Alexander Fielder

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PROFESSIONAL EXPERIENCE [LinkedIn](#) • [Portfolio](#)

USU RIVERSCAPE ASSESSMENT AND MONITORING LOGAN UT

Jr 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 was crucial

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 and demeanor in a high pressure environment.
- Accurately documented inspections, decontaminations, and seal removals ensuring proper records were kept for the accountability of the state and public.

EDUCATION

UTAH STATE UNIVERSITY **Logan, UT**

B.S. in Environmental Studies; Minor in Climate Change & Environmental Justice; Certificate in GIS **2021 - Present**

- Completed coursework in Land Use and Transportation Planning, ArcGIS Pro, Python Coding for GIS, Data Visualization, Environmental Policy and Remote Sensing. With one more semester left I plan on strengthening my skills in GIS and work more with transportation data.
- Worked with a couple of 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 across the state to better serve their 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.
- Currently working on a Python script that automates the generation of "bike comfort score" maps using UDOT road data. This will produce high quality maps to help guide cyclists to safer routes, especially outside of large metro areas where bike lanes and public trails are less frequent.

ADDITIONAL INFORMATION

- Graphic Design and Video Editing - Proficient in Premiere Pro, Photoshop, and Illustrator
- Coding - Python for Arcpy 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 truth.