NATHAN ZIEMECKI

nziemecki.github.io | natziemecki@gmail.com | Cell: 302-605-2398 | 1147 S. 10th Street, Philadelphia, PA, 19147

Skills

- Proficient in R, Python, and SQL for data management and analysis
- Skilled in building applications using ShinyApp and Flask.
- Accomplished in web development utilizing JavaScript, CSS, and HTML, and Bootstrap.
- Expert in spatial data analysis using ArcGIS Pro, ArcMap, and QGIS
- Cartography and impactful data visualization

- Skilled in ETL processes, spatial database management, and database design
- Well-versed in research methodologies, scientific record searching, and interpretation
- Expertise in data collection planning
- Familiar with the NEPA environmental review process
- Proficient in Excel, Word, PowerPoint, and Access for data entry and analysis

Projects

Philadelphia Resource Network for Trans Liberation
Creator and Developer
12/2023-Present

- This project employs the Shiny app development framework and leverages the Google Cloud Platform to extract data from a collaborative Google Sheet. Users can explore this data through a categorized searchable interface and an intuitive search bar. Additionally, user input is facilitated through Google Forms. The primary objective of this platform is to empower all users to seek helpful resources and add to a dynamic community resource network.

Experience

Philadelphia Water Department | Philadelphia, PA
Graduate Data Analyst Intern
10/2023-Present

- Supported more efficient and effective infrastructure decision making by spearheading a spatial data creation, transformation and analysis project.
- Initiating investigative data analyses using knowledge of R and Python, seeking meaningful patterns in data discrepancies.
- Utilizing advanced data skills to summarize sampling results, highlighting key trends for daily state reporting compliance.
- Facilitating the smooth conversion and upload of field instrument data into the Laboratory Information Management System (LIMS) database, ensuring adherence with the specified format standards.

U.S. Forest Service | Prairie City, Oregon
Biological Science Technician- Wildlife (GS-05)
04/2019-11/2019
- Analyzed spatial data in the formulation of potential project proposals.
- Applied mapping skills to designate forest roads based on usage and condition specifications.
- Developed and executed surveys to evaluate designated old growth stands, assessing habitat characteristics for targeted outcomes.
- Orchestrated and actively engaged in initiatives to survey project areas, specifically focusing on sensitive wildlife species.

U.S. Forest Service | Island Park, Idaho
Science Technician -Wildlife/Fuels/Silviculture (GS-04)
05/2018 - 09/2018
- Utilized advanced organizational skills to categorize and structure collected data, ensuring its seamless entry into databases for further analysis.
- Conducted standardized sylviculture and fuels exams across the project area to gather detailed data for future management planning
- Implemented comprehensive data collection methodologies during habitat surveys, employing meticulous attention to detail in the systematic organization of gathered information.
- Monitored and tracked progress on all surveys and data collection, optimizing routes for efficient project completion.
- Planned and executed surveys for northern goshawk nests using call-broadcast methods, ensuring compliance with NEPA standards to clear project areas for work.

Department of Entomology and Wildlife Ecology | Newark, DE
Undergraduate Researcher
04/2017 - 05/2018
- Conducted independent research, demonstrating proficiency in interpreting databases and synthesizing existing data records and summaries.
- Spearheaded and managed a comprehensive study focusing on wood duck nesting habits, showcasing leadership and organizational skills.
- Executed parameter and vegetation surveys in an estuarine marsh on the ground, showcasing hands-on experience and field expertise.
- Applied meticulous data gathering, entry, and analysis techniques to produce a comprehensive final thesis.
- Authored, presented, and successfully defended the results of the study, highlighting effective communication skills and the ability to articulate complex findings.

Education and Training

Temple University | Philadelphia, PA
Master's in Spatial Data Science
Ongoing

Temple University | Philadelphia, PA
Graduate Certificate in Geographic Information Systems
2023

University of Delaware | Newark, Delaware
Bachelor of Science in Pre-Vet Biosciences, Agriculture and Natural Resources
2018
- Minor in Wildlife Conservation
- Cum laude graduate
- Thesis: The Influence of Nest Box and Habitat Characteristics on Wood Duck Nest Box Use and Success in Delaware