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School of Human Evolution and Social Change & Center for Digital Antiquity
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EDUCATION

2017 Ph.D., Department of Anthropology, University of Wyoming
Dissertation Title: *The Climatology of Place: The role of paleoclimates on hominin landscape-level behaviors*

2005 M.A., Department of Anthropology, Washington State University
Thesis Title: *Small-Game Utilization among the Aché of Eastern Paraguay: A Study of Taphonomy in Ethnoarchaeology*

1999 B.A., Department of Anthropology, Colorado State University
Minor Certificate, Native American Studies

PROFESSIONAL EXPERIENCE

Executive Director and Associate Research Professor, Arizona State University, Center for Digital Antiquity, School of Human Evolution and Social Change, Tempe, AZ.
10/2019 – Present

Director, University of Wyoming, Water Resources Data System & Wyoming State Climate Office, Department of Civil and Architectural Engineering, Laramie, WY.
2011 – 2019

Adjunct Assistant Professor, Department of Anthropology, University of Wyoming, Laramie, WY.
2017 – 2019

GRANTS & AWARDS

2024 Department of Defense ESTCP grant. *TDAR Military Cultural Resources Data Management Solution for the Department of Defense* (\$1,273,000).

2023 Institute for Museums and Library Services National Leadership Grant. (Co-Principal Investigator with Sarah Kansa, Neha Gupta, and Desiree Martinez). *Advancing FAIR+CARE Practices in Cultural Heritage* (\$600,000).

2023 National Endowment for the Humanities. (Co-Principal Investigator with Andrea Torvinen, Ben Nelson, and Christopher Schwartz). *Digital Reference Collection for the La Quemada-Malpaso Valley Archaeological Project* (\$350,000).

2022	Salt River Project Community Giving Grant. (Principal Investigator). <i>White Mountain Apache Digital Archive</i> (\$69,000).
2021	National Science Foundation. (Co-Principal Investigator with Charles Egeland, Rebecca Schwendler, Jing Deng, and Minjeong Kim. <i>A network approach to Magdalenian social landscapes</i> (\$248,087).
2019	Arizona State University, Institute for Social Science Research Grant (Co-Principal Investigator with Keith Kintigh). <i>Addressing the Challenges of Archiving Complex Archaeological Datasets</i> (\$7,881)
2018	National Mesonet Program (Principal Investigator). <i>2018-2019 Teaming Agreement</i> (\$58,333)
2017	United States Department of Agricultural (USDA) Research Service Grant (Co-Principal Investigator with Dr. Vivek Sharma). <i>Climate Impact Assessment on Agriculture in Wyoming and Montana: Spatial-temporal variability of Climatic Variables, Extreme Events, and Evapotranspiration</i> (\$13,039)
2016	Wyoming State Engineer's Office Grant (Principal Investigator). <i>Wyoming Agricultural Climate Network – WACnet</i> (\$75,000)
2015	Rocky Mountain URISA GIS Scholarship (\$500)
2013	Wyoming State Engineer's Office Grant (Principal Investigator). <i>Wyoming Hydrographer's Data Modernization</i> (\$45,000)
2002	Washington State University, Graduate Studies Travel Grant (\$500)
2002	Washington State University, International Research Grant (\$1,000)
2000	Universitaet Tuebingen, Institute fur Ur- und Frugeschichte, Tubingen, Germany, International Research Scholarship (4,000 DM)

CONTRACTS AWARDED

2025	United States Air Force, AFHRA to tDAR Digital Curation (\$250,001)
2024	Bureau of Indian Affairs, <i>Deer Valley Petroglyph Preserve Digital Curation Project</i> (\$278,233)
2024	United States Air Force Digital Curation Phase 4 (\$146,349)
2023	USDA Forest Service. <i>Digital Antiquity Cultural Resources Records Management Support</i> (\$3,000,000).
2022	Bureau of Indian Affairs, <i>Hopi Digital Curation Project</i> (\$101,956)
2022	United States Air Force Digital Curation Phase 4 (\$161,361)
2021	United States Air Force Digital Curation Phase 3 (\$128,356)
2021	Defense POW/MIA Accounting Agency. <i>Comparative Digital Archaeology</i> (\$159,997 and \$217,774)
2021	Wenner Gren Foundation Digital Archive (\$15,400)
2021	United States Air Force Digital Curation Phase 2 (\$15,000)
2021	Crow Canyon Archaeological Center, History Colorado Grant (\$25,000)
2021	2020 Ft. Sill Army Installation Digital Curation (\$137,680)
2020	United States Air Force Digital Curation Phase 1 (\$578,988)

