

NICOLE M. HERZOG
Nicole.herzog@du.edu
303-871-4665
University of Denver, Department of Anthropology
Denver, Colorado

Education

2015 Ph.D., Anthropology: University of Utah, Salt Lake City.
2010 M.S., Anthropology: University of Utah, Salt Lake City.
2005 B.A., Anthropology and Psychology: University of Montana, Missoula.

Appointments

2019 – Present Assistant Professor. University of Denver, Department of Anthropology. Denver, Colorado.
2017 – 2019 Lecturer. Boise State University, Department of Anthropology. Boise, Idaho
2015 – 2017 Postdoctoral Research Associate. Joint Position: University of Utah, Department of Anthropology and the Natural History Museum of Utah. Salt Lake City, Utah
2012 – 2014 Course Instructor. University of Utah, Department of Anthropology. Salt Lake City, Utah

Research Interests

Behavioral and Evolutionary Ecology, past diet reconstruction, Archaeobotany, Paleoethnobotany, starch grain analysis, Hunter-Gatherers, the evolution of fire use, primate foraging strategies. Geographical areas of interest: Great Basin, Plains and Colorado Plateau, east and southern Africa.

Books

Submitted September 2019. **Herzog NM** and Eskanazi, S. Editors. *Women in Great Basin Archaeology*. University of Utah Press.

Journal Articles

2019 (In Review). **Herzog NM**, Parker CH, Keefe ER, and Hawkes K. Fire's impact on threat detection and risk perception among vervet monkeys and implications for hominin evolution. *Journal of Human Evolution*.

2019. **Herzog NM** and Goodale N. Human Behavioral Ecology and Technological Decision-Making in *Handbook of Evolutionary Research in Archaeology*. Edited by A. Prentiss. Springer Nature.

2018. **Herzog NM**, Louderback LA, Pavlik BM. Effects of cultivation on tuber and starch granule morphometrics of *Solanum jamesii* and implications for interpretation of the archaeological record. *Journal of Archaeological Science* 98:1-6.

2017. **Herzog NM**, Baker M, Pavlik BM, Beck K, Creer S, and Louderback LA. A multiproxy approach to archaeobotanical research: Archaic and Fremont diets, Utah. *Journal of Archaeological Science: Reports* 15:169–178.
2017. Pruetz J and **Herzog NM**. Savanna chimpanzees at Fongoli, Senegal, navigate a fire landscape. *Current Anthropology* 58(s16):s337–s350.
2016. **Herzog NM** and Lawlor AT. Reevaluating diet and technology in the Archaic Great Basin using Hogup Cave starch assemblages. *American Antiquity* 81(4):664–681.
2016. **Herzog NM**, Keefe ER, Parker CH, Hawkes K. What's burning got to do with it? Foraging opportunities for savanna-dwelling vervet monkeys in fire-modified landscapes. *American Journal of Physical Anthropology* 159(3):432–441.
2016. Louderback LA, **Herzog NM**, Pavlik BM. Identification of starch granules from wild food plants in arid western North America. *Starch/Starke* 68:1–7.
2016. Parker CH, Keefe ER, **Herzog NM**, O'Connell JF, Hawkes K. The pyrophilic primate hypothesis. *Evolutionary Anthropology* 25:54–63.
2015. Parker C, **Herzog NM**, Keefe EK, O'Connell JF, Hawkes K. A comment on "Burning the land: an ethnographic study of off-site fire use by current and historically documented foragers and implications for the interpretation of past fire practices in the landscape." *Current Anthropology* 56(3): 299-326.
2014. **Herzog NM**, Parker CH, Keefe ER, Coxworth J, Barrett A, and Hawkes K. Fire, travel, and home range expansion: a behavioral response to burning among savanna dwelling vervet monkeys (*Chlorocebus aethiops*). *American Journal of Physical Anthropology*. 154(4): 554-560.
2014. **Herzog NM**. Starch grain analysis in California and the Great Basin. *California Archaeology*. 6(2): 171-189.

Online Resources (Digital Database)

Ethnobotanical guide to the northwest Great Basin. <https://nhmu.utah.edu/native-plants>

Courses Taught

Fundamentals or Archaeology; Sex, Love and Evolution; Native Americans of North America; Evolution and Human Behavior; Introduction to Archaeology; Evolution and Human Behavior; Primate Behavioral Ecology (field school Costa Rica); Culture and the Human Experience; Intro to Four-Field Anthropology

Grants, Fellowships and Awards

- 2019 Research Grant: BLM Applegate FO. *Surprise Valley Digital Ethnobotany*.
- 2018 Research Grant: Wenner-Gren. *Dead Indian Creek Archaeobotany* (Sub-contract with A. Prentiss, University of Montana).
- 2018 AHI Grant and Office of Research support. *Anthropogenic Burning in a Cultural Landscape, Gorongosa National Park, Mozambique*.
- 2017 Cooperative Agreement: BLM Applegate FO. *Archaeological and Archaeobotanical Research Partnership*.
- 2017 URC Faculty Research & Creative Grant: University of Utah. *Recovery and analysis of evidence for ancient human diets in the western Great Basin*.
- 2016 Cooperative Agreement: BLM Applegate FO. *Archaeological and Archaeobotanical Research Partnership*.
- 2016 Research Grant: Leakey Foundation. *Chimpanzees in fire-altered landscapes: Investigating foundations for hominin fire exploitation*.
- 2016 Fellow: STEM Ambassadors Program, National Science Foundation and the University of Utah
- 2016 Science Communication Fellow: Natural History Museum of Utah
- 2015 Cooperative Agreement: BLM Applegate FO. *Edible and Native Plants of Surprise Valley*.
- 2013 Travel Assistance Award: University of Utah Graduate School and the Dept. of Anthropology
- 2012 Research Travel Grant: Associated Students of the University of Utah.
- 2011 Research Grant: Leakey Foundation. *Primate Foraging Strategies in Fire-Altered Landscapes*.
- 2010 Graduate Fellowship: University of Utah
- 2010 Research Grant: Department of Anthropology, University of Utah. *Methods of macro and micro-botanical dietary reconstruction*.
- 2009 Giles W. and Elise G. Mead Foundation Endowed Scholar: University of Utah

