**Christopher M. Nicholson PhD, RPA**

# **Arizona State University**

# **Center for Digital Antiquity**

# **School of Human Evolution and Social Change**

# PO Box 872402, Tempe, AZ  85287-2402

# (480) 965-6510

# Christopher.M.Nicholson@asu.edu

**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**

10/2019 – Present **Executive Director and Associate Research Professor**, Center for

 Digital Antiquity, School of Human Evolution and Social Change,

 Arizona State University, Tempe, AZ.

2017 – Present **Adjunct Assistant Professor**, Department of Anthropology,

 University of Wyoming, Laramie, WY.

2011 – 2019 **Director**, Water Resources Data System & Wyoming State Climate

 Office, Dept. of Civil and Architectural Engineering, University of

 Wyoming, Laramie, WY.

2007 – 2011 **Assistant Research Scientist**, Water Resources Data System &

 Wyoming State Climate Office, Dept. of Civil and Architectural

 Engineering, University of Wyoming, Laramie, WY.

2004 – 2006 **Associate Planner and GIS Specialist**, Latah County, ID Planning and

 Building Department, Moscow, ID.

2004 – 2006 **Project Archaeologist** (part-time), Plateau Archaeological

 Investigations, Pullman, WA.

2003 **Project Archaeologist**, Montgomery Archaeological Consultants,

 Moab, UT

2000-2001 **Archaeology Field Technician**. Hardlines Design Company,

 Columbus, OH.

**GRANTS & AWARDS**

2021 National Science Foundation. (Co-Principal Investigator with Charles

 Egeland, Rebecca Schwendler, Jing Deng, and Minjeong Kim

* *A network approach to Magdalenian social landscapes* ($248,087).

2019 Arizona State University, Institute for Social Science Research Grant (Co-

 Principal Investigator with Keith Kintigh)

* *Addressing the Challenges of Archiving Complex Archaeological Datasets* ($7,881)

2018 National Mesonet Program (Principal Investigator)

* *2018-2019 Teaming Agreement* ($58,333)

2017 United States Department of Agricultural (USDA) Research Service Grant (Co-

 Principal Investigator with Dr. Vivek Sharma)

* *Climate Impact Assessment on Agriculture in Wyoming and Montana: Spatial-temporal variability of Climatic Variables, Extreme Events, and Evapotranspiration* ($13,039)

2016 Wyoming State Engineer’s Office Grant (Principal Investigator)

* *Wyoming Agricultural Climate Network* – *WACnet* ($75,000)

2015 Rocky Mountain URISA GIS Scholarship ($500)

2013 Wyoming State Engineer’s Office Grant (Principal Investigator)

* *Wyoming Hydrographer’s Data Modernization* ($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)

**PUBLICATIONS**

**PEER-REVIEWED**

1. 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
2. **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/10.11141/ia.58.22
3. Freeman, J., Anderies, 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
4. 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.
5. Slimak, L., and **C. Nicholson**, 2020. Cannibals in the Forest: A comment on Defleur and Desclaux (2019). *Journal of Archaeological Science*. 117: 105034.

1. 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.
2. **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. doi:10.1080/14614103.2019.1654651
3. **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.
4. Robinson, E., **C. Nicholson**, and R. Kelly, 2019. The Importance to Spatial Data to National Archaeological Databases. *Advances in Archaeological Practice*. 1-14. doi:10.1017/aap.2019.29.
5. **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.
6. **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.
7. 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
8. 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.
9. 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.
10. 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
11. 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.
12. 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.
13. 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.
14. 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.

**BOOK CHAPTERS**

1. **Nicholson, C**. (In Press). Challenges of Archiving Complex Archaeological Datasets for Reuse. In Kandel, A (Eds.) *Human Origins – Digital Future.* Propylaeum Press ebook, Heidelberg.
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. **Nicholson, C.** 2021. *Advancing our Digital Cultural Heritage using the FAIR Principle: Finable, Accessible, Interoperable, and Reusable Archaeological Data*. To be presented at the 2021 Great Basin Conference, Las Vegas, NV..
2. Fernandez, R.and **C. Nicholson.** 2021. *Update: The Digital Archive of Huhugam Archaeology.* Arizona Archaeology Council Fall Conference, Phoenix, AZ.
3. 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.
4. **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.
5. **\*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.
6. **\*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.
7. 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.
8. **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.
9. **\*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.
10. **\*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.
11. 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/webinarsondemand)
12. **Nicholson, C.** 2020. *Advancing our Digital Cultural Heritage using the FAIR Principle: Finable, Accessible, Interoperable, and Reusable Archaeological Data*. Presented at the 2020 Colorado Council of Professional Archaeologists. Pueblo, CO.
13. **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.
14. **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.
15. **Nicholson, C.** 2019*. Changes to the Western Eurasian Hominin Climate Niche*. Presented at the 2019 Society of American Archaeology Conference, Albuquerque, NM.