PUBLICATIONS

PEER-REVIEWED

1. (In press) **Nicholson, C.**, Fernandez, R., Collazzi, C., Kintigh, K., and Masinton, A., 2025. The Digital Archive of Huhugam Archaeology and the Reuse of Archaeological Information. *Advances in Archaeological Practice*.
2. Egeland, C., Fadem, C., **Nicholson, C.**, and Byerly, R. 2025. Spatial analysis and neotaphonomy of two landscape bone assemblages in the Ngorongoro Conservation Area, Tanzania. *Journal of Archaeological Science: Reports*. 61: 104903. <https://doi.org/10.1016/j.jasrep.2024.104903>.
3. **Nicholson, C.**, S.W. Kansa, N. Gupta, and R. Fernandez, 2023. Will it Ever Be FAIR? Making Archaeological Data Findable, Accessible, Interoperable, and Reusable. *Advances in Archaeological Practices*. <https://doi.org/10.1017/aap.2022.40>.
4. Bird, D., L. Miranda, M. Vander Linden, E. Robinson, R.K. Bocinsky, **C. Nicholson**, J.M. Capriles, J.B. Finley, E.M. Gayo, A. Gil, J. d'Alpoim Guedes, J.A. Hoggarth, A. Kay, E. Loftus, U. Lombardo, M. Mackie, A. Palmisano, S. Solheim, R.L. Kelly, J. Freeman, 2022. p3k14c - A synthetic global database of archaeological radiocarbon dates. *Scientific Data*. <https://doi.org/10.1038/s41597-022-01118-7>.
5. **Nicholson, C.**, R. Fernandez, R. and J. Irwin, J. 2021. Digital Archaeological Data in the Wild West: The Challenge of Practising Responsible Digital Data Archiving and Access in the United States, *Internet Archaeology* 58. <https://doi.org/10.111141/ia.58.22>.
6. Freeman, J., Andries, J.M., Beckman, N.B., Robinson, E., Baggio, J.A., Bird, D.M., **Nicholson, C.**, Finley, J.B., Capriles, J.M., Gil, A.F., Byers, D., Gayo, E., Latorre, C., 2021. Landscape Engineering Impacts the Long-Term Stability of Agricultural Populations. *Human Ecology*. <https://doi.org/10.1007/s10745-021-00242-z>.
7. Arakawa, F. and **C. Nicholson**. 2020. Identifying New Quarries as a Method for Expanding Research: A GIS Case Study from the Mesa Verde Region in the American Southwest. *Journal of Archaeological Science: Reports*. 102470. <https://doi.org/10.1016/j.jasrep.2020.102470>.
8. Slimak, L., and **C. Nicholson**, 2020. Cannibals in the Forest: A comment on Defleur and Desclaux (2019). *Journal of Archaeological Science*. 117: 105034. <https://doi.org/10.1016/j.jas.2019.105034>.
9. Sharma, V., **C. Nicholson**, A. Bergantino, S. Irmak, and D. Peck, 2020. Temporal Trends Analysis of Meteorological Variables and Reference Evapotranspiration in the Inter-Mountain West Region of Wyoming. *Water*. 12(8):2159.
10. **Nicholson**, C., T. Minckley and J.J. Shinker, 2019. Validating CCSM3 Paleoclimate Data using Pollen-Based Reconstruction in the Intermountain West. *Quaternary Science Reviews*. 222:1-8. <https://doi.org/10.3390/w12082159>.

11. Nicholson, C. 2019. Shifts Along a Spectrum: a longitudinal study of the western Eurasian hominin fundamental climate niche. *Environmental Archaeology: Journal of Human Palaeoecology*. 1461-4103:1-16. <https://doi.org/10.1080/14614103.2019.1654651>.
12. Robinson, E., C. Nicholson, and R. Kelly, 2019. The Importance to Spatial Data to National Archaeological Databases. *Advances in Archaeological Practice*. 1-14. <https://doi.org/10.1017/aap.2019.29>.
13. Nicholson, C., J.J. Shinker, V.M. Hanway, and S. Zavala, 2018. The Influence of Atmospheric Circulation on Abnormal Snowpack Melt-Out Events and Drought in Wyoming. *Journal of American Water Resources Association*. 1-17. <https://doi.org/10.1111/1752-1688.12697>.
14. Nicholson, C. 2017. Eemian paleoclimate zones and Neanderthal landscape-use: a GIS model of settlement patterning during the last interglacial. *Quaternary International*. 438:144-157. <https://doi.org/10.1016/j.quaint.2017.04.023>.
15. Egeland, C., B. Gasparian, C. Fadem, S. Nahapetyan, D. Arakelyan, D., and C. Nicholson. 2016. Bagratashen 1, a stratified open-air Middle Paleolithic site in the Debed river valley of northeastern Armenia: a preliminary report. *Archaeological Research in Asia*. 8:1-20. <https://doi.org/10.1016/jара.2016.10.001>.
16. Egeland, C., B. Gasparian, D. Arakelyan, C. Nicholson, A. Petrosyan, R. Ghukasyan, R. and R. Byerly. 2014. Result of Reconnaissance Survey for Paleolithic Sites in the Debed River Valley (Lori Depression, Northern Armenia). *Journal of Field Archaeology*. 39:370-386. <https://doi.org/10.1179/0093469014Z.00000000096>.
17. Egeland, C., K. Welch, and C. Nicholson. 2014. Experimental Determinations of Cutmark Orientation and the Reconstruction of Prehistoric Butchery Behavior. *Journal of Archaeological Science*. 49: 126-133. <https://doi.org/10.1016/j.jas.2014.05.007>.
18. Arakawa, F., C. Nicholson, and J. Rasic. 2013. The Consequences of Social Processes: Aggregate Populations, Projectile Point Accumulations and Subsistence Patterns in the American Southwest. *American Antiquity*. 78:1. <https://doi.org/10.7183/0002-7316.78.1.147>.
19. Tercek, M., S. Gray, and C. Nicholson. 2012. Climate Zone Delineation: Evaluating Approaches for Use in Natural Resource Management. *Environmental Management*. 49(5):1076-91. <https://doi.org/10.1007/s00267-012-9827-4>.
20. Egeland, C., B. Gasparian, D. Arakelyan, R. Byerly, C. Nicholson, and D. Zardaryan. 2011. Multiperiod Archaeological Reconnaissance in the Debed River Valley, North-Eastern Armenia. *Antiquity*. 085: 329.
21. Egeland, C., C. Nicholson, and B. Gasparian. 2010. Using GIS and Ecological Variables to Identify High Potential Areas for Paleoanthropological Survey: An Example from Northern

Armenia. *Journal of Ecological Anthropology*. 14: 1. <http://dx.doi.org/10.5038/2162-4593.14.1.8>.

22. Arakawa, F. and **C. Nicholson**. 2009. Prehistoric Resource Procurement in the Central Mesa Verde Region: A Study of Human Mobility and Social Interactions Using GIS *International Journal of Humanities and Arts Computing*. 3: 85–100. <https://doi.org/10.3366/ijhac.2009.0010>.

