

## Lisbeth A. Louderback

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### CURRENT POSITION

Curator of Archaeology, Natural History Museum of Utah  
Assistant Professor, Anthropology Department, University of Utah

### EDUCATION

<b>Ph.D.</b> , Anthropology, University of Washington	2014
<b>M.A.</b> , Anthropology, University of Washington	2009
<b>M.A.</b> , Anthropology, University of Nevada Reno	2007
<b>B.A.</b> , Psychology and Biology, Mills College	1999

### RESEARCH INTERESTS

North American prehistory (especially arid west), quaternary paleoecology, ecology of human diets, origins of agriculture, archaeobotany, palynology, starch grain analysis.

### SELECTED FELLOWSHIPS, AWARDS & HONORS

CSBS Junior Faculty Research Leave Award, University of Utah	2019
Niles Research Fellowship, University of Washington	2014
Graduate School Presidential Dissertation Fellowship, University of Washington	2014
Denise Gaudreau Award for Excellence in Quaternary Studies, AMQUA	2012
Yeager Award for Scholarly Excellence in Archaeology, University of Washington	2012
Yeager Award for Scholarly Excellence in Archaeology, University of Washington	2010
Graduate Opportunities and Minority Achievement Program (GOMAP) Fellowship, Anthropology Department, University of Washington	2006 - 2009
Johnathan O. Davis Scholarship, Desert Research Institute	2006
General Frederick Lander Endowment for Native Americans, Desert Research Institute	2006
Herbert Splatt Scholarship, University of Nevada, Reno	2005
Graduate Student Association Research Award, University of Nevada, Reno	2006
AM-ARCS of Nevada Scholarship	2005
Psychology Research Award, Mills College	1999

### PUBLICATIONS

\*indicates undergraduate, graduate, or postdoc student author

#### Peer-Reviewed:

**Louderback**, L.A. and Pavlik, B.M. (2018) Integrating Modern Vegetation and Ethnographic Data to Understand Dietary Choices in the Past: the Case of the Southern Paiute, Utah. *Human Ecology*. (<https://doi.org/10.1007/s10745-018-0040-9>)

Herzog, N.M., **Louderback**, L.A., Pavlik, B.M. (2018) 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.  
(<https://doi.org/10.1016/j.jas.2018.07.014>)

