

Westin Guthrie

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Albuquerque, New Mexico

Education

University of New Mexico

PhD student in Geography - present

Master of Science in Geography - July 2023

Bachelor of Science in Geography - December 2019

Minor in English

Skills

- ArcGIS
 - Microsoft Office Suite programs
 - Adobe Illustrator
 - Python (primary libraries: pandas, numpy, seaborn, matplotlib)
 - R (statistical analysis, used to understand predictors to fire and parameterize a forest landscape model)
 - QGIS
 - Explaining technical concepts to others when unfamiliarity is present
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Master's Thesis (Awarded Thesis Distinction)

My thesis sought to answer:

How will contemporary and future climate scenarios impact the frequency and severity of fire intersecting with an expanding wildland-urban interface (WUI) in southern California?

- Using LANDIS-II to model forest succession and project wildfires to the year 2100
 - Using R and Python for data visualization, landscape attributes, initial forest communities, and statistical regressions to parameterize models
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Work Experience

University of New Mexico - Lab Manager (20 hours per week)

Albuquerque

August 2023 - present

- Manage the ASPIRE lab website by adding content and organization
- Point of contact for parties interested in checking out field equipment
- Order supplies for the lab
- Put in tickets for cleanings or IT fix-its

University of New Mexico - Research/Teaching Assistant (20 hours per week, May-August 40 hours)

Albuquerque

August 2022 - May 2023 - Teaching Assistant (20 hours per week)

- Sole instructor for 5 lab sections for an undergraduate course
- Helped facilitate knowledge and thought about physical geography research
- Utilized Canvas to provide feedback, grade, and set up coursework

July 2021 - July 2022 - Research Assistant (20 hours per week)

- Used Python to produce maps and plots of various forest succession information
- Worked with Forest Inventory Analysis data to create age equations for tree species

- Worked with LANDIS-II, a forest landscape succession model, to parameterize and model forest succession in southern California

September 2022 - December 2022- Research Assistant (10 hours per week)

- Editing papers for a research project using daily Planet imagery for object-based image analysis in the Seville National Wildlife Refuge

Maxar - GIS Analyst (40 hours per week)

March 2021 - July 2021

- Quality control for 3d maps using in-house software
- Cloud masking for 3d maps using in-house software

Earth Data Analysis Center (EDAC) - Data Services Assistant (12 hours per week)

Albuquerque, New Mexico

May 2019 - December 2019

- Analyzed aerial photography and Google Earth
- Talked to clients about services and took aerial photo orders
- Georeferenced aerial images using ArcMap and ERDAS Imagine
- Filed photos and maps within the library

Volunteering

St. John Vianney Catholic Church

Rio Rancho, New Mexico

August 2017 - 2021

- Leading small groups prompting discussion and thought about Catholic theology
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