

# CAMERON BLUMHARDT

| Bandelier Hall East, Room 111A | 808.397.0305 | cblumhardt@unm.edu |

## EDUCATION

**University of New Mexico (UNM)** Anticipated 2027  
PhD, Geography  
Committee chair: Dr. Marygold Walsh-Dilley

**Washington State University (WSU)** May 2025  
M.A., Anthropology  
"Application of XBeach Modeling for Assessing Natural and Anthropogenic Influences on Sediment Deposition at Shingle Point, British Columbia"

**Appalachian State University (ASU), Cum Laude** May 2021  
B.S., Anthropology, Minor in Geology

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## CURRENT RESEARCH INTERESTS

Convergent research, remote sensing, machine learning, land use and land cover change, qualitative methods and ethnography, high mountain water and food security, Andes region and southern Ecuador, critical physical geography.

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## WORK AND TEACHING EXPERIENCE

**Research Assistant, ASPIRE Lab, UNM**  
NM Habitat Map Project RA 2024-2025

**Project Assistant, Civil and Environmental Engineering, UNM**  
NMDOT Microtransit Project PA 2024-2025

**Transportation Planning Intern, Mid-Regional Council of Governments, Albuquerque, New Mexico** 2023-2024  
Worked with teams in completing regional planning projects, including analysis and visualization of UrbanSim regional model forecast outputs using ArcGIS Pro and Python. Provided additional support through completion of projects such as file structure management across MRCOG servers over the course of a 9-month internship.

**Teaching Assistant, Geography & Environmental Studies, UNM**  
GEOG 1160L, Introduction to Physical Geography, Lab Instructor Fall 2023  
GEOG 1160L, Introduction to Physical Geography, Lab Instructor Spring 2024

**Adjunct Faculty, WSU** Summer 2022  
ANTH 399/599, Archaeological Field School, Primary Instructor

**Research Assistant, Northwest Coast Archaeology Lab** Spring 2021-Summer 2023  
Completed projects and field work using photogrammetric modeling, GIS, ground-penetrating radar (GPR), remote sensing.

**Teaching Assistant, WSU**  
ANTH 260L Introduction to Biological Anthropology (Primary Instructor) Spring 2023  
ANTH 101, Introduction to Anthropology Fall 2022  
ANTH 268, Sex, Evolution, and Human Nature Spring 2022  
ANTH 316, Gender in Cross Cultural Perspective Spring 2022  
ANTH 101, Introduction to Anthropology Fall 2021

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Lab Manager, ASU Photogrammetry Lab

2020-2021

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## HONORS, FELLOWSHIPS, AND DISTINCTIONS

**CLAG Field Study Grant Award Recipient**

2025

Awarded to support proposed dissertation field work.

**NSF IRES Pathways Fellow, (Award # 1954188)**

2023-2024

Participated in an interdisciplinary collaborative project on water security in headwaters-dominant systems in collaboration with other fellows and graduate students at Universidad de Cuenca during the 2023-2024 Pathways summer school and conducted interdisciplinary research focusing on water security and climate change adaptation in southern Ecuador for three months during summer of 2024.

**Bob Ackerman Graduate Student Fellowship Recipient, WSU**

2022

Awarded for outstanding professional promise as a graduate student focusing studies in the Northwest Coast region.

**Departmental Honors, ASU**

2021

Successful defense of undergraduate honors thesis: "Bridging the Gap Between Small-Scale Archaeological Sites and the Public: A Virtual Garden Creek Exhibit" in addition to curating Appalachian State University's first publicly available virtual exhibit in collaboration with Belk Library.

**Jill Loucks Memorial Scholarship Stipend Recipient, ASU**

2020

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## PUBLICATIONS

Sinclair, L., Sharma, P., **Blumhardt, C.**, Lippitt, C.L.

In-Prep, "Dryland Vegetation Mapping Using High Spatial-Temporal Resolution Satellite Imagery In New Mexico: A Comparison of Phenological Time-Series Transformation Methods"

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## PRESENTATIONS

Poster Presentation, Association of American Geographers (AAG) Conference

2025

"Analyzing Social-Political Factors Contributing to the Decline of an Important Alpine Ecosystem in the Tropical Andes Through Integration of a Non-Parametric Machine Learning Model: A Mixed Methods Approach"

LoboBites 3-Minute Thesis/Dissertation Competition

2024

"Assessing Processes Contributing to the Decline of an Important Alpine Ecosystem in the Tropical Andes: A Mixed Methods Approach"

Poster Presentation, Society for American Archaeology (SAA) Conference

2023

"*Clam Gardens as Coastal Landscape Agents: The Case of Shingle Point, Valdes Island, British Columbia*" Blumhardt, C., Cohn, N., & Grier, C.

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## CERTIFICATIONS AND SKILLS

**Commercial Drone Pilot**

2021-Present

FAA Section 107-certified UAS pilot

**GIS and Photogrammetry Software Proficiencies**

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Experience using and training others in GIS and photogrammetry software such as QGIS, ArcGIS/ArcGIS Pro and Agisoft Metashape through coursework, projects, and current research. Additional experience using R software environment for managing and analyzing both continuous and discrete data types.

## Field Work Experience, Vancouver, Washington

Fort Vancouver National Historic Site	2022
Fort Clatsop National Historic Park	2022
Boulder, Utah, University of Nebraska-Lincoln Archaeological Field School	2019

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## PROFESSIONAL ASSOCIATION INVOLVEMENT

Conference of Latin American Geography (CLAG)	2025-Present
American Association of Geographers (AAG)	2023-Present
American Society for Photogrammetry and Remote Sensing (ASPRS)	2023-Present
Society for American Archaeology	2022-2023

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## LEADERSHIP AND SERVICE

<b>Student Association of Geography and Environmental Studies (SAGES), UNM</b>	
President	2024-2025

<b>Graduate and Professional Student Association (GPSA), UNM</b>	
Council Representative Member	2023-2024

<b>Graduate Student Stream Department Liaison, WSU</b>	2022-2023
Responsible for attending monthly department faculty meetings and liaison meetings to represent department graduate students.	

<b>Volunteering and Community Service, Vancouver, Washington</b>	
264 hours, National Park Service	2022
50+ hours, Clark County Food Bank/Farm	2022-2023

<b>Apprenticeship, Photogrammetry Lab, ASU</b>	2019-2020
Received formal training in photogrammetric methods and structure-from-motion model creation using Agisoft Metashape software in preparation for assuming role as lab manager during the subsequent school year.	

<b>Student Member, Appalachian State University Renewable Energy Initiative (ASUREI), ASU</b>	
Vice Chair	2020
Treasurer	2020
Board Member, Secretary	2019