

Maxwell A. Mickelson

Master's Student University of Kentucky

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Education

Bachelor of Arts, Hanover College, graduated May 2022

Major: Geology; Minor: History

Cumulative Grade Point Average: 3.4

Received Dean's List honors twice for greater than 3.5 GPA

Related Course work: Intro. to Geographic Info Science, Physical Hydrogeology, Structural Geology, Introduction to Oceanography, Stratigraphical Paleontology, Mineralogy and Petrology, Environmental Geology, System Fundamentals, Data Structures, Fundamentals of Computer Science, Applied Statistics, Chemistry, Sedimentary deposits, Glacial and Quaternary Geology, Groundwater Modeling, Scientific Communication.

Currently enrolled in University of Kentucky Earth Environmental Science (EES) graduate program

Expected graduation: May 2024

Laboratory and Field Skills

- Reading and interpretation of graphs including rating curves, histograms, scatter plots, probability curves, and grain size graph
- Creation of rating curves, scatter plots using Excel
- Identifying rocks and minerals
- Identifying fossils in sedimentary structures
- Creation of microscopic rockslides
- Examination of rocks, minerals, and fossils in the field
- Examination of geographic and topographic maps
- Examination of stream peak-flow data
- Identifying rock facies and structures
- Drone surveillance of rock facies and structures

Tech Skills

Microsoft Office, C++, Python, Java, Computer hardware/software, UAV Experience, ArcMap, ArcPro, UgCS for DJI

Related Work Experience

Potter Intern, Lexington KY, Kentucky Geological Survey, Summer 2023

- Analyze water well data
- Implement water well data into Microsoft Excel and display in ArcPro
- Create contour maps and cross-sections using water well data

Computer Teaching Assistant, Lexington KY, Newton's Attic Engineer Summer Camp, Summer 2019, Summer 2021, Winter 2021

Teaching Assistant

- Worked with students to develop their programming skills with Java and Python programming languages
- Mentored students in their abilities to program various games and exercises

Instructor

- Gave students instruction on how to modify and alter certain videogames