

# Raven Garvey

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## RESEARCH AREAS

archaeology, foragers, human ecology, behavioral and cultural change, stone technologies, origins and diffusions of innovations, past humans' use of challenging environments (deserts, high latitudes, mountains), quantitative methods and behavioral models, South America, Patagonia

## PROFESSIONAL POSITIONS

- 2020–present *Associate Professor / Associate Curator*, Department of Anthropology / Museum of Anthropological Archaeology, University of Michigan
- 2013–2020 *Assistant Professor / Assistant Curator*, Department of Anthropology / Museum of Anthropological Archaeology, University of Michigan
- 2012–2013 *Lecturer*, Stanford University, Ecology and Environment Program (Anthropology)
- 2008–2011 *Instructor of Record*, Department of Anthropology, University of California, Davis
- 2005–2011 *Teaching/Research Assistant*, University of California, Davis
- 1999–2005 *Contract Archaeologist*, various firms, 10 U.S. states, 3 countries

## EDUCATION

- 2012 Ph.D., Anthropology, University of California, Davis  
Dissertation: "Human behavioral responses to middle Holocene climate changes in northern Argentine Patagonia." Chair: Robert Bettinger. Committee: Bruce Winterhalder, Jelmer Eerkens, Mark Aldenderfer.
- 2007 M.A., Anthropology, University of California, Davis.
- 2004 M.A., Anthropology, University of Montana, Missoula  
Thesis: "An introduction to the concept of a 'symmetry index' for use in the assessment of biface production goals, illustrated using the lithic material from the Avon Site, Powell County Montana." Thesis Chair: Anna Prentiss.
- 2000 B.A., Anthropology & Modern Foreign Languages, James Madison University.  
Cum laude, with distinction. Honors Thesis: "¿Sos Voseante?: A study of historical and sociolinguistic aspects of the Spanish American Voseo." Thesis Chair: Laura Lewis.
- 1996 Curso de Orientación Universitaria, Instituto Bachillerato Ruíz de Alba, San Javier, Murcia, Spain.

## OTHER RELEVANT TRAINING

- 2016 Masterclass in Quantitative Methods, Max Planck Institute for the Science of Human History, Jena, Germany.
- 2016 Course in Bayesian Modeling for the Social Sciences; Summer Program in Quantitative Methods, Inter-university Consortium for Political and Social Research (ICPSR).

## MAJOR HONORS AND AWARDS

- 2023-present Michigan Society of Fellows, presidentially appointed Senior Fellow
- 2022-2024 Andrew W. Mellon Foundation, Fellow

## PUBLICATIONS

### —BOOKS—

- Garvey, R.** (under contract; 2025 release). *Evolutionary Archaeology in the 21<sup>st</sup> Century*. Cambridge University Press.
- Stewart, B., R. Beck, T. Fryer, M. Galaty, R. **Garvey**, J. O'Shea, A. Ventresca Miller (eds). 2025. *100 Years of Archaeology at the University of Michigan: Essays on the Past, Present, and Future of the Discipline*. University of Michigan Museum of Anthropological Archaeology, Anthropological Papers No. 101.
- Garvey, R.** 2021. *Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants*. University of Utah Press.
- Bettinger, R., R. **Garvey** and S. Tushingham. 2015. *Hunter-Gatherers: Archaeological and Evolutionary Theory*, 2<sup>nd</sup> edition. Springer, New York.

### —PEER-REVIEWED JOURNAL ARTICLES & BOOK CHAPTERS—

Superscript G = graduate student co-author; superscript U = undergraduate student co-author

