

# JEREMY POWELL

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Website/Portfolio: <https://jmpowell-osu.github.io/portfolio/>

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Graduating from Oregon State University in June 2026 with a BS in Environmental Sciences and a GIS Certificate. In pursuing the GIS Certificate, I've specialized in processing raster datasets, including: multibeam sonar elevation data, satellite images, and grid-interpolated climate data. I'm seeking a role where I can leverage my GIS expertise and expand on my passion for automating tedious workflows.

## EDUCATION

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### B.S. Environmental Sciences (current)

Oregon State University

Graduating June 2026

Cumulative GPA: 3.71/4.0

Relevant Coursework: Quantitative Geospatial Analysis (R), Satellite Image Analysis (Google Earth Engine), Programming for Geospatial Analysis, Remote Sensing, Cartography, Forest Surveying, Statistics with R, Calculus (through differential equations), Physics I and II, General Chemistry and General Biology Series, Field Methods in The Environmental Sciences, Botany.

## EXPERIENCE

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### GIS Technician, Oceanography Research (Current)

Dr. Jeff Beeson, Oregon State University

June 2025 - Present

- Processed, visualized and generated bathymetry grids from point cloud data using Qimera and MB-System.
  - Will be applying these skills in the field during an R/V David Packard mapping cruise in April*
- Generated difference grids of volcanically active seamounts using ArcGIS Pro
- Created script tools and used ArcGIS Model Builder to automate these GIS processes

### Intern, Landcover Monitoring

June 2024 - September 2024

Bureau of Land Management (Burns District, OR) / Northwest Youth Corps

- Conducted Field Monitoring: Pace180, ORMP (plant species cover), pasture utilization, stream temperature probes, and streamline shade monitoring.
- Navigated to field sites and collected data using Avenza Maps and ArcGIS Field Maps
- Certified in 4x4 driving with trailer and offroad vehicle operation (ROHVA).
- Full Time Internship – credited 520 hours through Americorps.

## SKILLS & ABILITIES

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### GIS and Remote Sensing:

- Develop automated geoprocessing workflows using ArcGIS Pro and Arcpy, and communicate results through ArcGIS Storymaps or static maps of high cartographic quality
- Leverage Google Earth Engine (JavaScript API) for algorithm-driven processing, classification and transformation
- Process, visualize and generate bathymetry grids from multibeam sonar point cloud data using MBARI's MB-System and Qimera

- Compute statistical and spatial analysis in R Studio (sp library)
- Data querying and analysis in Microsoft Excel (both VBA tools and nested cell formulas),
- Data exploration with Envi 6.0 Classic

**Field Mapping skills:**

- Utilizing Survey123, Field Maps, Avenza Maps to collect field data: Pace180, ORMP, pasture utilization, photo point collection, water temperature probe deployment/recovery, streamline shade assessment (All through BLM).
- Plant identification using dichotomous keys (especially Hitchcock & Cronquist)

**Certifications:**

- Aware Driver 2.0™ GSA Fleet Course (Completed 07/2024)
- Utility trailer Towing & UTV Loading Training (BLM) (Valid through 07/2027)
- Recreational Off-Highway Vehicle Association Basic *DriverCourse*™ (Completed 07/2024)

## GIS PROJECTS AND TINKERING

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To see how I've applied GIS for school projects and personal passion projects, check out my website/portfolio at  
<https://jmpowell-osu.github.io/portfolio/>

## VOLUNTEERING

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*McKenzie River Trust (Eugene, OR)*

Contributed ~30 hours to blackberry removal, native species planting, and willow harvesting for habitat restoration.

*Organic Growers Club, Oregon State University*

Contributed ~50 hours to planting, weeding, and harvesting operations. Still participate weekly.

*Chess Club, Oregon State University*

Contributed to the egos of any player ranked 1200+ by losing to them. Still participate weekly.