

# RILEY MOTT WILLIAMS

<https://Riley.science>

[riley.flashgames@Gmail.com](mailto:riley.flashgames@Gmail.com)

pursuing environmental science, BS

## JOB SEARCH

looking for GIS, environmental science, & lab opportunities starting in fall

## INTERESTS

My two biggest interests are **environmental science** and **computer science** with a focus on **geographic information systems** and **remote sensing**.

## CONTACT & LINKS

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🌐 [LinkedIn.com/in/RileyMottWilliams](https://www.linkedin.com/in/RileyMottWilliams)

🐙 [GitHub.com/rmw4269](https://github.com/rmw4269)

📁 [CodePen.io/247flashgames](https://codepen.io/247flashgames)

👁️ [ObservableHQ.com/@rmw4269](https://observablehq.com/@rmw4269)

## LAB SKILLS

### **Biology**

culturing bacteria, PCR, BLAST, gel electrophoresis

### **Geographic info. systems (GIS)**

land use/land cover supervised & unsupervised classification, hydrology, runoff, RUSLE (soil loss)

### **Environmental field skills**

soil evaluation, stream measurements & calculations (velocity, yield, load, oxygen, temperature, salinity), macroinvertebrate classification & evaluation, measuring N & P

### **Chemistry (organic & inorganic)**

titration, calorimetry, synthesis, dehydration, alkylation, separation

## SKILLS

### applications

- Geographic info. systems
  - ArcGIS Pro & Online
  - ENVI
- Adobe Photoshop & GIMP
- G Suite & MS Office 365

### programming & coding

- HTML/CSS/JavaScript
- Java
- C++
- Python
- Command line
- Visual Basic for Applications

## WORK & PROJECTS

🎓 **substitute teaching** [Kelly Education](#)  
📍 **Baltimore County, MD** **2024 Feb – present**  
**SKILLS:** social interactions, quick thinking, problem solving  
**EXPERIENCES:** adapting procedures, behavior management

📍 **GIS internship** [TDS Telecom](#)  
📍 **remote** **2022 Sep – 2023 Jan**  
**SKILLS:** data analysis, research, remote sensing, MS Excel, VBA  
**EXPERIENCES:** working in a team, adapting procedures

🏠 **green infrastructure capstone project** [RIT & RMSC](#)  
📍 **Rochester, NY** **2021 Aug – 2022 May**  
**SKILLS:** data analysis, measuring water infiltration, salinity, and nitrogen & phosphorous concentration measurement  
**EXPERIENCES:** working for clients, working in a team, adapting procedures [RMSC.org/science-museum/exhibits/item/298](https://www.rmssc.org/science-museum/exhibits/item/298)

🚶 **ArcGIS interactive nature trails** **RIT class IGME-382**  
📍 **Rochester, NY** **2021 Oct – 2021 Dec**  
**SKILLS:** [ArcGIS Collector](#), manual data filtering, [ArcGIS Arcade](#)  
This was a final project that I did with a partner. [ArcG.IS/00Ou9fb](https://www.arcgis.com/home/item.html?id=00Ou9fb)

🗺️ **ArcGIS MD COVID-19 vaccination map** **RIT class IGME-484**  
📍 **Rochester, NY** **2021 Apr – 2021 May**  
**SKILLS:** [ArcGIS Notebook](#), ArcGIS Pro  
This was a final project for my GeoVis class. [ArcG.IS/mGOnv](https://www.arcgis.com/home/item.html?id=mGOnv)

## EDUCATION

**Rochester Institute of Technology** **2017 – 2023**  
📍 **Rochester, NY** **college**  
**College of Science: Environmental science, BS**  
(2 classes left to finish, graduation expected in 2025 spring)

**Western School of Tech. & Environmental Science** **2013 – 2017**  
📍 **Catonsville, MD** **high school**  
**Environmental science magnet, with honors**