

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

- Maryland Biological Stream Survey Benthic Macroinvertebrate Field Sampling Certification
- Adult First Aid/CPR/AED

GWENDOLYN ZECKOWSKI

M.S., GEOSPATIAL INFORMATION SCIENCES

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).