

# Alexander Fielder

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U.S. Citizen • Registered for Selective Service

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## TECHNICAL SKILLS

[LINKEDIN](#) • [PORTFOLIO](#)

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- ArcGIS Pro, QGIS and GEE
  - Data visualization in Tableau
  - Grant and Academic writing
  - Data management
  - Cartographic design
  - Coding in Python and JavaScript
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## WORK EXPERIENCE

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### 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.
- Worked 25-30 hour weeks in full time school with outside projects.

### 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.
- Worked Full Time between Spring and Fall semesters.

### UTAH STATE UNIVERSITY FACILITIES

LOGAN, UT

#### Landscaping Crew Member

AUGUST 2023 - May 2024

- Worked with a large team and communicated effectively with everyone to complete the work efficiently.
- Worked 20+ hours a week while in full time school.
- Demonstrated proper use of string trimmers, blowers, and a variety of mowers.
- Recognized as responsible enough to operate the mowers and lead the team.
- Worked early morning shifts during cold and inclement weather.

### MARRIOTT LIBRARY

SALT LAKE CITY, UT

#### Facilities Assistant

AUGUST 2022- July 2023

- Implemented systems for proper battery sorting, handling, and recycling.
- Used common power tools to upkeep and maintain the building.
- Trusted with access to secure areas of the building.
- Worked with contractors to complete work safely and in a timely manner.
- Worked 15+ hours a week while in full time school.

- Was trusted to complete tasks unsupervised.

## **SALT LAKE CITY SHERATON**

**SALT LAKE CITY, UT**

### ***Banquet Assistant***

**SEPTEMBER 2021 - January 2023**

- Worked a varied schedule based on event availability and hours.
- Lifted and moved multiple tables that weighed up to 50lbs and moved hundreds of chairs a night.
- Worked with a team to serve food safely and quickly to numerous guests.

## **CACTUS AND TROPICALS**

**SALT LAKE CITY, UT**

### ***Planting Crew / Delivery Crew***

**APRIL 2021 - August 2021**

- Planted a vast array of plants at multi million dollar houses.
- Selected the plants to plant for the day based on elevation, shade condition, budget and availability.
- Drove work trucks around the Wasatch Front and Back with trailers.
- Safely lifted heavy plants and containers.

## **CACTUS AND TROPICALS**

**SALT LAKE CITY, UT**

### ***Christmas Tree Lot Attendant***

**NOVEMBER 2020 - December 2020**

- Safely operated an electric chainsaw to put a fresh cut on christmas trees.
- Securely attached Christmas trees to the top of cars and in truck beds for safe transport.
- Worked outside in freezing temperatures and snow.
- Identified different tree species and their benefits for the customers' wants.

## **TRACY AVIARY**

**SALT LAKE CITY, UT**

### ***Bird Feeder Attendant***

**JUNE 2018 - August 2019**

- Securely handled cash and card payments.
- Communicated effectively among staff and guests in a high stress and claustrophobic environment.
- Worked though constant management overturn and kept customers happy and quality consistent.
- Kept an organized and clean kitchen workspace and maintained food safety standards.

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## **EDUCATION**

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## **UTAH STATE UNIVERSITY**

**LOGAN, UT**

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

**August 2023 - May 2025**

- Completed coursework in Advanced GIS, Python Coding for GIS, Data Visualization, Drone Data Processing, Remote Sensing, and Communicating Sustainability.
- 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.

## **UNIVERSITY OF UTAH**

**SALT LAKE CITY, UT**

### ***B.S. in Environmental Studies***

**August 2021 - May 2023**

- Completed coursework in Land Use and Transportation Planning, Intro to GIS, Environmental Policy, Conservation Biology, and Global Climate Change.
- On the Dean's List
- GPA of 3.569

## **HIGHLAND HIGH SCHOOL**

**SALT LAKE CITY, UT**

### ***High School Diploma***

**August 2017 - June 2021**

- Completed several AP classes for college credit and took countless honors classes.
- Graduated top 15% of my class with a Cumulative 3.9 GPA.
- Obtained the Seal of Biliteracy for French.
- Awarded the CTE Certificate for TV and Radio Production.

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## **AWARDS AND ACHIEVEMENTS**

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| • Outstanding Senior of the Year - Department of Environment and Society | • Presenting research work at the Utah Geographic Information Council |
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## **PERSONAL INTERESTS**

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|---------------------------|-------------------------|
| • Hiking                  | • Backpacking           |
| • Fly fishing / Fly tying | • Public transportation |
| • Film photography        | • Access to recreation  |
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