Synergistic Activities and Professional Memberships

- Symposium Organizer with S. Eskenazi. 36th Annual Great Basin Archaeological Conference. Women in Great Basin Archaeology. (2018)
- Participant: Workshop on the Analysis of Micro Particles in Archaeological Samples. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany (2016)
- Scientist in the Spotlight: Plants and People – Diets of North America's earliest inhabitants. Public outreach and education. Natural History Museum of Utah (2016)
- Symposium Organizer with L.A. Louderback. 34th Annual Great Basin Archaeological Conference. Frontiers of Archaeobotany in the Great Basin and Northern Colorado Plateau (2016)
- Member: Society for American Archaeology (SAA)
- Member: Great Basin Anthropological Association (GBAA)
- Member: American Association of Physical Anthropologists (AAPA)

Professional Presentations

2019 (INVITED) **Herzog NM**. Fire and human origins. Evolution of Social Complexity seminar series at Arizona State University. Tempe, AZ

2019. **Herzog NM**, Dolinar L, Julison J, Shannon O, Cuthbertson J, and A Prentiss. Using micro and macrobotanical analyses to assess socio-economic strategies at 48PA551, the McKean occupation, Sunlight Basin Wyoming. Presented at the 84th annual meeting of the Society of American Archaeologists: Albuquerque, NM.

2018. (INVITED) **Herzog NM**. Did fire make us human? Searching for the foundations of hominin fire use. Presented at the Annual Board Meeting of the Leakey Foundation. San Francisco, CA.

2018 (PLENARY) **Herzog NM**. Seeing the unseen: microbotanical analyses bring invisible aspects of past diets into the light. Presented at the 36th Great Basin Anthropological Conference. Salt Lake City, Utah.

2018. **Herzog NM**, Louderback LA, Pavlik BM. Comparing starch granules from wild and cultivated *Solanum jamesii* to determine the effects of domestication. Presented at the 83rd annual meeting of the Society of American Archaeologists: Washington DC.

2018. Louderback LA, **Herzog NM**, Pavlik BM and Dillehay T. Reevaluating the earliest evidence for wild potato use in south central Chile. Presented at the 83rd annual meeting of the Society of American Archaeologists: Washington DC.

2017. **Herzog NM**, Pruett J, Hawkes K. Chimpanzees in fire-altered landscapes: investigating foundations for hominin fire use. Presented at the 29th annual meeting of the Human Behavior and Evolution Society: Boise, Idaho.

2016. **Herzog NM**. Establishing an online ethnobotanical database for the northwest Great Basin. Presented at the 35th Great Basin Archaeological Conference: Reno, Nevada.

2016. Louderback LA, **Herzog NM**, Baker M, Magargal K, Pavlik BM. Archaeobotany of the Sigurd to Red Butte Project, Utah. Presented at the 35th Great Basin Archaeological Conference: Reno, Nevada.

2016. Louderback LA, **Herzog NM**, Pavlik BM. Setting new standards for starch grain identification. Presented at the 35th Great Basin Archaeological Conference: Reno, Nevada.

2016. **Herzog NM**. What makes us human? Fire and its role in human evolution. Presented at the Science Café series. Natural History Museum of Utah: Salt Lake City, Utah.

2016. **Herzog NM**. New methods, old artifacts: Reconstructing 8000 year old diets using microscopy. Presented at the Natural History Museum of Utah Continuing education series: Salt Lake City, Utah.

2015. **Herzog NM**, Sager A. What can Hogup Cave starches tell us about diet that we don't already know? Context, Preservation, and the comparison of archaeobotanical analyses. Presented at the 80th Annual Meeting of the Society for American Archaeology.

2014. **Herzog NM** Starches in perspective: lessons from Surprise Valley and Hogup Cave starch analyses. Presented at the 34th Annual Great Basin Archaeological Conference: Boise, Idaho.

2013. **Herzog NM**, Parker CH, Keefe EF, Coxworth J, Hawkes K. Fire, travel, and territorial expansion. Presented at the Northwest Evolution, Ecology, and Human Behavior Symposium: Boise, Idaho.

2013. **Herzog NM** and Grimes A. Where have all the tubers gone? An experimental approach to identifying USO exploitation in the Great Basin. Presented at the 78th Annual Meeting of the Society for American Archaeology: Honolulu, Hawaii.

2010. **Herzog NM**, Cannon M, and Spurling A. Temporal and spatial models of raw material utilization and organization in the eastern Great Basin. Presented at the 32nd Great Basin Anthropological Conference: Layton, Utah.

2008. Mullins D and **Herzog NM** (2008) Protein residue analysis of Paleoarchaic artifacts from the eastern Great Basin: Implications for subsistence. Presented at the Great Basin Anthropological Conference: Portland, Oregon.

Field Station and Research Affiliations

Gorongosa National Park. Gorongosa, Mozambique

Savanna Chimpanzee Research Station. Fongoli, Senegal

Applied Behavioural Ecology and Ecosystem Research Unit, University of South Africa.

El Zota Estacion Biologica. Guapiles, Limon. Costa Rica