- Rughini, A., J. Paiva, G. Romero Villanueva, M. Fernández, K. Borrazzo, R. **Garvey**, and R. Barberena. 2025. Tecnología lítica, modos e intensidad ocupacional en Patagonia Septentrional: Uso humano del sitio Cueva Yagui (Neuquén, Argentina). *Relaciones* 50:e107  
<https://doi.org/10.24215/18521479e107>
- Mukhopadhyay, A., S. Panovska, R. **Garvey**, M. Liemohn, N. Ganjushkina, A. Brenner, I. Usoskin, M. Balikhin, and D. Welling. 2025. Wandering of the auroral oval 41,000 Years Ago. *Science Advances* 11:eadz7275.
- Garvey, R.** and T. Urban. 2024. Searching for prehistoric campfires in the Patagonian Andes, southern Chile, with implications for the global-scale debate on the use of forest resources in pre-industrial societies. *Quaternary Environments and Humans* 2 (2024): 100024.  
<https://doi.org/10.1016/j.qeh.2024.100024>

- Franchetti, F., G. Neme, A. Gil, M.L. Salgán, A. Rogers, J. Davenport, R. **Garvey**, O. Trifimova, T. Ladefoged, and C. Stevenson. 2024. Obsidian hydration dating by infrared transmission spectroscopy. *Archaeometry* 2023:1-18. DOI: 10.1111/arc.12982
- Garvey**, R., L. Pratt<sup>G</sup>, and K. Poe<sup>U</sup>. 2024. Spatial and temporal trends in Peru's radiocarbon record of middle Holocene foragers. *Quaternary International*.  
<https://www.sciencedirect.com/science/article/abs/pii/S1040618223002835?via%3Dihub>
- Beggen<sup>G</sup>, I. and R. **Garvey**. 2023. Reassessing early Archaic projectile point typologies in the Carolina Piedmont through gross morphometric analysis. *Southeastern Archaeology*.  
<https://www.tandfonline.com/doi/full/10.1080/0734578X.2023.2216002>
- Garvey**, R. 2023. Human consumption of large herbivore digesta and implications for foraging theory. *Evolutionary Anthropology* 32:135-143. <https://doi.org/10.1002/evan.21979>
- Romero Villanueva, G., A. Rughini<sup>G</sup>, J. Paiva, R. **Garvey**, A. Brera<sup>G</sup>, C. Póo, K. Borrazzo, C. Frigolé, A. Gasco, C. Llano, M. V. Fernández, R. Magliolo, and R. Barberena. 2022. Historia Ocupacional y Organización Espacial Humana en el Noroeste de Patagonia: Una Discusión desde Cueva Yagui (Norte del Neuquén, Argentina). *Magallania* 50:12, pp.1 – 24.  
<https://doi.org/10.22352/MAGALLANIA202250012>
- Garvey**, R. E. Silva Carrasco, C. Roa Solís<sup>G</sup>, and C. Charó Bortolaso<sup>G</sup>. 2022. Prehistoric human occupation of southern Andean forests: Evidence from Alero Largo, Aysén, Chilean Patagonia. *Latin American Antiquity* <https://doi.org/10.1017/laq.2022.18>.
- Castro, S., L. Yebra<sup>G</sup>, V. Cortegoso, E. Marsh, A. Castillo, A. Rughini<sup>G</sup>, M.V. Fernández and R. **Garvey**. 2021. The introduction of the bow and arrow across South America's southern threshold between food-producing societies and hunter-gatherers. In J. Belardi, D. Bozzuto, P. Farnández, E. Moreno, and G. Neme (eds.), *Ancient Hunting Strategies in Southern South America*, pp. 137-158. Springer Nature, Switzerland.
- Garvey**, R. 2020. Human ecology, perceptual bias, and the co-occurrence of archaeological gaps with climate change. In *Cowboy Ecologist: Essays in Honor of Robert L. Bettinger*, edited by Terry Jones, Michael Delacorte, and Roshanne Bhaktiary, pp 1-22. Center for Archaeological Research at Davis, California.
- Morgan, C., S. Tushingham, R. **Garvey**, L. Barton, and R. Bettinger. 2020. Hunter-gatherer economies in the Old World and New World. In *Oxford Encyclopedia of Agriculture and Environment*, Volume 1, edited by Richard W. Hazlett, pp 53-83. Oxford University Press, Oxford.
- Rughini<sup>G</sup>, A, G. Romero Villanueva, G. Lucero, M. Cardillo, K. Borrazzo, M. V. Fernández, A. Castillo, M. Vitores, A. Brera<sup>G</sup>, C. Frigolé, C. Llano, R. **Garvey**, R. Barberena. 2020. Uso Humano del Espacio en un Paisaje Andino-Patagónico: Enfoque Distribucional y Biogeográfico. *Latin American Antiquity*. doi:10.1017/laq.2020.22
- Barberena, R., M. V. Fernández, A. Rughini<sup>G</sup>, K. Borrazzo, R. **Garvey**, G. Lucero, C. Della Negra, G. Romero Villanueva, V. Durán, V. Cortegoso, M. Giesso, C. Klesner, B. MacDonald, and M. Glascock. 2019. Deconstructing a complex obsidian 'source-scape': A geoarchaeological and geochemical approach in northwestern Patagonia. *Geoarchaeology* 34:30-41.
- Garvey**, R. 2018. Current and potential roles of archaeology in the development of cultural evolutionary theory. *Philosophical Transactions of the Royal Society B* 373: 20170057.  
<http://dx.doi.org/10.1098/rstb.2017.0057>

