

Andy Atallah

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EDUCATION

University of Massachusetts Amherst – Amherst, MA

Candidate for a Master of Science in Geographic Information Science and Technology Summer 2025

- **GPA:** 4.00/4.00
- **Sample Course Work:** Python for ArcGIS, Spatial Databases and Data Interoperability, Remote Sensing and Image Interpretation, GIS and Spatial Analysis, WebGIS, Geographic Theory and Analysis

Middlebury College – Middlebury, VT

Recipient of a Bachelor of Arts in Conservation Biology May 2024

- **GPA:** 3.97/4.00
- **Honors:** Phi Beta Kappa; summa cum laude; Eagle Scout (awarded 2019)
- **Sample Course Work:** Cartography, Open GIScience, Conservation Planning, Human Geography with GIS, Mapping Global Environmental Change, Population Geography, Biostatistics, Statistical Learning

EXPERIENCE

Massachusetts Geological Survey – Amherst, MA

May 2025 – Present

Summer Intern

- Investigate methods to build an algorithm to recognize marsh degradation in historical satellite imagery using Python image processing libraries and ArcGIS Pro georeferencing
- Map environmental characteristics of state-managed forests using ArcGIS Pro to assist prioritization of field sampling locations for a multi-agency project

University of Massachusetts Amherst – Amherst, MA

January 2025 – May 2025

Graduate Research Assistant

- Determined the carbon sequestration rate in Massachusetts tax parcels containing salt marshes using data from the Sediment and Coastal Dynamics Lab in ArcGIS Pro
- Shared project to ArcGIS Online and configured a web app to be shared with state personnel

Charles River Watershed Association – Boston, MA

Summer 2024; Summer 2023

Watershed Restoration Intern – Summer 2024

- Created and edited maps for River Restoration Program using ArcGIS Pro and ArcGIS Online
- Researched sources on invasive plant species identification and management and continued to develop public-facing resources to share among partner organizations

Data Communication Intern – Summer 2023

- Created materials on invasive plant species management and identification
- Assisted staff in outreach tasks to engage with community groups and residents

Breakthrough Strategies and Solutions – Remote

March 2023 – August 2023

Ecological Restoration Intern

- Researched case studies of successful ecological restoration across a variety of ecosystem types
- Created an ArcGIS StoryMap with an embedded map to visually represent 19 case studies

SKILLS AND ACTIVITIES

- **GIS:** Experience with ArcGIS Pro, ArcGIS Online, ArcGIS Survey123, QGIS, Google Earth Engine, R (sf, terra), Python (ArcPy), and SQL (PostGIS). Experience with building ETL workflows in FME.
- **Programming Languages:** Experience with Python, R, SQL, HTML, & JavaScript.
- **Other Software:** Experience with Google Suite, Microsoft Office, & Adobe Illustrator.
- **Student Organizations:** Soil and Water Conservation Society (President; UMass Amherst Chapter); Sunday Night Environmental Group, MiddRuns (Member; Middlebury College).