- Louderback**, L.A. and Pavlik, B.M., (2017) Starch granule evidence for the earliest potato use in North America. *Proceedings of the National Academy of Sciences* 114(29) 7606-7610. (<http://www.pnas.org/content/114/29/7606.full>)
- Herzog\* N.M., Baker\* M., Pavlik B.M., Beck, K., Creer, S., **Louderback** L.A., (2017) A multi-proxy approach to archaeobotanical research: Archaic and Fremont diets, Utah. *Journal of Archaeological Research: Reports*, 15, 169-178. (<http://www.sciencedirect.com/science/article/pii/S2352409X1730161X>)
- Louderback**, L.A., Herzog\*, N.M., Pavlik, B.M. (2016) A New Approach to Identifying Starch Granules of Wild Food Plants from Arid Western North America. *Starch: Stärke*. 68, 1-7 (<http://onlinelibrary.wiley.com/doi/10.1002/star.201600167/full>).
- Bamberg, J., Del Rio, A., Kinder, D., **Louderback**, L., Pavlik, B., Fernandez, C. (2016) Core Collections of Potato (*Solanum*) Species Native to the USA. *American Journal of Potato Research*, 1-8 (<http://link.springer.com/article/10.1007/s12230-016-9536-2>).
- Louderback**, L.A., Field, J., Janetski, J.C. (2015) Curation Practices and Extraction Methods in Relation to Starch Grain Yields from Ground Stone Artifacts. *Journal of Archaeological Science: Reports*, 4, 535-540. ([doi:10.1016/j.jasrep.2015.10.011](https://doi.org/10.1016/j.jasrep.2015.10.011))
- Louderback**, L.A., Rhode, D., Madsen, D.B., Metcalf, M. (2015) Rapid Vegetation Shifts in the Uinta Mountains (Utah and Wyoming, USA) during the Late Pleistocene and Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 438, 327-343. ([doi:10.1016/j.palaeo.2015.08.026](https://doi.org/10.1016/j.palaeo.2015.08.026)).
- Rhode, D. and **Louderback**, L.A. (2015) Bonneville Basin Environments during the Pleistocene-Holocene Transition. In *The Paleoarchaic Occupation of the Old River Bed Delta*, D. Madsen, D. Schmitt and D. Page (Eds.) University of Utah Press, Salt Lake City.
- Louderback**, L.A., Pavlik, B.M. and Spurling, A.M. (2013) Ethnographic and Archaeological Evidence Corroborating *Yucca* as a Food Source, Mojave Desert, USA. *Journal of Ethnobiology* 33, 281-297. (<http://www.bioone.org/doi/abs/10.2993/0278-0771-33.2.281>)
- Louderback**, L.A., Grayson, D.K., Llobera, M. (2011) Holocene Climates and Human Population Densities in the Great Basin, Western USA. *The Holocene* 21, 366-373. (<http://journals.sagepub.com/doi/abs/10.1177/0959683610374888>).
- Benson, L.V., Lund, S.P., Smooth, J.P., Rhode, D.E., Spencer, R.J., Verosub, K.L., **Louderback**, L.A., Johnson, C.A., Rye, R.O., Negrini, R.M. (2011) The Rise and Fall of Lake Bonneville between 45 and 10.5 ka. *Quaternary International*, 235, 57-69 (<http://www.sciencedirect.com/science/article/pii/S1040618210004829>).
- Louderback**, L.A. and Rhode, D. (2009) 15,000 Years of Vegetation Change in the Bonneville Basin: The Blue Lake Pollen Record, *Quaternary Science Reviews*, 29, 1-19 (<http://www.sciencedirect.com/science/article/pii/S0277379108002680>).
- Rhode, D. and **Louderback**, L.A. (2007) Dietary Plant Use in the Bonneville Basin during the Terminal Pleistocene-Early Holocene Transition. In K.E. Graf and D.N. Schmitt, *Paleoindian or Paleoarchaic? Great Basin Human Ecology at the Pleistocene-Holocene Transition*, pp. 231-

247. University of Utah Press, Salt Lake City.

Other Publications:

**Louderback, L.A., Rhode, D., Madsen, D.B., Metcalf, M. (2016)** Uinta Mountains and Lakes: Sensitive Indicators of Climate Change. *Mountain Views: Chronicles of the Consortium for Integrated Climate Research in Western Mountains*, Vol. 10, 49-51.

(<http://www.fs.fed.us/psw/cirmount/publications/mtnviews.shtml>)

Manuscripts In Prep:

Louderback, L.A. and Janetski, J. 11,000 years of vegetation change on the Colorado Plateau: Pollen analysis and conifer leaf anatomy from North Creek Shelter, Utah. *Quaternary Research*.

Louderback, L.A. Diet Breadth and Resource Intensification in relation to Environmental Change. *Journal of Archaeological Science*.

**RESEARCH GRANTS & CONTRACTS**

**Ongoing and Completed Research Grants:**

NSF Archaeology Program (award total: **\$222,024.00**) 2018 - 2021

F&A rate off-campus: 26% to NHMU & Anthro Dept.

“Detecting the Early Stages of Domestication of a Native Potato in Western North America”

PI: Lisbeth Louderback, Co-PI(s): John Bamberg, Alfonso del Rio, David Kinder, Bruce Pavlik, Cynthia Wilson

Utah Dept of Agriculture and Food Specialty Crop Grant (award total: **\$95,000.00**) 2018-2020

“Developing the Four Corners Potato (*Solanum jamesii*) for Market”

PI: Bruce Pavlik, Co-PI: Lisbeth Louderback

BLM Utah (award total: **\$95,644.00**) 2017-2020

F&A rate Colorado Plateau CESU Agreement: 17.5% to NHMU & Anthro Dept.