- Garvey, R.** and R. Bettinger. 2018. A regional approach to prehistoric landscape use in west-central Argentina. *Journal of Archaeological Science: Reports* 19:846-855.
- Garvey, R.** 2018. Cultural transmission and sources of diversity: A comparison of temperate maritime foragers of the Northern and Southern Hemispheres. In A. Lemke (ed.) *Foraging in the Past: Archaeological Studies in Hunter-Gatherer Diversity*, pp. 19-48. University Press of Colorado.
- Fernández, M.V., R. Barberena, M. Giesso, A. Rughini<sup>G</sup>, V. Cortegoso, M. Glascock, V. Durán, G. Romero Villanueva, K. Borazzo, G. Lucero, R. **Garvey** and B. MacDonald. 2017. Obsidian geochemistry, lithic technology, and human geography in northwestern Patagonia (Argentina). *Journal of Archaeological Science: Reports* 13:372-381.
- Barberena, R., M. Giesso, M.V. Fernández, V. Cortegoso, G. Lucero, V. Durán, R. **Garvey**, and M. Glascock. 2017. Geografía humana y tecnología en el norte de Neuquén: Proyecto de geoquímica de obsidias. In *El Poblamiento Humano del Norte del Neuquén: Estado Actual del Conocimiento y Perspectivas*, edited by F. Gordón, V. Bernal, and R. Barberena, pp. 35-52. Ediciones Aspha, Buenos Aires.
- Morgan, C., S. Tushingham, R. **Garvey**, L. Barton, and R. Bettinger. 2017. Hunter-gatherer economies in the Old World and New World. *Oxford Encyclopedia of Agriculture and Environment*. On-line edition, DOI: 10.1093/acrefore/9780199389414.013.16
- Durán, V., D. Winocur, C. Stern, R. **Garvey**, R. Barberena, J.L. Peña Monné, and G. Lucero. 2016. Volcanismo holocénico y poblamiento humano en la cordillera sur de la provincial de Mendoza (Argentina): Una perspectiva geoarqueológica. *Intersecciones volumen especial* 4:33-46.
- Garvey, R.** and F. Mena. 2016. Confronting complexities of artifact–geofact debates: Re-analysis of a coarse volcanic rock assemblage from Chilean Patagonia. *Lithic Technology* 41:114-129.
- Garvey, R.**, T. Carpenter, A. Gil, G. Neme and R. Bettinger. 2016. Archaeological age estimation based on obsidian hydration data for two northern Patagonian sources. *Chungara: Chilean Journal of Anthropology* 48:9-23.
- Garvey, R.** 2015. Probabilistic Survey and Prehistoric Patterns of Land and Resource Use in Mendoza Province, Argentina. *Intersecciones* 16:301-312.
- Salgán<sup>G</sup>, L., R. **Garvey**, G. Neme, A. Gil, M. Giesso, M. Glascock, V. Durán. 2015. Las Cargas: Characterization of a southern Andean obsidian source and its prehistoric use. *Geoarchaeology* 30:139-150.
- Garvey, R.** 2015. A model of lithic raw material procurement. In *Lithic Technological Systems and Evolutionary Theory*, edited by N. Goodale and W. Andrefsky, Jr., pp. 156-171. Cambridge University Press, Cambridge.
- Garvey, R.** and R. Bettinger. 2014. Adaptive and ecological approaches to the study of hunter-gatherers. In *Oxford Handbook of the Archaeology and Anthropology of Hunter-Gatherers*, edited by V. Cummings, P. Jordan and M. Zvelebil, pp. 69-91. Oxford University Press, Oxford.
- Smith<sup>G</sup>, L., R. **Garvey** and E. Carlson<sup>G</sup>. 2014. Hunter-gatherer subsistence variation and intensification. In *Encyclopedia of Global Archaeology*, edited by C. Smith, p. 3578-3586. Springer, New York. (RG contributed “Key Issues/Current Debates” and “Future Directions”).
- Garvey, R.** 2012. El uso de la hidratación de obsidias en el sur de Mendoza, Argentina. In *Paleoecología Humana del Sur de Mendoza*, edited by G. Neme and A. Gil, pp. 213-227. Sociedad Argentina de Antropología, Buenos Aires.

