

## **Westin Guthrie**

(505)985-0002

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Albuquerque, New Mexico

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### **Education**

#### **University of New Mexico**

Bachelor of Science in Geography - December 2019

Minor in English

Master of Science in Geography - estimated graduation May 2023

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### **Skills**

- ArcGIS
  - Microsoft Office Suite programs
  - Adobe Illustrator
  - Python (primary libraries: pandas, numpy, seaborn, matplotlib)
  - R (used to understand predictors to fire and parameterize a LANDIS-II model)
  - QGIS
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### **Master's Thesis**

My thesis seeks to answer:

*How will contemporary and future climate scenarios impact the frequency and severity of fire intersecting with an expanding wildland-urban interface 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 - Research Assistant**

Albuquerque

July 2021 - July 2022

- 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

August 2022 - Current - Teaching Assistant

- Teach two lab sections for an undergraduate course
- Help facilitate knowledge and thought about physical geography research
- Utilize Canvas to provide feedback, grade, and set up coursework

September 2022 - December 2022- Research Assistant

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

**Maxar** - GIS Analyst

Remote

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

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

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### **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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