“Ecosystems and Plant Resources of Archaeological Sites in the Four Corners Region”

PI: Lisbeth Louderback Co-PI(s): Bruce Pavlik and Brian Coddling

U of U Academic Affairs: Group Teaching Grant (award total: **\$7,000.00**) 2018

“Enhancing the student research experience in an interdisciplinary lab”

PI: Andrea Brunelle. Co-PI(s): Lisbeth Louderback, Jennifer Watt

Sustainable Campus Initiative Fund (award total: **\$10,000.00**) 2018

“Gardner Commons Microscope Facility”

PI: Samuel Carter, Co-PI(s): Andrea Brunelle, Lisbeth Louderback, Jennifer Watt

Bureau of Reclamation (BOR) (award total: **\$202,500.00**) 2016-2021

F&A rate Colorado Plateau CESU Agreement: 17.5% to NHMU

“Curating BOR Collections”

PI: Glenna Nielsen-Grimm. Co-PI(s): Lisbeth Louderback.

BLM Utah (award total: **\$66,200.00**) 2015-2022

“Temporary Storage for Cerebus Collection”

PI: Lisbeth Louderback. Co-PI(s): Glenna Nielsen-Grimm

- URC Faculty Research and Creative Grants (award total: **\$5,700.00**) 2017  
 "Re-evaluating the Earliest Evidence for Wild Potato Use in South-central Chile"  
 PI: Lisbeth Louderback
- BLM CESU Agreement (award total: **\$27,500.00**) 2016-2018  
 F&A rate CESU Agreement: 17.5% to NHMU & Anthro Dept.  
 "An Ethnobotanical Approach to Conserving Archaeological and Cultural Resources on BLM Lands"  
 PI: Lisbeth Louderback. Co-PI(s): Nicole Herzog and Jen Rovenpera
- U of U Academic Affairs: Group Teaching Grant (award total: **\$6,873.00**) 2016  
 "Strengthening Our Hands-On Approach to Science"  
 PI: Lisbeth Louderback. Co-PI(s): Jack Broughton, Andrea Brunelle, Mitch Power
- SWCA Environmental Consultants, Inc. (award total: **\$104,286.00**) 2015-2016  
 F&A rate: 32.7% to NHMU & Anthro Dept.  
 "The Archaeobotany of the Sigurd to Red Butte Transmission Line"  
 PI: Lisbeth Louderback
- U of U VP Research Funding Incentive Seed Grant (award total: **\$29,690.00**) 2015 - 2016  
 "The Archaeology and Biology of Early Events in Plant Domestication"  
 PI: Lisbeth Louderback. Co-PI(s): Bruce Pavlik
- NSF (Doctoral Dissertation Improvement Grant) (award total: **\$13,827.00**) 2012 - 2013  
 "The Paleoecology of Diet Breadth in the Basin-Plateau Region, USA"  
 Co-PI(s): Lisbeth Louderback and Donald Grayson.
- Desert Research Institute Grant (award total: **\$8,000.00**) 2011 - 2012  
 "Paleobotany of Utah and Wyoming"  
 PI: David Rhode Co-PI(s): Lisbeth Louderback, David Madsen
- University of Washington, Anthropology Dept. (award total: **\$1,500.00**) 2011  
 "Pilot Dissertation Research Grant", PI: Lisbeth Louderback
- Student Technology Fee Grant, University of Washington (award total: **\$25,403.00**) 2011  
 "Traditional Computing Facilities for the Burke Museum"  
 Co-PI(s): Lisbeth Louderback, Kelly Meyers, Andrea Cohen
- Student Technology Fee Grant, University of Washington (award total: **\$13,426.58**) 2011  
 "Field and Laboratory Equipment for the Burke Museum"  
 Co-PI(s): Lisbeth Louderback, Kelly Meyers, Andrea Cohen
- NSF EPSCoR Increasing Diversity in Science in Nevada (IDIN) (award total: **\$6,000.00**) 2005  
 PI: Lisbeth Louderback Co-PI(s): David Rhode