Neme, G. A. Gil, R. **Garvey**, C. Llano, A.F. Zangrando, F. Franchetti, C. deFrancesco and C. Michieli. 2011. El registro arqueológico de la Gruta de El Manzano y sus implicancias para la arqueología de nordpatagonia. *Magallanía* 39:243-265.

**Garvey**, R. 2008. A human behavioral ecological approach to a proposed middle Holocene occupational gap. *Before Farming* 2008/2, article 2.

**Garvey**, R., A.F. Gil and G.A. Neme. 2008. Middle Holocene behavioral strategies in the Americas. *Before Farming* 2008/1, article 1.

**Garvey\***, R. 2005. On the use of symmetry to assess biface production goals. *Lithic Technology* 30(2):127-144.

**Garvey\***, R. 2005. Avon's calling?: An evaluation of lithic artifacts from the Avon site (24PW340). *Archaeology in Montana* 46(1):77-96.

—INVITED COMMENTS, REVIEWS, and OTHER PUBLICATIONS—

**Garvey**, R. 2025. Introduction: Dual Inheritance and Niche Construction: Cultural Evolution Evolves. In Stewart, B., R. Beck, T. Fryer, M. Galaty, R. Garvey, J. O'Shea, A. Ventresca Miller (eds), *100 Years of Archaeology at the University of Michigan: Essays on the Past, Present, and Future of the Discipline*, pp. 143-144. University of Michigan Museum of Anthropological Archaeology, Anthropological Papers No. 101.

**Garvey**, R. 2023. Bison guts: How underappreciated foodstuffs could change our understanding of human biocultural evolution. *The European Archaeologist* [https://www.e-a-a.org/EAA/Navigation\\_Publications/TEA\\_78\\_content/Research\\_Overview.aspx#78\\_bison](https://www.e-a-a.org/EAA/Navigation_Publications/TEA_78_content/Research_Overview.aspx#78_bison)

**Garvey**, R. 2023. Review of *More Than Shelter from the Storm: Hunter-Gatherer Houses and the Built Environment*. Brian N. Andrews and Danielle A. Macdonald. *American Antiquity*.

**Garvey**, R. 2023. 'Man, the hunter'? Archaeologists' assumptions about gender roles in past humans ignore an icky but potentially crucial part of original 'paleo diet.' *The Conversation* <https://theconversation.com/man-the-hunter-archaeologists-assumptions-about-gender-roles-in-past-humans-ignore-an-icky-but-potentially-crucial-part-of-original-paleo-diet-204772>

**Garvey**, R. 2019. Comment on "Forager Mobility in Constructed Environments" by Randall Haas and Steven Kuhn. *Current Anthropology* 60:517-519.

**Garvey\***, R. 2008. Anthropological Currents: Sensory ecology: Mapping sound in archaeological contexts. *Current Anthropology* 49(6):959.