BOOK CHAPTERS

1. **Nicholson, C.** 2022. Challenges of Archiving Complex Archaeological Datasets for Reuse: An Example from the American Southwest. In A. W. Kandel, M. N. Hidle, & C. Sommer (Eds.), *Human Origins – Digital Future: An International Conference about the Future of Archaeological and Paleoanthropological Databases* (pp. 23-24). Propylaeum, Heidelberg. DOI: <https://doi.org/10.11588/propylaeum.882.c13434>
2. Arakawa, F., **C. Nicholson**, and D. Harro. 2019. Diachronic Landscape Changes in Tool-stone Raw Material Distributions and Exchange Systems in the Northern Rio Grande. In Ortmon, S. (Ed.), *Re-Thinking the Rio Grande Pueblo Economics*. University of Arizona Press, Tucson, AZ.

PRESENTATIONS (*Invited)

1. Schwendler, R., C.P. Egeland, S. Hossan, J. Deng, M. Kim, A.Q. Vermillet, I. Wisher, K. Tylén, **C.M. Nicholson**, F. Riede. 2025. *Perforated Disks as Indicators of Magdalenian Social Networks*. Presented at the 90th Society for American Archaeology Annual Meeting, Denver, CO.
2. C. Collazzi, **Nicholson, C.**, and A. Masinton. 2025. *tDAR's Educational Materials for Pottery Research and Beyond*. Presented at the 90th Society for American Archaeology Annual Meeting, Denver, CO.
3. ***Nicholson, C.** 2024. *Creating FAIR and CAREing Zooarchaeological Data*. Discussant at the 89th Society for American Archaeology Annual Meeting, New Orleans, LA.
4. ***Nicholson, C.** 2024. *Controlled Vocabularies in Archaeology*. Discussant at the 89th Society for American Archaeology Annual Meeting, New Orleans, LA.
5. Collazzi, C., and **C. Nicholson**. 2024. *Archaeological Data Reuse in Action: Three FAIR Examples in tDAR*. Poster at the 89th Society for American Archaeology Annual Meeting, New Orleans, LA.
6. McCray, B., J. Stephens, and **C. Nicholson**. 2024. *Integrating Categorical Data in Spatial Models: A Unique Dataset from Southeast Asia*. Poster at the 89th Society for American Archaeology Annual Meeting, New Orleans, LA.

7. Torvinen, A., **C. Nicholson**, B. Nelson, and C. Schwartz. 2024. Creating a Digital Reference Collection for the La Quemada-Malpaso Valley Archaeological Project. Presentation at the 89th Society for American Archaeology Annual Meeting, New Orleans, LA.
8. ***Nicholson, C.** 2023. *Give me Metadata, or Give me Death! Advancing Cultural Heritage Using the FAIR Principles*. Keynote presentation at the 83rd Annual Archaeology Society of Virginia Meeting. South Boston, VA.
9. ***Nicholson, C.** 2023. *FAIR principles, Data Stewardship, & tDAR*. Presented at the AME60 Summer 2023 Midyear Meeting. Oklahoma City, OK.
10. Egeland, C., R. Byerly, and **C. Nicholson**. 2023 *Have You Ever Seen a Walrus in Nebraska? Reflections on the Career and Contributions of Larry Todd*. Presented at the 88th Society for American Archaeology Annual Meeting, Portland, OR.
11. **Nicholson, C.** and R. Fernandez. 2021. *The Digital Archive of Huhugam Archaeology*. Virtual presentation to the Four Southern Tribes Cultural Working Group.
12. Ashley, M., **Nicholson, C.**, Rambo, C., Fjerstad, B. 2021. *Resilient Recording: Paperless Project Management from Proposal to Preservation*. Presented at the 2021 Arizona Historic Preservation Conference, Tempe, AZ.
13. **Nicholson, C.** 2021. *Advancing our Digital Cultural Heritage using the FAIR Principle: Findable, Accessible, Interoperable, and Reusable Archaeological Data*. Presented at the 2021 Great Basin Conference, Las Vegas, NV.
14. Fernandez, R. and **C. Nicholson**. 2021. *Update: The Digital Archive of Huhugam Archaeology*. Arizona Archaeology Council Fall Conference, Phoenix, AZ.
15. Fernandez, R. and **C. Nicholson**. 2021. *Digital Data Preservation, Access, and Reuse: Using tDAR for CRM and Research*. Continuing Professional Education Course for the Register of Professional Archaeologists.
16. **Nicholson, C.** 2021. *Stop, Collaborate, and Listen: Steps toward data interoperability and reuse across archaeological disciplines and professions*. Presented at the virtual 86th Annual Society for American Archaeology Conference.
17. ***Nicholson, C.** 2021. *tDAR, Data Preservation, and what's FAIR in archaeology*. Presented at the University of Pennsylvania Department of Anthropology Colloquium Series. Philadelphia, PA.
18. ***Nicholson, C.** 2021. *tDAR: What is it and how does it relate to the work of SHPOs?* Presented at the National Conference of State Historic Preservation Officers Technology Committee Virtual Meeting.