1. **\*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.
2. **\*Nicholson, C**. 2018. *Wyoming’s Public Water System Surveys.* Presented at the Wyoming Water Development Commission Meeting. Gillette, WY.
3. **\*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.
4. **\*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.
5. 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.
6. Hatch, R., and **C. Nicholson.** 2018. *The Wyoming Water and Climate Atlas*. Presented at the 2018 Elevations Geospatial Summit. Saratoga, WY.
7. 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.
8. 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.
9. **\*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.
10. 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.
11. 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.
12. 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.
13. **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.
14. **\*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.
15. 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.
16. **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.
17. **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.
18. **Nicholson, C.,** 2016. *Lightning Talk: The Wyoming Water and Climate Web Atlas.* Presented at the 2016 American Water Resources Association Conference, Orlando, FL.
19. **Nicholson, C.,** 2016. *Patterns of Snowfall, Snowmelt, Snow Season Length, and Drought in the Green and Platter River Basins, Wyoming.* Presented at the 2016 American Water Resources Association Conference, Orlando, FL.
20. **\*Nicholson, C**. 2015.  *The Water and Climate Web Atlas.* Presented at University of Wyoming, WyGISC Geospatial Forum Series. Laramie, WY.
21. **\*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.
22. **\*Nicholson, C**. 2015.  *Ode to Teacups.* Presented at the 2015 Wyoming International Map Day, University of Wyoming. Laramie, WY.
23. McKay, J., **C. Nicholson**, and T. Bergantino. 2015. *Wyoming’s Interactive Water and Climate Web Atlas*. Presented at the 2015 WyGEO Conference, Casper, WY.
24. **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.
25. **\*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.
26. **\*Nicholson, C**. 2013. *Climate, Drought, and Online Water Resources*. Presented at the Wyoming Association of Rural Water Systems, Fall Training Expo. Laramie, WY.
27. **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.
28. 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.
29. **\*Nicholson, C.** 2012. Alumni Career Panelist. Colorado State University, Department of Anthropology, Fort Collins, CO.
30. **\*Nicholson, C.** 2012. Water Industry Panelist. 1st Annual CI-WATER EPSCoR Symposium. Water Industry Panelist. Salt Lake City, UT.
31. **\*Nicholson, C.** 2012. *Online Mapping Systems for Delivering Wyoming’s Hydroclimatic Data***.** Present at University of Wyoming, WyGISC Geospatial Forum Series. Laramie, WY.
32. **\*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.
33. **Nicholson, C.** 2012. *Climate Data Retrieval.* Presented at the Wyoming Geographic Organization 1st Annual Conference, Cheyenne, WY.
34. **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. P*resented at the 2012 GIS in the Rockies Conference, Denver, CO.
35. 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.
36. **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.
37. **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.
38. 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.
39. 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.
40. **Nicholson, C.** 2010. *The Water Resources Data System Update*. Presented at the 2010 Wyoming Water Association Conference. Laramie, WY.
41. Egeland, C., R. Byerly, and **C. Nicholson**.2010. *New Field Investigations at the Olsen-Chubbuck Site, Cheyenne County, Colorado.* 68thAnnual Plains Anthropological Conference. Bismarck, ND.
42. **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.
43. 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.
44. 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.
45. **\*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.
46. 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.
47. 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.
48. **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.
49. **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.
50. 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.
51. **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.
52. **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.

# **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.

# 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.

1. 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. Hegmon, M., and **C. Nicholson**,2020. The Mimbres Pottery Images Digital Database and the New Search Function. *The SAA Archaeological Record.* 20:10-15.
2. 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.
3. Hansen, K., **C. Nicholson**, and G. Paige, 2015. *Wyoming’s Water: Resources and Management*. University of Wyoming Extension Bulletin # B-1272. Laramie, WY.
4. **Nicholson, C**. 2014. Keeping Track of Wyoming’s Water and Climate at the Water Resources Data System. *Wyoming Livestock Round-up*. Volume 26.
5. Bergantino, A. and **C. Nicholson**. 2013 Climate Technical Memorandum. *Snake/Salt River Basin Plan Update.* Prepared for the Wyoming Water Development Commission, Cheyenne, Wyoming.
6. **Nicholson, C**. 2013. Water Conservation Technical Memorandum. *Snake/Salt River Basin Plan Update.* Prepared for the Wyoming Water Development Commission, Cheyenne, Wyoming.
7. **Nicholson, C**., C. Egeland, and B. Gasparian. 2012. Predicting Prehistoric Site Location in the Southern Caucasus. *ArcNews Magazine.* Winter 2011/2012.
8. 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.
9. **Nicholson, C**., A. Bergantino, and S. Gray. 2009. Wyoming Shares Water Resources Data. *ArcNews Magazine.* Winter 2009/2010.
10. Arakawa, F. and **C.** **Nicholson**. 2008. Early Commuting: Exploring the Mobility of Prehistoric People. *ArcUser Magazine,* SummerIssue*.*
11. Wagers, S. and **C. Nicholson**.2008. What are Archaeological Field Technicians Paid? *SAA Record.* 8(2):36-39.
12. 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.
13. **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.
14. **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.
15. **Nicholson, C.** 2005. *Official Latah County Rural Address Book*. Map Book on File at Latah County Courthouse, Moscow, Idaho.
16. 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.
17. 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.
18. **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.
19. **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.
20. **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.
21. **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.
22. **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.
23. **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.
24. **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.
25. 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 2021 Arizona State University, School of Human Evolution and Social Change

* 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)

Post-Doc Katherine Dungan (ASU)

Post-Doc Andrea Torvinen (ASU)

Grad Intern Jamie Pettit (University of Michigan)

Undergrad Intern Rishik Kolli (ASU Barrett Honor College)

**PROFESSIONAL ACTIVITIES & COMMITTEES**

2022-Present Catmapper Board Member

2020-Present 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

2007-219 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**

2022-Present Arizona Archaeological and Historical Society

2019-Present American Cultural Resources Association

2019-Present Arizona Archaeological Council

2015-Present American Association for the Advancement of Science

2000-Present Society of American Archaeology

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**

2007-Present Reviewer - Journal of Archaeological Science

2014-Present Editorial Board - Journal of Archaeological Science: Reports

2018-Present Reviewer – Journal of Atmospheric and Oceanic Technology

2021 Reviewer – Sage Research Methods

2020 Reviewer – iScience

2020 Reviewer – Journal of Ecological Anthropology

2019 Reviewer – Proceedings for the 5th International Conference on Water

 Resources and Environment

**CERTIFICATIONS**

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