Mitch Torkelson

Wilmington, NC

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SKILLS

GIS Software: ESRI ArcGIS (Desktop, Pro, Online, Enterprise, Portal), ENVI, Google Earth Engine, QGIS.
Programming: Python, R, ArcGIS Model Builder, MATLAB
Data Management: NetCDF, SQL, Version control systems (Git)

EDUCATION

University of North Carolina-Wilmington **Wilmington, NC**
M.S. in Marine Science - concentration in Remote Sensing & Environmental Monitoring **July 2024**

Creighton University **Omaha, NE**
B.S. in Biology, Minor in Environmental Science **May 2019**

Universidad San Francisco de Quito-Galápagos **San Cristóbal Island, Ecuador**
Study Abroad – concentration in Marine Biology **Aug. 2018 – Dec. 2018**

EXPERIENCE

University of North Carolina-Wilmington ⧉ **Aug. 2022 – July 2024**
Graduate Research Assistant *Wilmington, NC*

- Conducted a comparative study on the accuracy of HawkEye ocean color imagery against in-situ measurements.
- Developed and maintained analytical models for environmental data analysis, significantly improving the efficiency and accuracy of data interpretation. ⧉
- Worked extensively with SQL and Python to manage and analyze large datasets, ensuring the reliability and quality of research outputs.

Geo Owl ⧉ **Mar. 2023 – Mar. 2024**
Geospatial Analyst *Part time – Remote*

- Utilized ESRI ArcGIS Pro for digitization of land features, spatial analysis, and map generation essential for coastal and terrestrial monitoring.
- Managed central GIS data repositories, ensuring organization, maintenance, and quality control; proficient in ArcGIS Pro, ArcGIS Online, and other ESRI applications.

Coral Restoration Foundation ⧉ **Jan. 2021 – Aug. 2021**
Conservation Intern *Key Largo, FL*

- Led GIS mapping projects to monitor coral habitats, applying GIS for effective conservation management and stakeholder engagement.
- Outplanted corals and maintained underwater nurseries, ensuring optimal conditions for coral growth and resilience.

University of Georgia-Marine Institute ⧉ **May 2019 – Aug. 2019**
Research Assistant *Sapelo Island, GA*

- Utilized drone and remote sensing technology to map and analyze coastal ecosystems, informing regional conservation strategies.
- Conducted fieldwork to collect salt marsh data, contributing to the understanding of coastal processes and habitats.

CERTIFICATIONS

GEOINT, *US Geospatial Intelligence Foundation (USGIF)* ⧉ **July 2024**

Cornell Satellite Remote Sensing Training Program, *Cornell University* ⧉ **June 2023**

SCUBA Divemaster, *Professional Association of Diving Instructors (PADI)* ⧉ **Dec. 2021**