### **Grants Submitted & Declined:**

- Canyonlands Natural History Association 2018 - 2019  
 (budget total: **\$24,304.68**)  
 "Developing Archaeo-Ecosystem Assessment Methodologies for Bears Ears National Monument"  
 PI: Lisbeth Louderback, Co-PI: Bruce Pavlik, Monticello BLM office

BLM Heritage Resources Preservation Programs (budget total: **\$45,375.00**) 2016 – 2019  
 PI: Lisbeth Louderback Co-PI(s): Nicole Herzog, Bruce Pavlik

NSF Archaeology Program 2016 – 2019  
 “Numic Fires: Ethnoecology, Biogeography, & Paleoecology of Anthropogenic Fire in the American West”  
 PI: Brian Coddling Co-PI(s): Mitchell Power, Senior Personnel: Mariana Di Paolo, Lisbeth Louderback, Michelle Tiley, David Zeanah

### **Grants Currently Under Review:**

Lincoln County Archaeological Initiative (budget total: **\$122,485.00**) 2018 - 2020  
 “Testing the Pinyon Premise: Starch Grain Analysis of Bedrock Milling Slicks and Ground Stone Tools at the Mt. Irish and Shooting Gallery ACECs, Lincoln Co.”  
 PI: Dayna Giambastiani, Co-PI(s): Lisbeth Louderback, Mark Giambastiani

U of U VP Research Funding Incentive Seed Grant (budget total: **\$19,199.00**) 2020 -2021  
 “Plant Resources that Ended the Long Pause: Patterns of Dispersal From West to East Polynesia”  
 PI: Lisbeth Louderback. Co-PI(s): Adrian Bell, Bruce Pavlik

### **SELECTED CONFERENCE PRESENTATIONS/INVITED TALKS**

*Archeo-ecosystem Surveys of Puebloan Sites in Bears Ears, Southeast Utah.* Paper presented at the Great Basin Anthropological Conference, Salt Lake City, UT (second author with Bruce Pavlik and Brian Coddling), Nov. 2018.

*Revisiting the Blue Lake pollen core for vegetation change around Bonneville Estates Rockshelter.* Paper presented at the Great Basin Anthropological Conference, Salt Lake City, UT (first author with David Rhode, Kaylee Jones, and Ted Goebel), Nov. 2018.

*Preliminary Analysis of Late Pleistocene and Holocene Diatom Assemblages in the Bonneville Basin, western Utah, USA: Blue Lake warm spring.* Paper presented at the Geological Society of America, Indianapolis, IN (third author with Scott Starratt and David Rhode), Nov. 2018.

*The Archaeology of Diet: Evidence from an Ancient Rockshelter in Southern Utah.* Invited talk. Leakey Foundation Board Meeting, Salt Lake City, UT, Sept. 2018.

*The Four Corners Potato: Conserving an Ancient Food in Southern Utah.* Invited talk. Grand Staircase Escalante Partners, Kanab, UT, June 2018.

*The Four Corners Potato: Conserving an Ancient Food in Southern Utah.* Invited talk. NHMU Volunteer Education Lecture Series, Salt Lake City, UT, June 2018.

*Re-evaluating the Earliest Evidence for Wild Potato Use in South-central Chile.* Paper presented at the Society of American Archaeology (SAA), Washington DC (first author with Nicole Herzog, Ellyse Simons, Bruce Pavlik, Tom Dillehay), Apr. 2018.

*Comparing Starch Granules from Wild and Cultivated Solanum jamesii to Determine the Effects of Domestication.* Paper presented at the Society of American Archaeology (SAA), Washington DC (second author with Nicole Herzog and Bruce Pavlik), Apr. 2018.

*The Four Corners Potato: Conserving an Ancient Food in Southern Utah.* Invited talk. Utah Native Plant Society, Salt Lake City, UT, April 2018.

