

NICHOLAS G. TAIT

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PROFILE

Geographer and writer with over 5 years of experience combining technical skills in geospatial analysis, science communication, and biological monitoring. Creates compelling stories and engaging data visualizations that impact natural resource management decisions and educate a wide audience on important environmental topics. Highly motivated team player currently serving as a project lead for the National Park Service, collaborating with 10+ parks to design management plans that will identify priority areas for invasive plant control. Recently graduated from Penn State University with a master's degree in GIS.

PROFESSIONAL EXPERIENCE

Ecology Assistant (GIS Project Lead) | National Park Service | November 2023 – Present

- Lead the development of invasive plant management plans for NCR parks
- Use ArcGIS and Adobe products to compile data and create maps for internal process evaluations
- Coordinate with park staff across multiple regions to gather data and identify priority areas
- Assists colleagues in using apps within NPS's ArcGIS Enterprise
- Attended 2024 ESRI Federal GIS Conference to increase my knowledge of emerging technologies

Science Communicator | National Park Service | November 2022 – November 2023

- Communicated natural resource projects through articles for a technical and nontechnical audience
- Created promotional conservation pages on the NPS website using a Content Management System
- Created data visualizations including maps and graphs using ArcGIS Pro to accompany written work

Forestry and GIS Research Assistant | Yale School of the Environment | October 2021 – July 2022

- Researched information on US forest carbon from divergent sources and compiled it into reports
- Collected leaf litter and soil samples in the field to assess carbon cycling in temperate US forests
- Compared five forest carbon datasets from varying studies to gain an overall picture of US forest carbon stocks
- Summarized statistical data of carbon cycling to be included in future reports
- Created 20 custom map layouts on forest carbon stocks and landscape attributes

Seasonal Forestry Assistant | Connecticut Agricultural Experiment Station | May 2021 – September 2021

- Collected multivariate forestry data to provide a baseline for future change detection analysis
- Created map and a brochure on native shrub garden to inform and guide farm visitors

Biological Science Technician | National Park Service | April 2019 – August 2020

- Created informational presentations to train new employees and volunteers
- Collected field data on forest vegetation health to provide key information to park leadership
- Reviewed and edited scientific reports to prepare for publication
- Managed the Federal Forest Veg database in Microsoft Access and field data in Excel

EDUCATION

Pennsylvania State University | Master of Geographic Information Systems (GIS) | 2024

Pennsylvania State University | Postbaccalaureate Certificate in GIS | 2021

St. Mary's College of Maryland | Bachelor of Arts in Environmental Studies | 2017