**Garvey\***, R. 2008. Anthropological Currents: Cultural markers: Cranial deformation in San Pedro, northern Chile. *Current Anthropology* 49(4):542.

**Garvey\***, R. 2008. Anthropological Currents: Geomatics: Predicting maroon refuge locations. *Current Anthropology*: 49(3):359.s

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\*published as R.G. Carper

- Garvey\***, R. 2008. Anthropological Currents: Palaeoacarology: Dung mite archives. *Current Anthropology*: 49(2):167-168.
- Garvey\***, R. 2008. Anthropological Currents: Sensory ecology: Lamplight behavior simulations. *Current Anthropology*: 49(1):4.
- Garvey\***, R. 2007. Anthropological Currents: Osteoarchaeology: An experiment with heart. *Current Anthropology*: 48(6):777.
- Garvey\***, R. 2007. Current Applications: Underwater archaeology: Exploring the submerged continental shelf. *Current Anthropology* 48(6):779.
- Garvey\***, R. 2007. Anthropological Currents: Material culture: Whitewashing: The truth? *Current Anthropology*: 48(5):632.
- Garvey\***, R. 2007. Anthropological Currents: Geomatics: Geographic information systems, local knowledge and optimal foraging in Oceania." *Current Anthropology*: 48(4):472.
- Garvey\***, R. 2007. Anthropological Currents: Archaeometrics: Isotope ratios and migration of Bronze Age people." *Current Anthropology*: 48(3):345.
- Garvey**, R. 2003. A sixth criterion: Demanding replication and visibility of sites of great antiquity may hamstring our understanding of the peopling of the Americas. *Student Journal of Anthropology* 1:1-8. The University of Montana, Missoula.

### **Technical Reports**

- Garvey**, R. 2016. Report of findings, Río Ibáñez-6 West site, Aysén, Chile. Excavation report submitted to the Consejo Nacional de Monumentos Nacionales de Chile.
- Scott, T. J. Hughey, R. **Garvey** and R. Charles. 2004. Phase I Cultural Resources Survey for the Proposed Park Glen Utility Line Substation Project in Harris County, Texas. Report submitted to Berg Oliver & Associates, Inc.
- Garvey**, R., M. Carper and B. O'Boyle. 2003. A Cultural Resource Inventory of the Grant-Kohrs Ranch National Historic Site, Volumes 1 and 2. Report submitted to the National Park Service.
- Garvey**, R. and C. Geier. 2000. An Archaeological Survey of the Harmony Hall Property, Shenandoah County, Virginia. Report submitted to Belle Grove Plantation/National Trust for Historic Preservation.

### **SELECTED RESEARCH SUPPORT** (approximate career-to-date total \$565,000)

- 2025-2027 (pending) National Science Foundation, *Senior Research Award*, "Human Behavioral Responses to Middle Holocene Climate Change in Arid Northern Argentine Patagonia" (\$164,815)
- 2024-2026 Regents of the University of Michigan, *Associate Professor Support Fund*, "Possible Piñon Grove Husbandry in Response to Middle Holocene Climate Change" (\$76,720)

- 2022-2024 The Andrew W. Mellon Foundation, *New Directions Fellowship*, “The Archaeology of Wind” (\$204,000)
- 2022-2024 National Science Foundation, *Doctoral Dissertation Improvement Grant* (Award # 2204209) “Doctoral Dissertation Improvement Grant: Early Prehistoric Human Ecology in the Peruvian Eastern Andes” (\$25,000)
- 2020 (declined due to COVID) Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), Chile, *Foreign Experts Collaboration* “Exploradores en Aisén continental: una evaluación de las discontinuidades arqueológicas en el tiempo y el espacio.” (estim. \$5000; airfare, living expenses in country)
- 2019-2020 UM Office of Research & College of LS&A, *Publication Subvention*, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants” (\$5000)
- 2018 Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), Chile, *Foreign Experts Collaboration* (estim. \$5000; airfare, living expenses in country).
- 2018 ADVANCE, University of Michigan, *Faculty Summer Writing Grant*, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants” (\$2000)
- 2014 Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina (National Council for Scientific and Technical Research), *Foreign Experts Grant*, “Hidratación de obsidias y cronología: Aporte metodológico a la arqueología de Patagonia” (estim. \$10,000; airfare, living expenses, stipend for 3 months in country)
- 2009 Fulbright Scholar Program, J. William Fulbright Foreign Scholarship Board *Fulbright, Full Grant* to Argentina, “Human behavioral responses to middle Holocene climate changes in northern Argentine Patagonia” (\$10,650)
- 2009-2011 National Science Foundation, *Doctoral Dissertation Improvement Grant* (Award #0914578) “Human behavioral responses to middle Holocene climate changes in northern Argentine Patagonia” (\$16,876)