19. Irwin, J., **C. Nicholson**, and R. Fernandez. 2021. *Digital Curation in The Age of Covid: Using the FAIR Principles to Foster Preservation, Access, and Reuse*. Presented at the Society of Historical Archaeology Virtual Conference.
20. **Nicholson, C.** 2020. *Archiving Complex Archaeological Datasets and the FAIR Principle: An example from the Mimbres Pottery Images Databases and tDAR*. Presented at the virtual 2020 Arizona Archaeological Council Meeting.
21. ***Nicholson, C.** 2020. *Challenges of Archiving Complex Archaeological Datasets for Reuse*. Presented at the Human Origins – Digital Future, ROCEEH Workshop, Frankfurt am Main, Senckenberg Research Institute.
22. ***Nicholson, C.** 2020. *FAIR Practices, Synthetic Research, and Archaeology in the “Big Data” Era*. Presented at the University of Wyoming Department of Anthropology Spring Seminar Series. Laramie, WY.
23. Fernandez, R. and **Nicholson, C.** 2020. *Digital data preservation, access, and reuse: Using tDAR for CRM and Research*. Online workshop to be presented for the American Cultural Resources Association (<https://www.acra-crm.org/webinarondemand>)
24. **Nicholson, C.** 2020. *Advancing our Digital Cultural Heritage using the FAIR Principle: Findable, Accessible, Interoperable, and Reusable Archaeological Data*. Presented at the 2020 Colorado Council of Professional Archaeologists. Pueblo, CO.
25. **Nicholson, C.** and R. Fernandez. 2019. *The Digital Archive of Huhugam Archaeology (DAHA): An Update from The Center for Digital Antiquity*. Presented at the 2019 Arizona Archaeology Council Meeting, Tempe, AZ.
26. **Nicholson, C.** 2019. *Are Data Disappearing? A Perspective on our Collective Commitment to Preserve and Make Accessible the Digital Archaeological Record*. Presented at the 2019 American Cultural Resources Association Conference, Spokane, WA.
27. **Nicholson, C.** 2019. *Changes to the Western Eurasian Hominin Climate Niche*. Presented at the 2019 Society of American Archaeology Conference, Albuquerque, NM.
28. ***Nicholson, C.** 2018. *Wyoming Needs More...Water (not cowboys): Managing Water Data for an Uncertain Tomorrow*. Presented at the University of Wyoming Geographic Information Science Day. Laramie, WY.
29. ***Nicholson, C.** 2018. *Wyoming’s Public Water System Surveys*. Presented at the Wyoming Water Development Commission Meeting. Gillette, WY.
30. ***Nicholson, C.** 2018. *Better Late than Early: Abnormal Snowpack Melt-Out and Drought in Wyoming*. Presented at the Wyoming Association of Rural Water Systems, Spring Training Expo. Casper, WY.

31. ***Nicholson, C.** 2018. *The Shape of Water Resources, Data, and Engineering in Wyoming*. Presented at the University of Wyoming College of Engineering, Spring Lecture Series. Laramie, WY.
32. Hatch, R., and **C. Nicholson**. 2018. *From Drifts to Dams: Following Wyoming's Water Resources through Story Maps*. Presented at the 2018 GIS in the Rockies Conference, Denver, CO.
33. Hatch, R., and **C. Nicholson**. 2018. *The Wyoming Water and Climate Atlas*. Presented at the 2018 Elevations Geospatial Summit. Saratoga, WY.
34. Robinson, E., **C. Nicholson**, and R. Kelly, 2018. *Late Holocene climate change and human demography in the American Southwest: a view from the 'periphery'*. Presented at the 2018 Southwest Symposium, Denver, CO.
35. Robinson, E., **C. Nicholson**, and R. Kelly, 2018. *Radiocarbon Big Data and Holocene Population Dynamics in the Great Basin*. Presented at the 2018 Great Basin Archaeological Conference, Salt Lake City, UT.
36. ***Nicholson, C.** 2017. *Laramie's Past, Present, and Future Climate: A Careful Look into the Modeled Crystal Ball*. Presented at the Laramie Local Food Group Summer Symposium. Laramie, WY.
37. Hatch, R., and **C. Nicholson**, 2017. *Give Us Metadata or Give Us Death! Streamlining data collection and distribution of Wyoming's geospatial water data*. Presented at the 2017 GIS in the Rockies Conference, Denver, CO.
38. Gill, P., J. Pring and **C. Nicholson**, 2017. *Streamlining the Development of a Statewide Water GIS: Methods & Tools*. Presented at the 2017 GIS in the Rockies Conference, Denver, CO.
39. Egeland, C., **C. Nicholson**, K. Covell, R. Sanderford, and K. Welch, 2017. *Cutmark Orientation and the Identification of Skill in Experimental and Middle Paleolithic Contexts*. Presented at the 2017 Society of American Archaeology Conference, Vancouver, B.C.
40. **Nicholson, C.**, 2016. *A Paleoclimate Model of Neanderthal Landscape-Use during the Last Interglacial*. Presented at the 2016 Society of American Archaeology Conference, Orlando, FL.
41. ***Nicholson, C.** 2016. *Wyoming State Climate Office Update*. Presented at the High Plains Regional Climate Center Regional Climate Services Workshop. University of Nebraska, Lincoln, NE.
42. Robinson, E., H.J. Zahid, **C. Nicholson**, and R. Kelly, 2016. *Holocene Climate Change and Human Population Growth Rates*. Presented at the 2016 Society of American Archaeology Conference, Orlando, FL.

