

Alexander Fielder

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PROFESSIONAL EXPERIENCE

[LINKEDIN](#) • [PORTFOLIO](#)

USU RIVERSCAPE ASSESSMENT AND MONITORING LAB

LOGAN, UT

GIS Technician

January 2025 - Present

- Leveraging remote sensing principles in QGIS to census beaver dams in New Mexico.
- Working closely with a small team where communication and efficiency is crucial.
- Cleaning up and ensuring quality of collected data.
- Assisting in the coding of ArcPy and PyQGIS tools.

UTAH DEPARTMENT OF NATURAL RESOURCES

Logan, UT

AIS Wildlife Technician I

May 2024 - August 2024

- Acted as a primary point of contact for the public, effectively communicating watercraft inspection and decontamination procedures, the importance of the work, and state and federal regulations.
- Worked with a diverse crew of inspectors, maintaining a friendly and professional working environment.
- Answered the public's questions in a professional manner in a high pressure environment.
- Accurately documented inspections, decontaminations, and seal removals ensuring proper records were kept.

EDUCATION

UTAH STATE UNIVERSITY

Logan, UT

B.S. in Environmental Studies; Certificates in GIS & Social Dimensions of Climate Change

2021 - Present

- Completed coursework in Land Use and Transportation Planning, Advanced GIS, Python Coding for GIS, Data Visualization, Environmental Policy, Drone Data, and Remote Sensing.
- Worked with several professors on GIS intensive projects.
 - Calculated and represented travel distances for farmers markets participating in the double up food bucks program across the state. The result of this project was distributed to farmers markets to better serve and understand the residents using the program.
 - Currently working on a project estimating the range and population dynamics of a threatened species of orchid at the Mendon Meadow Preserve. This research should help with understanding the species and protect them where they are, along with aiding in the delisting of the species.
- Created a Python script that automates the generation of "bike comfort score" maps using UDOT road data. With further development this tool could be leveraged by planners and cyclists to determine route planning, especially outside of large metro areas where bike lanes and public trails are less common. Myself and another student are currently working on furthering this project and will present it to the UGIC in May 2025.

ADDITIONAL INFORMATION

- Graphic Design and Video Editing - Proficient in Premiere Pro, Photoshop, and Illustrator
- Coding - Python for Arcpy, QGIS, and Java for Google Earth Engine
- Passion - Running a podcast about Public Transportation, Urbanization, and History for the past 3 years
- Data Design and Representation - Worked extensively with ArcGIS story maps and Tableau to ensure data transparency, legibility, and accuracy