*The Archaeology and Conservation of the Four Corners Potato.* Paper presented at the Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region (with B.M. Pavlik), September 2017.

*The Four Corners Potato: Conserving an Ancient Food in Southern Utah.* Invited talk. Four Corners Lecture Series, Edge of Cedars State Museum, Blanding, UT (with B.M. Pavlik), August 2017.

*The Four Corners Potato: Conserving an Ancient Food in Escalante, Utah.* Invited talk/Keynote for the Escalante River Watershed Partnership, Escalante, UT (with B.M. Pavlik), August 2017.

*The Archaeology and Conservation of the Four Corners Potato.* Paper presented at the Utah Rare Plant Meeting, Salt Lake City, UT (with B.M. Pavlik), March 2017.

*Setting New Standards for Starch Grain Identification.* Poster presented at Workshop on the Analysis of Micro Particles in Archaeological Samples (WAMPAS), Max Planck Institute, Germany (with N.M. Herzog and B.M. Pavlik), Dec. 2016.

*The Archaeology and Conservation of the Four Corners Potato.* USU Museum of Anthropology Friday Lecture Series (with B.M. Pavlik). Invited Talk, Nov. 2016.

*Setting New Standards for Starch Grain Identification.* Paper presented at the Great Basin Anthropological Conference, Reno, NV. (with N.M. Herzog and B.M. Pavlik), Oct. 2016.

*Establishing an Online Ethnobotanical Database for the Northwest Great Basin.* Paper presented at the Great Basin Anthropological Conference, Reno, NV. (second author with N.M. Herzog and J. Rovenpera), Oct. 2016.

*Honoring an Interdisciplinary Giant: David B. Madsen.* Paper presented at the Great Basin Anthropological Conference, Reno, NV., Oct. 2016.

*The Archaeobotany of the Sigurd to Red Butte Transmission Line.* Poster presented at the Great Basin Anthropological Conference, Reno, NV. (with N.M. Herzog, M. Baker, K. Magargal, B.M. Pavlik), Oct. 2016.

*The Archaeology and Conservation of the Four Corners Potato.* Escalante Arts Festival Speaker Series, Escalante, Utah (co-author B. Pavlik). Invited Talk/Keynote, Sept. 2016.

<http://escalantecanyonsartfestival.org/speakers/sp...> - opens new window

*The Archaeology and Conservation of the Four Corners Potato.* Grand Staircase Escalante National Monument (GSENM) Science Forum, Kanab Utah (co-author with B. Pavlik). Invited Talk, Aug. 2016.

*Diet breadth and Resource Intensification in Relation to Environmental Change.* Paper presented at the Society of Ethnobiology, Tuscon, AZ., March, 2016.

*Frontiers of Archaeobotany in the Great Basin and northern Colorado Plateau.* Symposium organizer (with Nicole Herzog) at the Great Basin Anthropological Conference (GBAC), Boise, ID., Oct. 2014.

*The Dietary Inventory and Dietary Palette at North Creek Shelter, Utah.* Paper presented at the Great Basin Anthropological Conference (GBAC), Boise, ID (first author with Bruce M. Pavlik), Oct. 2014.

*Patterns of Chenopodium Seed Use at North Creek Shelter, Utah.* Paper presented at the Great Basin Anthropological Conference (GBAC), Boise, ID (second author with K. Worthey and D. Rhode), Oct. 2014.

*The Ecology of Diet Breadth During the Early to Middle Holocene at North Creek Shelter, Utah.* Symposium participant at the Society of American Archaeology (SAA), Austin, TX (first author with Joel Janetski and Judith Field), Apr. 2014.

*Patterns of Chenopodium spp. use at North Creek Shelter, Utah.* Poster presented at the Society of American Archaeology (SAA), Austin, TX (second author with Kayla Worthey), Apr. 2014.

*Seeds of Change: The impacts of climate change on dietary choice and human occupation patterns in Early Holocene North America.* Invited speaker: Archaeology First Thursdays, Portland State University, Oregon, May 2013.