43. **Nicholson, C.**, T. Bergantino, and J. Mckay, 2016. *Water and Climate Web Atlas: An interactive application for Wyoming Stakeholders*. Presented at the 2016 American Association of State Climatologists Meeting, Santa Fe, NM.
44. **Nicholson, C.**, T. Bergantino, and J. Mckay. 2016. *Providing Wyoming's Diverse Stakeholder-Groups Water and Climate Information via a Web Atlas*. Presented at the 2016 WyGEO Conference, Cheyenne, WY.
45. **Nicholson, C.**, 2016. *Lightning Talk: The Wyoming Water and Climate Web Atlas*. Presented at the 2016 American Water Resources Association Conference, Orlando, FL.
46. **Nicholson, C.**, 2016. *Patterns of Snowfall, Snowmelt, Snow Season Length, and Drought in the Green and Platte River Basins, Wyoming*. Presented at the 2016 American Water Resources Association Conference, Orlando, FL.
47. ***Nicholson, C.** 2015. *The Water and Climate Web Atlas*. Presented at University of Wyoming, WyGISC Geospatial Forum Series. Laramie, WY.
48. ***Nicholson, C.** 2015. *2015 Climate Summary and the new Water and Climate Web Atlas*. Presented at the Wyoming Association of Rural Water Systems, Fall Training Expo. Lander, WY.
49. ***Nicholson, C.** 2015. *Ode to Teacups*. Presented at the 2015 Wyoming International Map Day, University of Wyoming. Laramie, WY.
50. McKay, J., C. **Nicholson**, and T. Bergantino. 2015. *Wyoming's Interactive Water and Climate Web Atlas*. Presented at the 2015 WyGEO Conference, Casper, WY.
51. **Nicholson, C.** 2014. *Drought Impacts and the Security of Wyoming's Future Water Resources: Online Decision Making Tools for Multiple Water Use Sectors*. Presented at the International Water Association Water, Energy and Climate Conference, Mexico City, Mexico.
52. ***Nicholson, C.** 2014. *What's New with Water and Climate in Wyoming?* Presented at the Wyoming Association of Rural Water Systems, Spring Training Expo. Casper, WY.
53. ***Nicholson, C.** 2013. *Climate, Drought, and Online Water Resources*. Presented at the Wyoming Association of Rural Water Systems, Fall Training Expo. Laramie, WY.
54. **Nicholson, C.**, T. Bergantino, and J. Pavlica. 2013. *GIS Modeling of Environmental and Recreational Stream Flows in the Snake-Salt River Basin, Wyoming*. Presented at the 1) 2013 Society for Conservation GIS Annual Meeting, Monterey, CA., 2) 2013 GIS in the Rockies Conference, Denver, CO. and 3) 2013 GeCo West Conference, Laramie, WY.

55. Gray, S., F. Ogden, and **C. Nicholson**. 2013. *Risk of Climate Variability and Change in the Rocky Mountain West*. Presented at the 2013 CI-Water Teachers Summer Institute. Salt Lake City, UT.

56. ***Nicholson, C.** 2012. Alumni Career Panelist. Colorado State University, Department of Anthropology, Fort Collins, CO.

57. ***Nicholson, C.** 2012. Water Industry Panelist. 1st Annual CI-WATER EPSCoR Symposium. Water Industry Panelist. Salt Lake City, UT.

58. ***Nicholson, C.** 2012. *Online Mapping Systems for Delivering Wyoming's Hydroclimatic Data*. Present at University of Wyoming, WyGISC Geospatial Forum Series. Laramie, WY.

59. ***Nicholson, C.** 2012. *Living with Less? A Brief History of Climate and Precipitation in Laramie, WY*. Presented at University of Wyoming, Never Drink Downstream: Factual Tales and Artful Musings on Wyoming Water. Laramie, WY.

60. **Nicholson, C.** 2012. *Climate Data Retrieval*. Presented at the Wyoming Geographic Organization 1st Annual Conference, Cheyenne, WY.

61. **Nicholson, C.** and T. Bergantino. 2012. *Characterizing Wyoming's Climate: Using Spatially-Gridded PRISM Climate Data to Visualize Climate Patterns in Wyoming's River Basin Plans*. Presented at the 2012 GIS in the Rockies Conference, Denver, CO.

62. Welch, K., C. Egeland, and **C. Nicholson**. 2012. *Experimental Determinations of Cutmark Orientation and their Implications for Reconstructing Prehistoric Butchery Behavior*. Presented at the 2012 Society of American Archaeology Conference, Memphis, TN.

63. **Nicholson, C.** 2012. *Data Services and Online Mapping Tools for Delivering Wyoming's Hydroclimatic Resources*. Presented at the Wyoming Engineering Society, 92nd Annual Convention, Sheridan, WY.

64. **Nicholson, C.** and T. Bergantino. 2012. *Point-Specific, Online Climate Data Retrieval: Developing Improved Methods for Accessing Wyoming's Climate Data through Online Web Mapping Application*. Presented at the 2012 American Water Resource Association Specialty Conference, GIS and Water Resources VII. New Orleans, LA.

65. Egeland, C., B. Gasparian, D. Arakelyan, R. Byerly, R. Ghukasyan, and **C. Nicholson**. 2011. *Excavations at new open-air Middle Paleolithic sites in the Debed River Valley, Armenia*. Presented at the 2011 Society of American Archaeology Conference, Sacramento, CA.

66. Arakawa, F., J. Merewether, and **C. Nicholson**. 2011. *Evaluating Chaco Influences in the Central Mesa Verde Region Using Material Culture during the Chaco and Post-Chaco Periods*. Presented at the 2011 Society of American Archaeology Conference, Sacramento, CA.

67. **Nicholson, C.** 2010. *The Water Resources Data System Update*. Presented at the 2010 Wyoming Water Association Conference. Laramie, WY.

68. Egeland, C., R. Byerly, and **C. Nicholson**. 2010. *New Field Investigations at the Olsen-Chubbuck Site, Cheyenne County, Colorado*. 68th Annual Plains Anthropological Conference. Bismarck, ND.

69. **Nicholson, C.** 2010. *Aerial Imagery, Irrigated Lands and River Basin Planning: Providing Wyoming's Stakeholders with Online Decision Support Tools*. Presented at the 2010 GIS in the Rockies Conference. Loveland, CO.

70. Egeland, C., B. Gasparian, D. Arakelyan, R. Byerly, R. Ghukasyan, and **C. Nicholson**. 2010. *New Data on the Paleolithic Settlement of the Lori Depression, Northern Armenia*. Presented at the 2010 Paleoanthropology Society Annual Meeting, St. Louis, MO.

