

James Clunes

(541) 609-8948 ❖ jamesclunes27@gmail.com

Education & Certifications

EXPECTED GRADUATION FALL 2026

M.S. Cartography and GIS, *University of Wisconsin, Madison, WI*

GRADUATED SPRING 2023

B.S. Geography and Geospatial Science, *Oregon State University, Corvallis, OR*

- OSU Geographic Information Science Certificate

Work Experience

APRIL 2024 - OCTOBER 2025

Cartographer and GIS Analyst - XyloPlan

- Created maps in QGIS for high-level presentations and webpages, helping guide wildfire resilience decisionmaking in vulnerable communities across the western US.
- Conceptualized, scripted, and implemented fire modeling algorithms in Python for high-resolution simulations, creating metric-based outputs for decision-makers.
- Rewrote website payload .json files using PostMan to incorporate spatial data and work around software limitations.
- Envisioned and implemented map design standards for Felt, Mapbox, and QGIS, creating cohesive company style through all deliverables.
- Integrated company SQL servers into cartography software and documented workflows to ensure scalability.
- Pioneered client-side open source dataset styling, authoring .json scripts and QGIS .qml files for congruency between cartographers.

APRIL 2022 - APRIL 2024

Cartographer and Information Technician - Pyrezo

- Bridged diverse development teams from Sweden, India, and across the United States.
- Translated verbal directions from chief executives into achievable action items.
- Initiated, designed and disseminated workflows for teams to improve deliverables.
- Explored and documented methodologies for backend data management and frontend app UX.
- Combined federal and commercial wildfire models to optimize dataset accuracy.

APRIL 2019 - SEPTEMBER 2021

Image Processing Technician - Eagle Digital Imaging

- Rapidly completed training on complex computer systems to meet delivery goals.
- Authored several multi-step procedures for a variety of spatial programs including ArcGIS, QGIS, and Photoshop.
- Developed an outside-the-box approach to image processing, saving the company roughly two minutes for every ten images mosaicked in 100 to 2,000-image projects.
- Solved difficult problems requiring deep understanding of software such as ArcGIS, Photoshop, and proprietary programs.

AUGUST 2017 - APRIL 2019

Aircraft Ground Crew - Corvallis Aero Service

- Ensured outstanding first impressions of Corvallis with cheery attitude in all conditions and a strict adherence to safety protocols around aviation assets.
- Managed six tanks containing forty four thousand gallons of high-octane aviation fuel.
- Facilitated the training of new employees through bespoke workflows and leading by example.
- Undertook additional tasks such as emergency aircraft maintenance and customer service.
- Commended by Chesley "Sully" Sullenberger for attention to detail and professionalism.

JUNE 2016 - JULY 2016

Deck Hand - Fishing Vessel *Prospector*

- Persevered through extreme conditions to complete difficult tasks.
- Communicated effectively in a high-stress, fast-paced environment.
- Translated complex directions into precise action.

GIS & Geography Projects

VOLUNTEERING

- Consulted with the Greenbelt Land Trust to design and publish trail map flyers for Bald Hill Farm, their most visited park.

XYLOPLAN

- Devised a spatially-based wildfire heuristic in Python for classifying risk in the built environment.
- Designed a scalar vector tileset style system for QGIS using OpenStreetMap cloud-hosted data, based on user feedback and accessible data visualization principles.
- Published 200+ maps guiding wildfire mitigation efforts in over 50 vulnerable communities in California, Washington, Arizona, and Colorado.
- Crafted compelling data visualizations validating proprietary simulation methods against real-world wildfires.

PYREZO

- Developed novel wildfire information displays alongside fire professionals to combine topography, fuels, and vegetation management visualization to promote community wildfire protection.

OREGON STATE UNIVERSITY

- Created and repaired spatial data for a database of the sidewalks, crosswalks, and bus stops of Corvallis in order to run network analysis on the city's accessibility in a 120-hour internship.
- Coded in ArcGIS using Python, scripting the automated creation of randomized raster datasets to use as a control for statistical geospatial analysis.
- Conducted multi-band and hyperspectral analysis of near infrared, color, and thermal imagery.
- Analyzed food accessibility and quality for community food desert assessment.

Relevant Coursework

- Master's-level Graphic Design in Cartography, honed the art of effective visual communication, implementing tools including HTML, JavaScript, and ArcGIS Story Maps and ArcGIS Pro.
- Undergraduate Forest Surveying, received advanced training on multiple methods of landscape measurement from chains to lasers.
- Master-level GIS III: Geospatial Analysis, worked through varied geospatial problems in order to better understand the advantages and limitations of GIS using Google Earth Engine.
- Undergraduate Environmental Assessment, created a 26-page sustainability report based on field assessments on a local site undergoing rewilding restoration efforts using ArcGIS Pro.

Achievements & Certifications

- "Best in Class" award at Benton County Fair for Mt. Saint Helens eruption map, 2025.
- Search and Rescue Certificate for the State of Oregon, 2022-2024.
- Climbing Wall Instructor Certification, 2021.
- CPR & AED Certification, 2021-2024.
- Wilderness First Responder, 2020-2024.
- Private Pilot License, 2019.
- PADI Advanced SCUBA Open Water Certification, 2017.
- PADI SCUBA Open Water Certification, 2017.
- Eagle Scout Rank, 2016.

Leadership & Involvement

- Volunteer worker and cartographer with Greenbelt Land Trust, 2024-2025.
- President of Oregon State University Geography Club, 2021 - 2023.
- Volunteer for Corvallis Mountain Rescue Unit, 2021 - 2025.

References List

Scott Cheeseman, Xyloplan, CEO and Co-Founder: (415) 997 8376, scott@xyloplan.com

JP Werlin, Pyrezo, CEO : (206) 651 1444,

David Shear, Eagle Digital Imaging, President and EO : (541) 602 4488, info@eagleimaging.net

Leanne Miller, Corvallis Aero Service, General Manager : (541) 990 9004