*Yucca Roasting and Basketmaker to Post-Puebloan Occupations of Coyote Springs Valley, SE Nevada.* Poster at Society of American Archaeology (SAA), Honolulu, HI (4<sup>th</sup> author with Amy Spurling, Mary Ann Vicari, Victor Villagran), Apr. 2013.

*Seeds of Change: The impacts of climate change on dietary choice and human occupation patterns in Early Holocene North America.* Invited speaker: BEES Seminar Series, University of New South Wales, Australia, March 2013.

*30 Years On: Archaeology and Behavioral Ecology in the Great Basin.* Symposium organizer (with Michael Cannon and Jack Broughton) at the Great Basin Anthropological Conference (GBAC), Lake Tahoe, Nevada, Oct. 2012.

*The Paleoecology of Diet Breadth at North Creek Shelter: Preliminary Analyses of Archaeobotanical Remains.* Paper presented at the Great Basin Anthropological Conference (GBAC), Lake Tahoe, Nevada, Oct. 2012

*12,000 Years of Climate and Vegetation Change in the northern Uinta Mountains, western North America.* Invited speaker, paper presented at the American Quaternary Association (AMQUA), Duluth, MN (first author with D. Rhode, D.B. Madsen, and M. Metcalf), June 2012.

*Formative Period Research from the Milford Wind Corridor Project.* Paper presented at the Great Basin Anthropological Conference (GBAC), Davis, Utah (third author with Kiera Simms, Amy Spurling, and Mike Cannon), Oct. 2010.

*Development of Grinding Stone Technology in the Great Basin, western North America.* Paper presented at the 75<sup>th</sup> Meeting Society of American Archaeology (SAA), St. Louis, MO, Apr. 2009.

*Packrats, Pollen and Pine I: Holocene Vegetation History in Northwest Colorado.* Paper presented at the Rocky Mountain Anthropological Conference (RMAC) Gunnison, CO (second author with D. Rhode, D.B. Madsen, and M. Metcalf), Oct. 2009.

*Packrats, Pollen and Pine II: The Flat Tops Pollen Records and Implications for Regional Millennial-Scale Climate Cycles.* Paper presented at the Rocky Mountain Anthropological Conference (RMAC), Gunnison, CO (third author with D.B. Madsen, D. Rhode and M. Metcalf), Oct. 2009.

*Holocene Vegetation History in Northwest Colorado and Southwest Wyoming: New Results from Packrat Middens and Pollen Cores.* Poster presentation at PACLIM Conference, Asilomar, CA (with D. Rhode), March 2009.

*Into the Holocene: Archaeological Implications for Climatic and Biotic Variations.* Symposium presented at the 31<sup>st</sup> Biennial Great Basin Anthropological Conference, Portland, Oregon (Symposium organizer), Oct. 2008.

*Middle Holocene Climate Variations and its Implications for Human Response in the Great Basin.* Paper presented at the 31<sup>st</sup> Biennial Great Basin Anthropological Conference, Portland, Oregon (with D.K. Grayson), Oct. 2008.

*Climate Change and Human Adaptation in the Bonneville Basin: The Blue Lake Pollen Record and Archaeology of Bonneville Estates Rockshelter.* Paper presented at the Society for American Archaeology (SAA) 72<sup>nd</sup> Annual Meeting, Vancouver, Canada (with Ted Goebel, Kelly Graf, Bryan Hockett, and David Rhode), Apr. 2008.

*Middle Holocene Human Behavioral Responses in the Great Basin of Western North America.* Paper presented at the Society for American Archaeology (SAA) 72<sup>nd</sup> Annual Meeting, Vancouver, Canada (second author with Donald K. Grayson), Apr. 2008.

*Paleoenvironmental Research on the Piceance Basin Lateral and REX Pipeline Project: A Preliminary Report.* Paper presented at the Rocky Mountain Anthropological Conference (RMAC), Jackson Hole, Wyoming (with David Rhode, David B. Madsen, and Michael Metcalf), Oct. 2007.