71. Gray, S.T., **C. Nicholson**, and T. Bergantino. 2010. *Online Mapping Systems for Hydroclimatic Data Delivery*. Presented at the American Water Resource Association Specialty Conference, GIS and Water Resources VI. Orlando, FL and the Energy Resources and Produced Water Conference. Laramie, WY.

72. ***Nicholson, C.** 2009. *Online Decision-Making Tools for Wyoming's Water Stakeholders: Data Services and Groundwater Planning*. Presented at the Wyoming Geological Association. Casper, WY.

73. Gray, S.T., **C. Nicholson**, and T. Bergantino. 2009. *Online Mapping Systems for Climate Data Delivery*. Presented at the 2009 American Geophysical Union Conference. San Francisco, CA.

74. Arakawa, F. and **C. Nicholson**. 2009. *Modeling Quarry Sites in the Central Mesa Verde Region*. Presented at the 2009 Society of American Archaeology Conference, Atlanta, GA. and 2009 Pecos Conference, Cortez, CO.

75. **Nicholson, C.**, T. Bergantino, and S. Gray. 2008. *Wyoming's World Wide Water Web*. Presented at the 2008 ESRI Southwest Users Group Conference. Laramie, WY.

76. **Nicholson, C.**, L. Scheiber, J. Finley, and M. Boyle. 2008. *Developing a Predictive GIS Model of Bighorn Sheep Traps in Northwest Wyoming*. Presented at the 2008 ESRI Southwest Users Group Conference. Laramie, WY.

77. Gee, J., S. Bloch, M. Boyle, J. Finley, L. Scheiber, and **C. Nicholson**. 2006. *An Integrated GIS, GPS Mapping Protocol at Stone Circle Sites on the Northwestern Plains*. Presented at the 64th Annual Plains Conference, Topeka, KS.

78. **Nicholson, C.** 2004. *Selective Fragmentation and Cutmark Bias in Small-Animal Taphonomy: Ethno-Zooarchaeology among the Aché of Eastern Paraguay*. Presented at 2004 Society of American Archaeology Conference, Montreal, Canada.

79. **Nicholson, C.** 2001. *Differential Patch Utilization: Risk Reduction or Diet Breadth Change in the Calispell Valley, Washington.* Presented at the 55th Annual Northwest Archaeology Conference, Boise, ID.
80. **Nicholson, C.** and L. Todd. 2000. Maxillary Dentition Analysis of Late Archaic Bison from the Kaplan-Hoover Site: Metrics, Ontogenetic Change, and Demographics. Midwest/Plains 2000 Conference. St. Paul, MN.
81. Bohn, A., **C. Nicholson**, and L. Todd. The Burrus Mammoth: Fluvial Transportation of a Cranium and Tusk Uncovered in Pleistocene River Gravel. Midwest/Plains 2000 Conference. St. Paul, MN.
82. Egeland, C.P., J. Grutt, **C. Nicholson**, and L. Todd. 1999. *25SX348, Archaeology on the Level: Examining the Scatters within the Patches Using Spatial Analysis in the Ogallala National Grassland, Sioux County, Nebraska.* 57th Annual Plains Anthropological Conference. Laramie, WY.

NON-REVIEWED PUBLICATIONS & TECHNICAL REPORTS

1. Kintigh, K., and **C. Nicholson**, 2021. *Digital Archive of Huhugam Archaeology (DAHA)-White Paper.* Prepared for the National Endowment for Digital Humanities, Washington, D.C. doi:10.48512/XCV8465750.
2. Hegmon, M., and **C. Nicholson**, 2020. The Mimbres Pottery Images Digital Database and the New Search Function. *The SAA Archaeological Record.* 20:10-15.
3. Sharma, V., **C. Nicholson**, T. Bergantino, J. Cowley, B. Hess, and J. Tanaka, 2018. *University of Wyoming Agricultural Climate Network (WACNet).* *Wyoming Agricultural Experiment Station, 2018 Field Days Bulletin.* University of Wyoming, Laramie, WY.
4. Hansen, K., **C. Nicholson**, and G. Paige, 2015. *Wyoming's Water: Resources and Management.* University of Wyoming Extension Bulletin # B-1272. Laramie, WY.
5. **Nicholson, C.** 2014. Keeping Track of Wyoming's Water and Climate at the Water Resources Data System. *Wyoming Livestock Round-up.* Volume 26.
6. Bergantino, A. and **C. Nicholson**. 2013 Climate Technical Memorandum. *Snake/Salt River Basin Plan Update.* Prepared for the Wyoming Water Development Commission, Cheyenne, Wyoming.
7. **Nicholson, C.** 2013. Water Conservation Technical Memorandum. *Snake/Salt River Basin Plan Update.* Prepared for the Wyoming Water Development Commission, Cheyenne, Wyoming.

