

# ISHMAEL MEDINA

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## EDUCATION

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2027 (expected)	<b>PhD</b> , Anthropology emphasis Archaeology, University of Utah, Salt Lake City, UT
2023	<b>MS</b> , Anthropology emphasis Archaeology, University of Utah, Salt Lake City, UT
2021	<b>BS</b> , Anthropology emphasis Archaeological Science, University of Utah, Salt Lake City, UT - Minor: Spanish - Related work: Nahuatl, Quechua

## ACADEMIC APPOINTMENTS

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2023-2028	Graduate Research Fellow, National Science Foundation
2023-present	Graduate First Year Fellow, Global Change and Sustainability Center, University of Utah, Salt Lake City, UT
2022-present	Assistant Director, Archaeological Center, University of Utah, Salt Lake City, UT
2022-present	Graduate Mentor, Archaeological Center, University of Utah, Salt Lake City, UT
2017-2021	Undergraduate Researcher Assistant, Archaeological Center, University of Utah, Salt Lake City, UT

## PUBLICATIONS

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### *In progress*

#### *In Review*

**Medina, Ishmael**, Kenneth Blake Vernon, Kate E. Magargal, Weston C. McCool, Jerry D. Spangler and Brian F. Coddling (in review) Archaeological Survey of Cottonwood Wash, San Rafael Desert, Emery County, Utah. Prepared for the Bureau of Land Management (BLM), Price Field Office, Utah, and State of Utah School and Institutional Trust Lands Administration, Salt Lake City, Utah. Prepared by the University of Utah Archaeological Center and the Colorado Plateau Archaeological Alliance. BLM Cooperative Agreement L20AC00267 United States Department of Interior Permit No. 21UT85115, State of Utah Antiquities Project No. U22UA031, University of Utah Archaeological Center Project No. UUAC22052.

#### *In-Prep*

**Medina, Ishmael D.**, Kenneth B. Vernon, Jerry S. Spangler, Brian F. Coddling. A Reconstruction of Utah's Indigenous Maize Farming Niche. Target journal: *Journal of Archaeological Science*.

#### *In-Prep*

McCool, Weston C., Kenneth B. Vernon, **Ishmael D. Medina**, Joan Brenner Coltrain, Kurt M. Wilson, Brian F. Coddling. Socio-climatological drivers of violent conflict in the pre-contact Bears Ears National Monument, Utah. Target journal: *Proceedings of the National Academy of Sciences*.

**Peer-review Journal Articles**

2023 Codding, Brian F., Heidi Roberts, William Eckerle, Simon C. Brewer, **Ishmael Medina**, Kenneth Blake Vernon, Jerry S. Spangler (2023) Can we detect adaptive responses of hunter-gatherers to past climate change? Examining the impact of Mid-Holocene drought on Archaic settlement in the Basin-Plateau Region of North America. *Quaternary International*.

**Technical Reports**

2022 Spangler, Jerry D., Matthew Zweifel, Heidi Roberts, Keith Hardin, Kenneth B. Vernon, **Ishmael Medina D.**, Valerie Russell, Michael Terlep, Brian Storm, Lisbeth Louderback, Samantha Paredes, and Brian F. Codding (2022). Over the Hills and Far Way: *The Search an Upland Basketmaker II Presence in the Johnson Canyon-Wygaret Terrace Area of Kane County, Utah*. Prepared by the Colorado Plateau Archaeological Alliance and the University of Utah Archaeological Center. BLM Assistance Agreement L20AC00132 United States Department of Interior Permit No. 19UT82469, State of Utah Antiquities Project No. U22C10102.

**Other**

2021 **Medina, Ishmael** (2021). Understanding the Distribution of Ancient Maize Agriculture in Utah’s Three Physiographic Provinces.” *University of Utah Undergraduate Research Journal*.

**GRANTS, FUNDING, AND AWARDS**

**Total = \$258,650**

2023-2028	Graduate Research Fellowship Program, National Science Foundation	\$147,000
2023-2024	Global Change and Sustainability Center Graduate First Year Fellowship Program, University of Utah	\$24,000
2023-2024	Native American Graduate Archaeology Scholarship, Society for American Archaeology	\$10,000
2023	Associated Students of the University of Utah Travel Funding Award	\$600
2023	Graduate Student Travel Assistance Award, The Graduate School, University of Utah	\$500
2023	Global Change and Sustainability Graduate & Wilkes Center for Climate Science & Policy Travel Award	\$500
2023	Graduate Travel Funding, Department of Anthropology, University of Utah	\$500
2022-2023	Funded Graduate Research Assistant, University of Utah, National Endowment for the Humanities, Grant Number: 55200035, Natural History Museum of Utah	\$25,000
2017-2023	Chickasaw Nation Higher Education Scholarship and Grant	\$23,000
2022	College of Social Behavioral Science Student Research Day award winner, University of Utah	\$150
2021-2022	Department of Anthropology, University of Utah, Chair Scholarship	\$25,000
2020-2021	Undergraduate Research Opportunities Program, University of Utah	\$2,400