*Holocene Vegetation Change and Human Plant use in the Northwest Bonneville Basin, Nevada/Utah.* Poster presented at the Society for American Archaeology (SAA) 71<sup>st</sup> Annual Meeting, Austin, Texas (with D. Rhode), Apr. 2007.

*Latest Pleistocene/ Holocene Vegetation Change at Blue Lake, western Bonneville Basin, Utah.* Presentation for Reno Quaternary Club, Reno, NV., Apr. 2006.

*Latest Pleistocene/ Holocene Vegetation Change at Blue Lake, western Bonneville Basin, Utah.* Paper presented at the 30<sup>th</sup> Biennial Great Basin Anthropological Conference (GBAC), Las Vegas, NV (with D. Rhode), Oct. 2006.

*Latest Pleistocene/ Holocene Vegetation Change at Blue Lake, western Bonneville Basin, Utah.* Poster presented at American Quaternary Association (AMQUA) Biennial Meeting, Bozeman, MT (with D. Rhode), June 2006.

*Terminal Pleistocene/Early Holocene Vegetation Change and Human Adaptation in the Bonneville Basin.* Presentation for University of Nevada, Reno Geography Lecture Series: "Arid Lands and the



People Who Use Them”, May 2006.

*Latest Pleistocene/ Holocene Vegetation Change at Blue Lake, western Bonneville Basin, Utah.* Poster presented at PACLIM (Climate Variability of the Eastern North Pacific and Western North America) Conference. Asilomar, CA (with D. Rhode), March 2006.

*Into the Archaic: Dietary Plant Use in the Prearchaic (Paleoarchaic?) in the Bonneville Basin.* Paper presented at SAA 70<sup>th</sup> Annual Meeting, Salt Lake City, Utah, (with D. Rhode), Apr. 2005.

## **TEACHING EXPERIENCE**

### Course Instructor:

Humans in the World of Plants (Undergraduate/Graduate Anth 4339/6339, Spr. 2017, Fall 2018)  
Introduction to Museum Collections (Undergraduate Anth 4850, Fall 2018)  
Paleoethnobotany (Graduate and Undergraduate level, Anth 4340/6340, Spring 2016)  
Principles of Archaeology (Undergraduate level, Arch 205, Fall 2012, Spring 2012)  
Ancient Environments Changing Cultures (Undergraduate level, Arch 340, Summer 2011)  
Field School in Alaskan Prehistory and Paleoecology (Co-Instructor, Summer 2006)

### Teaching Assistant:

Faunal Analysis (Spring 2013)  
Field School in Australian Desert Archaeology (Summer 2010)  
Principles of Archaeology (Fall 2008, Spring 2009)  
Film in Archaeology (Winter 2009)  
Plants and People (Spring 2005)  
Field School in Great Basin Prehistory and Paleoecology (Summers 2004, 2005)

## **MENTORING**

Postdoc students: Dr. Nicole Herzog (Advisor, 2015 – 2017)

Graduate students: Jory Lerback (PhD Committee member, 2018), Justin Dolinar (MA Committee Chair, 2017 – present), Kate Magargal (PhD Committee Member, 2014 – present), Elizabeth Whisenhunt (MA Committee Member 2017 – present). Ellyse Simons (MA Committee Chair, 2017 – 2018), Caroline Kisielinski (MA Committee Member 2014 – 2016).

Undergraduate students: Margaret Baker (Honor’s Thesis Advisor, 2014 – 2016), Kayla Worthey (Thesis Mentor, 2011 – 2014).