8. **Nicholson, C.**, C. Egeland, and B. Gasparian. 2012. Predicting Prehistoric Site Location in the Southern Caucasus. *ArcNews Magazine*. Winter 2011/2012.
9. Gray, S.T., **C. Nicholson**, and M. Ogden. 2010. *Greater Yellowstone Network: Climate of 2008*. Natural Resource Technical Report NPS/GRYN/NRR–2010/173. National Park Service, Fort Collins, Colorado.
10. **Nicholson, C.**, A. Bergantino, and S. Gray. 2009. Wyoming Shares Water Resources Data. *ArcNews Magazine*. Winter 2009/2010.
11. Arakawa, F. and **C. Nicholson**. 2008. Early Commuting: Exploring the Mobility of Prehistoric People. *ArcUser Magazine*, Summer Issue.
12. Wagers, S. and **C. Nicholson**. 2008. What are Archaeological Field Technicians Paid? *SAA Record*. 8(2):36-39.
13. Gray, S., **C. Nicholson**, T. Dietrich, S. Larson. 2007. *Greater Yellowstone Network: Climate of 2007*. Natural Resource Technical Report NPS/GRYN/NRR–2009/076. National Park Service, Fort Collins, Colorado.
14. **Nicholson, C.**, and D.A. Harder. 2006. *Archaeological and Historical Survey Report, LM0509 Potlatch-Highway 95 Cellular Tower, Latah County, Idaho*. On file at Office of Archaeology and Historic Preservation, Boise, Idaho.
15. **Nicholson, C.**, and D.A. Harder. 2006. *Archaeological and Historical Survey Report, LM0508 Potlatch Cellular Tower, Latah County, Idaho*. On file at Office of Archaeology and Historic Preservation, Boise, Idaho.
16. **Nicholson, C.** 2005. *Official Latah County Rural Address Book*. Map Book on File at Latah County Courthouse, Moscow, Idaho.
17. Harder, D., and **C. Nicholson**. 2005. *Cultural Resource Survey for the Five Mile Prairie Cellular Tower, Location WA-986-01, Spokane County, Washington*. On file at Office of Archaeology and Historic Preservation, Olympia, Washington.
18. Harder, D., J. Creighton, and **C. Nicholson**. 2004. *Archaeological Survey of Penitentiary Grounds at Walla Walla, Washington*. On file at Washington State Department of Corrections, Walla Walla, Washington.
19. **Nicholson, C.** and J. Patterson. 2003. *Cultural Resource Inventory of RSA USA, Inc. Marlboro Film Location Near Cottonwood Creek San Juan County, Utah*. On file at the Bureau of Land Management, Moab Field Office. MOAC Report No. 03-92.
20. **Nicholson, C.** and K. Montgomery. 2003. *Cultural Resource Inventory of Westport Oil and Gas Company's Proposed Eight Well Locations on Glen Bench, Uintah County, Utah*. On file at the Bureau of Land Management, Price Field Office. MOAC Report No. 03-97.

21. **Nicholson, C.** and K. Montgomery. 2003. *Cultural Resource Inventory of Klabzula Oil and Gas Inc. Proposed Well Location, Carbon County, Utah.* On file at the State of Utah School and Institutional Trust Lands Administration and Division of Wildlife Resources, Salt Lake City. MOAC Report No. 03-98.
22. **Nicholson, C.** and K. Montgomery. 2003. *Cultural Resource Inventory of Westport Oil and Gas Company's Proposed Well Location, Access Routes, and Pipelines in Southman Canyon, Uintah County, Utah.* On file at the Bureau of Land Management, Vernal Field Office. MOAC Report No. 03-101.
23. **Nicholson, C.** and K. Montgomery. 2003. *Cultural Resource Survey of Trigon Sheehan's Winter Ridge/Wolf Point Six Mile Pipeline in Grand County, Utah.* On file at the Bureau of Land Management, Moab Field Office, MOAC Report No. 03-140.
24. **Nicholson, C.**, and Montgomery, K. 2003. *Cultural Resource Survey of Inland Resources Ashley Unit, T 9S, R 25E, Sec. 22, 23, and 25, Duchesne County, Utah.* On file at the Bureau of Land Management, Vernal Field Office, MOAC Report No. 03-59.
25. **Nicholson, C.**, and F. Arakawa. 2002. The History and Artifacts of the Henley Site. In *Stratigraphic and Geomorphic Context of the Henley Site, Whitman County, WA.*, edited by Huckleberry, G., K. Boula, and I. Buvit. Manuscript on file at Washington State University.
26. Donaldson, C. and **C. Nicholson**. 1999. *A Census of Human Remains and Summaries of American Indian Cultural Artifacts at the Fort Collins Museum.* Document on file at Department of the Interior, U.S. Government.

ARCHAEOLOGIAL & GIS EXPERIENCE

Archaeologist, 2018. University of Wyoming Archaeology Field School. Phase I and II reconnaissance. Laramie, WY. Principal Investigator: Todd Surovell

GIS Consultant. 2009–2017. Lori Depression Paleoanthropological Project: Survey and excavation of Paleolithic sites in the Debed River Valley and its tributaries, Armenia. Principal Investigator: Charles Egeland

GIS Consultant. 2/2013. Climate map production for 2nd edition of *Mountains and Plains: The Ecology of Wyoming Landscapes*. Yale University Press. Author: Dennis Knight, University of Wyoming

GIS Consultant. 2010. University of North Carolina-Greensboro: Olsen-Chubbuck Archaeological Project, Cheyenne County, CO. Principal Investigators: Charles Egeland and Ryan Byerly

GIS Consultant. 5/2006 – 5/2008. Indiana University Archaeology Field School, Bighorn Basin, WY. Principal Investigators: Laura Scheiber and Judson Finley

Project Archaeologist. 1/2006 – 6/2006. Plateau Archaeological Investigations, Idaho Cell Tower Surveys. Principal Investigator: David Harder

Project Archaeologist. 9/2004 – 10/2004. Plateau Archaeological Investigations, Hanford Survey, Richland, WA. Principal Investigator: David Harder

Graduate Research. 6/2004 – 8/2004. Research feasibility trip for ethnoarchaeology research among the Ur Islanders in Vanuatu. Principal Investigators: Sally Starkey and Chris Nicholson

Project Archaeologist. 6/2003 – 8/2003. Montgomery Archaeological Consultants, Uintah Basin, UT. Principal Investigator: Keith Montgomery

Crew Member. 8/2002 – 11/2002. Washington State University, Geoarchaeological Assessment, Hay, WA. Principal Investigator: Dr. Gary Huckleberry