## PRESENTATIONS

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- 2024 Society for American Archaeology, "Reconstruction of Utah's Indigenous Maize Farming Niche."
- 2022 College of Social Behavioral Science Student Research Day, "Identifying the Basin-Plateau Prehistoric Maize Farming Niche: Preliminary Results," award winner, University of Utah.
- 2022 Global Change and Sustainability Center Research Symposium, "Fort Douglas drastically impacted the fauna, vegetation, and landscape of the Red Butte area over its first 60 years," University of Utah.
- 2021 Undergraduate Research Symposium, "Understanding the Distribution of Ancient Maize Agriculture in Utah's Three Physiographic Provinces", University of Utah.

## INVITED LECTURES

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- 2023 Natural History Museum of Utah, "Stay Curious, Utah!", "The Importance of Corn in Utah Archaeology."
- 2023 University of Utah, World Prehistory, discussed the origins of agriculture and emphasized the importance of maize agriculture in Utah's archaeological record.
- 2022 Local outreach: Archaeology Lecture and Class Activity: Bennion Elementary School, Salt Lake City, UT. Taught elementary students about Pleistocene-Holocene transition archaeology and archaeology careers. Led archaeological activities. Organized through the Society for the Advancement of Chicanos/Hispanics and Native Americans in Science.

## RESEARCH EXPERIENCE

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- 2023 Graduate Research Assistant, Performed Ethnographies, Native American Voices Initiative, Natural History Museum of Utah. Funded by the National Endowment for the Humanities #ZPP-284087-22.
- 2023 Graduate Research Assistant, National Science Foundation grant #DEB-1714972. 2021 National Science Foundation, "CNH-L: Dynamic Impacts of Environmental Change and Biomass Harvesting on Woodland Ecosystems and Traditional Livelihoods", Dynamics of Coupled Natural and Human Systems.
- 2021-2022 GIS Lead, University of Utah Global Change and Sustainability Center, "Fort Douglas drastically impacted the fauna, vegetation, and landscape of the Red Butte area over its first 60 years," University of Utah.
- 2020-2021 Undergraduate Research Opportunities Program, University of Utah.
- 2019 Undergraduate Research Assistant, National Science Foundation grant #DEB-1714972. 2021 National Science Foundation, "CNH-L: Dynamic

Impacts of Environmental Change and Biomass Harvesting on Woodland Ecosystems and Traditional Livelihoods", Dynamics of Coupled Natural and Human Systems.

## PROFESSIONAL SERVICES

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- 2023 Abstract translator (English to Spanish), Gregory R. Burns, Jelmer W. Eerkens, Howard J. Spero & Jeffrey S. Rosenthal (2023) Isotopic Evidence of Sources for Central California *Olivella* Beads, California Archaeology, DOI: [10.1080/1947461X.2023.2173772](https://doi.org/10.1080/1947461X.2023.2173772).
- 2022 Volunteer archaeological field technician, Boa Ogoi Restoration Project, Northwest Band of the Shoshone Nation, Preston, ID. Representing the University of Utah Archaeological Center, University of Utah.
- 2019-2021 Archaeological field technician & data analyst, Logan Simpson, Cultural Resource Management Team, Salt Lake City, UT.
- 2019 Volunteer archaeological field technician, California Polytechnics State University, San Luis Obispo, Chumash Excavation.
- 2018 Volunteer archaeological field technician, Montgomery Archaeological Consultants, Bureau of Land Management, University of Utah, Nine Mile Canyon Fremont Village Excavation.

## PROFESSIONAL AFFILIATIONS

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- 2023-present Society for American Archaeology
- 2022-present AM-ARCS of Nevada
- 2017-2021 Member of the National Society of Leadership and Success (Sigma Alpha Pi), University of Utah Chapter

## SKILLS

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- Proficient with GIS/GPS ((Trimble TerraSync, Juno, and other GPS systems)
- Proficient in ArcGIS, ArcMap, and QGIS
- Proficient in Wildnote
- Proficient in Microsoft Excel, Word, and PowerPoint
- Proficient in the R Environment
- Proficient in Statistics & Data Analytics
- Proficient with Utah & Nevada site forms and project productions
- Map/sketch stratigraphy, sites, and artifacts
- Photography
- Fluent: English & Spanish