (Field Maps, Pro, Online, Survey123), Microsoft Excel, QGIS

Programming Languages: Python (ArcGIS API, Geopandas, Matplotlib, Shapely), SQL

Awards and Certifications

Geologist-in-Training

October 2023

Minnesota Board of AELSLAGID

Undergraduate GIS/LIS Student Scholar

May 2023

Minnesota GIS/LIS Consortium