Graduate Research. 7/2002 – 8/2002. Human Evolutionary Ecology research among the Achuar in the Ecuadorian Amazon. Principal Investigator: Dr. John Patton

Graduate Research. 5/2001 – 8/2001. Research feasibility trip for Human Evolutionary Ecology research among the Maku Nadeb (Brazil) and the Araona (Bolivia), South America. Principal Investigators: Robert Walker and Chris Nicholson

Field Technician. 3/2001 – 6/2001. Hardlines Design Co. Phase I and II surveys throughout Ohio and Mississippi. Principal Investigator: R. Joe Brandon

Field Technician. 12/2000 – 2/2001. Hardlines Design Co. Harmony Brick Works mitigation, PA. Principal Investigator: R. Joe Brandon

Crew Member. 4/2000 – 6/2000. Universitaet Tubingen, Hohle Fels Cave Archaeology Project, Germany. Principal Investigators: Prof. Dr. Nicholas Conard and Kurt Langguth

Crew Member. 5/1998 – 8/1999. Colorado State University, Hudson-Meng Bison Bonebed, NE.; Kaplan-Hoover Bison Kill, CO.; Vore Buffalo Jump Site, WY. Principal Investigators: Dr. Lawrence Todd and Dr. David Rapson

TEACHING & MENTORING

Courses

Spring 2025 Arizona State University, School of Human Evolution and Social Change

- ASB 494/591 Social Science Data Lifecycle and Governance

Fall 2024 Arizona State University, School of Human Evolution and Social Change

- ASB 799 Dissertation
- ASB 499 Individualized Instruction

Summer 2022 Arizona State University, School of Human Evolution and Social Change

- ASB 792 Research

Spring 2022 Arizona State University, School of Human Evolution and Social Change

- ASB 590 Reading and Conference

Spring 2021 Arizona State University, School of Human Evolution and Social Change

- ASB 590 Research and Conferences Graduate Seminar

Fall 2015 University of Wyoming, Department of Anthropology, Lecturer

- ANTH 1200: Introduction to Cultural Anthropology

Fall 2003 Washington State University, Professional Writing Tutor

Fall 2003 Washington State University, Student Athlete Tutor

Advising and Mentoring

PhD	Julia Furlong (ASU, Co-Chair)
Postdoctoral Scholars	Sarah Striker (ASU) Katherine Dungan (ASU) Brian McCray (ASU)
Graduate Intern	Jamie Pettit (University of Michigan)
Undergrad Intern	Rishik Kolli (ASU Barrett Honor College) Ariyal Jain (ASU Barrett Honor College) Tess Ward (ASU Barrett Honor College)

PROFESSIONAL ACTIVITIES & COMMITTEES

2024-Present	CatMapper Board Member
2024-Present	NFDI4Objects Advisory Board Member
2025-Present	Council for the Preservation of Anthropological Records (CoPAR) Advisory Board Member
2020-2025	Coalition for Archaeological Synthesis Board Member
2019	Universities Council on Water Resources, University of Wyoming Delegate
2018-2019	Upper Missouri River Basin Monitory Network Committee
2018	University of Wyoming - Open Access and Institutional Repository Task Force Member
2007-2019	State of Wyoming - Water Forum Member
2011-2014	Education and Scholarship Board Member, RM-URISA
2007-2013	Albany County, Wyoming Planning and Zoning Commission
2012	GIS in the Rockies Conference. Session Chair Session.
2006-2007	Latah County, Idaho Historic Preservation Committee
2006-2007	Moscow, Idaho Transportation Commission
2004-2007	Latah County, Idaho GIS Committee

PROFESSIONAL ASSOCIATIONS

2023-Present	Archaeology Society of Virginia
2022-Present	Arizona Archaeological and Historical Society
2019-Present	American Cultural Resources Association
2019-Present	Arizona Archaeological Council
2000-Present	Society of American Archaeology
2015-2019	American Association for the Advancement of Science
2012-2019	Wyoming Geospatial Organization

2011-2019	American Water Resources Association
2011-2019	Urban and Regional Information Systems Association-Rocky Mountains
2011-2019	America Association of State Climatologists
2010-2019	Wyoming Water Association
2013	Society for Conservation GIS

REVIEW & EDITIORIAL BOARDS

2014-Present	Editorial Board - Journal of Archaeological Science: Reports
2007-Present	Reviewer - Journal of Archaeological Science
2024	Reviewer – Journal of Archaeological Method and Theory
2024	Reviewer – Kiva
2023	Reviewer – Scientific Data
2022	Reviewer – Advances in Archaeological Practices
2022	Reviewer – Journal of Maps
2021	Reviewer – Sage Research Methods
2020	Reviewer – iScience
2020	Reviewer – Journal of Ecological Anthropology
2019	Reviewer – Proceedings for the 5 th International Conference on Water Resources and Environment
2018	Reviewer – Journal of Atmospheric and Oceanic Technology

CERTIFICATIONS

2022	Defense POW/MIA Accounting Agency Academy Partner Orientation Training
2019	Register of Professional Archaeologists (#55949986)
2006	FEMA Certification for Management of Floodplain through the NFIP

RELATED SKILLS

Software: Adobe Acrobat Suite, Adobe Illustrator, Adobe Photoshop, ESRI ArcView 3.x, ESRI ArcGIS 9 & 10, ESRI ArcIMS, GNSS Solutions, GPS Pathfinder, Microsoft Office Suite, MobileMapper, SPSS, Statistica, Surfer 7.0, Tableau, TerraSync 2.21

GIS Hardware: HP-48 Data Logger, Magellan GPS 320, PC's, Scanner, Sokkia and Pentax PCS-5 EDM Total Stations, Thales Promark 3, Trimble GeoExplorer CE Series

Programming Languages: HTML, Python, R, SQL