Bianca Camacho
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EDUCATION

2027 **The University of New Mexico**
M.S. Geography, Concentration in GIS

2025 **The University of New Mexico**
B.S. Geography; Concentrations in Natural Resources,
Minors in Sustainability Studies and Psychology

RESEARCH EXPERIENCE

2026 **Earth Data Analysis Center (EDAC) Research Assistant**
Contributing to a systematic literature review of bicycle and pedestrian crash mapping. Leading the domain on interactive and dynamic mapping literature; Zotero library and Covidence workflow management.

Accelerating Resilience in Drylands (ARID) Undergraduate Research Grant
Using GIS and remote sensing to monitor and identify sediment transport and deposition hotspots in Arroyo Del Toro, Rio Chama, New Mexico. This project uses a combination of historical raster imagery, change detection, and identification of vegetation and root systems in the area.

2025 **Albuquerque Bernalillo County Water Utility Authority**
Used ArcGIS, ArcPy, and ModelBuilder to conduct a financial eligibility analysis of unpermitted septic systems in the greater Albuquerque area.

Accelerating Resilience in Drylands (ARID) Undergraduate Research Grant
Educated university students on soil science and circular economies through manure composting practices. Phase I explored different styles of composting, monitoring composition and temperature over time. Phase II explored distribution and partnerships with local farms and community gardens.

Earth Data Analysis Center (EDAC) Research Assistant
Researched correlations between wildfires and cancer risk using spatial analysis Under ARID's Climate and Health Allied Network for Geospatial and Environmental Science (CHANGES) via literature analyses and use of satellite imagery, Google Earth Engine, and ArcGIS.

2024 **Earth Sciences Computing & Programming Experience Program (ESCAPE)**
Surveyed and modeled seismic data using Python, and QGIS; created visualizations for water quality data in the Jemez River.

R.H. Mallory Center for Community Geography Fellows Program
Used asset maps and other data sources to assist Bernalillo County Open Space in generating user-friendly information to the public about local food systems and urban agriculture in the International District.

Arts & Sciences Support for Undergraduate Research Experience (ASSURE)
Collected data about the populations of arthropods inhabiting the university's community garden using crowdsourced observations from iNaturalist.

2020 STE²M Research Experience Program; New Mexico Institute of Mining and Tech.
Studied river and groundwater quality and treatment for human consumption in New Mexico.

PRESENTATIONS

2026 Spatial Analysis of Unpermitted Septic Systems in Albuquerque
Poster presentation at the New Mexico Land and Water Summit.

2025 Spatial Analysis of Unpermitted Septic Systems in Albuquerque
Talk given at the New Mexico Water Data Initiative Workshop.

Urban Agriculture in the International District
Lightning talk at the UNM Community Geography Colloquium.

Ecological Stewardship in Circular Systems: A Collaborative Study in Manure Composting
Poster presented at the UNM ARID Symposium and UNM Undergraduate Research Opportunity Conference (UROC).

2024 Quantifying and Categorizing Arthropod Populations in the UNM Lobo Gardens
Poster presented at the UNM Undergraduate Research Opportunity Conference (UROC).

Sustainability: Resilience and Regeneration
Roundtable led at the New Mexico Climate Bureau Visioning Summit.

Working Against Fast Fashion through Community-Led Circularity
Demonstrated at the University of New Mexico Sustainability Expo

2023 Benefits and Detriments of Arthropods in the Garden
Guest lecture presented in the SUST 499: Lobo Gardens class.

Manure Composting: Procedures and Distribution
Guest lecture presented in the SUST 499: Lobo Gardens class.

RELEVANT COURSEWORK

GEOG 527	Intro to GIS Programming
GEOG 525	Advanced GIS Seminar
CRP 542	Indigenous Environmental Planning
CRP 532	Foundations of Natural Resources
GEOG 583L	Remote Sensing Fundamentals
GEOG 587L	Geocomputation and Spatial Modeling
CE 547	GIS for Water Resources Engineering
GEOG 457	Environmental Security: Energy
GEOG 458	Envir. Security: Food & Water
GEOG 485L	Interactive Web Mapping
GEOG 381L	Intro Geographic Info Systems
GEOG 2170	Energy Environment & Society
GEOG 1115	Maps & GIScience
GEOL 1110	Physical Geology

INTERNSHIPS AND ASSISTANTSHIPS

2026 **Earth Data Analysis Center**
Graduate Research Assistant

Albuquerque-Bernalillo Water Utility Authority
Graduate Water Resources Intern

2025 **Earth Data Analysis Center**
Undergraduate Research Assistant

Albuquerque-Bernalillo Water Utility Authority
Water Resources Intern

2024 **Albuquerque-Bernalillo Water Utility Authority**
Water Resources Intern

Bernalillo County Open Space
Urban Agriculture and GIS Intern

2023 **UNM Lobo Gardens**
Project Intern, Student Learning Facilitator

2022 **Tamaya Horse Rehabilitation Center**
Agriculture Intern

2020 **Corrales Veterinary Clinic**
Veterinary Extern

MEMBERSHIPS AND AFFILIATIONS

2026 UNM SAGES

2025 New Mexico Safety Over Profit

2024 Gamma Theta Upsilon
New Mexico Friends of Paleontology

2023 Citizen's Climate Lobby
UNM Lobo Gardens
UNM Social Dance Club