

# Jack Hesse-Withbroe

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## Education

**University of Wisconsin-Eau Claire**

Expected Graduation: May 2026

Degree: Bachelor of Science

Eau Claire, WI Major: Geospatial Analysis and Technology

- Certificate: Information Systems – Certificate: Earth Resources

## Technical Skills

### Software Programs

- **ArcGIS Pro:** Geoprocessing Operations, Cartography, Layout Design, Spatial Analyst, Interpolation, Site Suitability Analysis, Shapefile Creation, Raster Creation, Geodatabase Production, ModelBuilder, Spatial, Non-Spatial Joins, Lidar data, Ariel Imagery, Weighted Sum Analysis
- **ArcGIS Online:** Feature Layer Creation, Webmapping, StoryMaps, Dashboards
- **ESRI FieldMaps, QGIS, ArcMap, ArcScene, Erdas Imagine**
- **Adobe Illustrator:** Cartographic Design
- **Microsoft Word, PowerPoint, Teams, Excel:** Dataset Creation, Dataset Manipulation

### Languages

- **Python:** Geopandas, Pandas, Numpy, Matplotlib, Folium, Rasterio, GDAL
- **R:** Leaflet, DPLYR
- **HTML, Java, SQL**

## Relevant Coursework

### Geospatial

- G.I.S I, G.I.S II, G.I.S III, Quantitative Methods in Geography, Applied Cartography and Geovisualization, Cartography, Remote Sensing of the Environment, Introduction to Geospatial Analysis

### Scripting/Programming

- Computing with Python, Data Analysis with R, Computing with Java, Webpage Design with HTML

### Environmental

- Biogeography, Climatology, Conservation of the Environment, Physical Geography

## Leadership Experience

**University of Wisconsin-Eau Claire Cross Country, Track & Field**

Fall 2021 - Present

Captain

- Committed approximately 40 hours per week to training, traveling across country to meets, managing team administration, and leading team meetings all while maintaining full course load and working

## Work Experience

**Advanced Private Investigations, Inc**

June 2023 - Present

Security Guard

Eau Claire, WI

- Maintain positive customer relations
- Verify quantities item types and SKU numbers
- Maintain consistent radio communication with other guards
- Train new employees in security and employee practices