#### **ORGANIZED CONFERENCES, SYMPOSIA, SPEAKER SERIES, and WORKSHOPS**

- 2024 50<sup>th</sup> Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory.
- 2018-19 Curators’ Colloquia, University of Michigan Museum of Anthropological Archaeology.
- 2014 “Human Decision-Making,” University of Michigan Evolution and Human Adaptation Program lecture series.
- 2014 “Confronting complexities of artifact–geofact debates: Re-analysis of a coarse volcanic rock assemblage from Chilean Patagonia” Workshop, 9<sup>th</sup> *Jornadas de Arqueología de la Patagonia*, Coyhaique, Chile.
- 2008 “Middle Holocene Behavioral Strategies in the Americas,” sponsored by the International Union for Quaternary Research, 73<sup>rd</sup> *Annual Meeting of the Society for American Archaeology*, Vancouver, British Columbia.

### INVITED MODERATOR / DISCUSSANT / WORKSHOP PARTICIPANT

- 2024 Discussant, American Foragers: Human-Environmental Interactions Across the Continents. 89<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, 17-21 April.
- 2021 Workshop participant, Risky Business: Comparative Approaches to Risk and Resilience in Arid Landscapes, sponsored by Planet Texas 2050 and the Environmental Archaeology Laboratory at the University of Texas, Austin; talk title: “Unacceptable Risk: Why Prehistoric Patagonians Didn’t Farm.”
- 2021 Workshop participant, “Creating Communities” German DAAD, Cambridge; talk title: “Community Transformation Requires a Critical Mass”
- 2021 Discussant, Teaching Integrity in Empirical Archaeology. 86th Annual Meeting of the Society for American Archaeology, virtual, April 2021.
- 2019 Moderator, “Environments and Adaptation in Ancient China: Recent Advances and Global Context,” Lieberthal-Rogel Center for Chinese Studies.
- 2016 Workshop participant, “New Perspectives in Cultural Evolution,” Stanford University / John Templeton Foundation.
- 2015 Discussant, “Materiality across disciplines: How and why are we talking about stuff?” Materiality and Archaeology Workshop, University of Michigan.

### PROFESSIONAL CONFERENCES & SPEAKING ENGAGEMENTS (*last 10 years; †by invitation*)

- † “Recalibrating ‘marginality’: Lessons from southernmost South America.” Harvard University Anthropology Lecture Series, March 2024.
- † “Human consumption of digesta and its implications for foraging theory.” University of Michigan Museum of Anthropological Archaeology Brown Bag Lecture Series, March 2024.
- † “Spatial and temporal trends in Peru’s 14C record: A case for un-muddling the middle.” With Lauren Pratt and Kaitlyn Poe. 50<sup>th</sup> Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory. Ann Arbor, Michigan, February 2024.
- † “Global auroral wandering 41,000 Years Ago.” With Agnit Mukhopadhyay, Sanja Panovska, Michael Liemohn, Natalia Ganjushkina, Michael Balikhin, Ilya Usoskin, Austin Brenner, Daniel Welling, and Alex Glocer. American Geophysical Union Annual Meeting, San Francisco, December 2023.
- † “Interpreting Coefficients of Variation in Archaeological Assessments of Cultural Transmission.” 88th Annual Meeting of the Society for American Archaeology, Portland, Oregon, April 2023.
- “Prehistoric Human Occupation of Southern Andean Forests: Evidence from Alero Largo, Aysén, Chilean Patagonia.” With Eduardo Silva, Constanza Roa, and Camila Charó, 63<sup>rd</sup> Annual Meeting of the Institute for Andean Studies, January 2023.
- † “Prehistoric Patagonia: Human Ecology and Cultural Evolution.” Evolution of Social Complexity Colloquium, Arizona State University, October 2022.

