GWENDOLYN ZECKOWSKI

M.S., GEOSPATIAL INFORMATION SCIENCES

CONTACT

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EDUCATION

UNIVERSITY OF MARYLAND
2023 - 2025

- Master's of Science
- Geospatial Information Sciences

UNIVERSITY OF MARYLAND
2018 - 2023

- Bachelor of Science
- Environmental Science and Policy
- Minor: Geographic Information Sciences

SKILLS

Esri Product Use
- ArcGIS Pro. ArcGIS Field Maps. ArcGIS Dashboard. ArcGIS Survey123. ArcGIS StoryMap.

Open-source GIS
- Google Maps. Leaflet. Open Street Map. QGIS.

Computer Script Languages
- Jupyter Notebook. JavaScript. HTML. Python. SQL.

Computer Applications
- ArcGIS Machine Learning Tools. Microsoft Excel, PowerPoint, and Word.

Environmental
- Identification of Eastern U.S. Birds. GPS and Garmin Equipment. Triangulation.

CERTIFICATIONS

- MBSS Benthic Macroinvertebrate Field Sampling Certification.
- MBSS Physical Habitat Assessment Certification.
- Adult First Aid/CPR/AED.

WORK EXPERIENCE

Clean Streams LLC - Prince Georges County, MD and Maryland

Environmental Scientist — AUGUST 2024 - PRESENT
- Participated in the Maryland Biological Stream Study and Geomorphology.
- Collected field work conducted in streams of Prince George's County.
- Processed Geomorphic Bulk Density soil samples at TetraTech.

GIS Analyst — AUGUST 2024 - MAY 2025
- Supported the Maryland Department of Natural Resources (MDDNR) through work on the Maryland Biological Stream Survey (MBSS).
- Conducted GIS-based analysis to identify and map landownership across the state of Maryland for stream sampling access.
- Utilized various GIS tools to collect and organize data on initial landowners and property boundaries.
- Carried out community outreach to landowners to obtain sampling permissions, with outreach activities documented and tracked within the GIS system.

Architect of the Capital - Washington, D.C.

GIS Analyst Internship — JUNE 2024 - SEPTEMBER 2024
- Utilized Esri ArcGIS through Davey's TreeKeeper System to accurately track and manage the locations of shrubs across project areas.
- Mapped and plotted shrub polygons within approximately 500 acres of the Architect of the Capitol (AOC) grounds to support vegetation inventory and land management efforts.

Capital Power Plant Internship — JUNE 2023 - AUGUST 2023
- Presented and led a tour of the AOC Capital Power Plant; covered various history, environmental, safety, and eGrid information.
- Assisted with chemical deliveries, ensuring proper handling and adherence to safety procedures during unloading and storage.

U.S. Fish and Wildlife Services - Petit Manan and Ship Island, Maine

National Wildlife Refuge Waterbird Intern — MAY 2021 - AUGUST 2021
- Created and checked productivity plots were for Common and Arctic terns. Handled and banded Arctic and Common tern, Atlantic Puffin, Common Eider, and Black Guillemot.
- Conducted a census of the island to track nesting habitats.
- Performed 4-hour behavioral observations of terns to monitor chick provisioning rates and parental feeding patterns
- Collected blood samples from shorebirds and processed them using centrifuge equipment for plasma separation and analysis.

USGS Patuxent Research Refuge - Laurel, MD

Waterbird Research Intern — MAY 2019 - AUGUST 2019
- Conducted census counts of colonial breeding waterbirds, contributing to long-term population monitoring efforts.
- Performed nest searches and monitoring for Common and Least Terns, Egrets, and Ibis. Handled and banded Common and Least Terns (USGS BBL band and plastic field readable).
- Re-sighted Common and Least Terns. Data collection and management theories were carried out. Created nest location maps (use of GPS units and ArcGIS).