UROP students: John Myler (summer 2016)

Independent research credits: Cynthia Campbell, Thomas Kidd (fall 2016), Candace Bryan (fall 2017)

## **PROFESSIONAL & EDITORIAL SERVICE**

Editorial Board: *Utah Archaeology* (2014 – present)

Ad-hoc Reviewer (Journals): *Nature, Boreas, Plant Biosystems, Utah Archaeology, Journal of Archaeological Science, Journal of Archaeological Science: Reports, Journal of Ethnobiology, Journal of California and Great Basin Anthropology, Geological Society of America.*

Ad-hoc Reviewer (Grants): U of U VP Research Funding Incentive Seed Grant

## **OUTREACH/IN THE MEDIA**

The Four Corners Potato Project:

Press coverage: [https://storify.com/Lisa\\_M\\_Potter/utah-home-to-earliest-use-of-wild-potato-in-north](https://storify.com/Lisa_M_Potter/utah-home-to-earliest-use-of-wild-potato-in-north)

Community engagement: <https://www.youtube.com/watch?v=sMCIutu4d68&feature=youtu.be>

Exhibits: <https://nhmu.utah.edu/museum/exhibits/news-our-scientists>

Facebook Live: <https://www.facebook.com/universityofutah/videos/10154920529490636/>

Online/print media:

Potato Grower Magazine (<https://www.potatogrower.com/2019/01/the-archaeology-of-potatoes>)

Salt Lake Tribune (<https://www.sltrib.com/news/2018/10/06/ancient-potato-that-has/>)

Salt Lake Tribune (<http://www.sltrib.com/home/5454302-155/did-potato-cultivation-begin-in-utahs?fullpage=1>)

Deseret News (<http://www.deseretnews.com/article/865684157/Utah-home-to-earliest-use-of-wild-potato-in-North-America.html>)

Utah Daily Chronicle (<http://dailyutahchronicle.com/2017/07/25/researchers-discover-ancient-potato/>)

Research blogs (<https://nhmu.utah.edu/blog/2016/08/08/tiny-world-starch-grains-bigger-better>) and (<https://nhmu.utah.edu/blog/2016/08/25/good-news-about-carbs-told-archaeobotanists>)

TV/radio interviews:

KSL “Money Making Sense” with Heather Kelly (<https://www.ksl.com/?nid=1387&showid=2032>)

KSL Doug Wright show (<https://player.fm/series/the-doug-wright-show-182866/trying-the-four-corners-potato>)

Fox 13 News – Utah Researchers Re-harvest Ancient Potato

(<http://fox13now.com/2017/11/22/utah-researchers-re-harvest-ancient-potato/>)

KUER NPR Utah (<http://kuer.org/post/utah-researchers-petite-potatoes-offer-new-insights-ancient-life#stream/0>)

KSL News Radio (<https://audioboom.com/posts/6074094-wild-potatoes-have-long-history-in-utah>)

Fox 13 News - Ancient Artifacts Recovered from Restricted Military Testing Range.

(<http://fox13now.com/2016/08/28/uniquely-utah-ancie...>)

Fox 13 News - Interview about Danger Cave. (<http://fox13now.com/2015/05/19/mysterious-wendover...>)

Public talks:

NHMU Scientist in the Spotlight and Science Café Talks: <https://nhmu.utah.edu/spotlight>

Escalante Canyons Art Festival: <http://escalantecanyonsartfestival.org/speakers/speaker-series-2/>

Escalante River Watershed Partnership (ERWP): <http://escalanteriverwatershedpartnership.org/>

**CRM/TECHNICAL REPORTS**

\*indicates undergraduate, graduate, or postdoc student author

Louderback, L.A. and Tucker\*, K. (2019) *Starch Grain Analysis on Ground Stone Assemblage Sites (26WA5548 and 26WA9955) in Washoe County, Nevada*. Prepared for Far Western Anthropological Group.

Louderback, L.A., Pavlik, B.M., Coddling, B.F. (2018) *Archaeo-Ecosystems of the Four Corners: Ethnobotanical Surveys of Puebloan Sites in San Juan Co., Utah*. Prepared for BLM Utah.

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## AFFILIATIONS

American Quaternary Association (AMQUA)  
Nevada Archaeological Association (NAA)  
Utah Professional Archaeological Council (UPAC)  
Society for American Archaeology (SAA)  
Society for Ethnobiology  
Utah Native Plant Society (UNPS)  
Pacific Climate Workshop (PACLIM)