- ✦ “Rapid Auroral Wandering During the Laschamp Event.” With Agnit Mukhopadhyay, Sanja Panovska, Michael Liemohn, Natalia Ganjushkina, Michael Balikhin, Ilya Usoskin, Raven Garvey, Austin Brenner, Daniel Welling, Alex Glocer, and Katherine Garcia-Sage. American Geophysical Union Annual Meeting, Chicago, December 2022.
- ✦ “Rapid wandering of aurora 41,000 years ago.” With Agnit Mukhopadhyay, Sanja Panovska, Michael Liemohn, Natalia Ganjushkina, Austin Brenner, Michael Balikhin, Ilya Usoskin, Daniel Welling, Alex Glocer, and Katherine Garcia-Sage. Geospace Environment Modeling Workshop, Hawaii, June 2022.
- ✦ “Cumulative cultural change vs. radiocarbon gaps in Peru: A case for un-muddling the middle.” Lead author, with Lauren Pratt and Kaitlyn Poe. 87th Annual Meeting of the Society for American Archaeology, Chicago, April 2022.
- ✦ “Why (most) Patagonians Didn’t Farm.” Session titled “Cowboy Ecologist: Papers in Honor of Robert L. Bettinger. 56th Annual Meeting of the Society for California Archaeology, Visalia, California, March 2022.
- ✦ “Simulation and the Identification of Archaeologically-Relevant Units of Analysis in the Study of Prehistoric Cultural Transmission.” 13th International Symposium on Knappable Materials; virtual, October 2021.
- ✦ “Community Transformation Requires a Critical Mass: Farming in Prehistoric Patagonia.” DAAD Workshop, Deutscher Akademischer Austauschdienst / German Academic Exchange. University of Cambridge, virtual, May 2021.  
  
“Prehistoric Use of an Obsidian-Rich Ignimbrite Deposit, Northwestern Patagonia.” Lead author, with Ramiro Barberena, Agustina Rughini, M. Victoria Fernández, Guadalupe Romero Villanueva, and Brandi MacDonald. International Obsidian Conference; virtual, May 2021.
- ✦ “Unacceptable Risk: Why Prehistoric Patagonians Didn’t Farm.” Session titled “Risk and Resilience: Comparative Approaches to Risk and Resilience in Arid Landscapes.” 86th Annual Meeting of the Society for American Archaeology, virtual, April 2021.
- ✦ “La Hidratación de Obsidias: Ventajas, Desafíos, y Aplicaciones en el Norte de Neuquén. (In Spanish.) *Annual meeting, Laboratorio de Paleoecología Humana*, Universidad Nacional de Cuyo. Mendoza, Argentina, virtual, September 2020.
- ✦ “Foragers in a World of Farmers.” Rappaport Lecture Series titled, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants.” University of Michigan, December 2019.
- ✦ “The Mysterious Middle Holocene.” Rappaport Lecture Series titled, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants.” University of Michigan, November 2019.
- ✦ “Explorers of an Empty Landscape.” Rappaport Lecture Series titled, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants.” University of Michigan, October 2019.
- ✦ “Patagonian Puzzles: Giants, Cultural Laggards, and other Mythical Creatures.” Rappaport Lecture Series titled, “Patagonian Prehistory: Human Ecology and Cultural Evolution in the Land of Giants.” University of Michigan, September 2019.
- ✦ “Cultural Transmission, Simulation, and the Identification of Archaeologically-Relevant Units of Analysis.” Symposium (poster) titled “Novel Statistical Techniques in Archaeology,” hosted by the

Quantitative Methods and Statistical Computing in Archaeology Group, 84<sup>th</sup> Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 2019.

“The Evolution of Prehistoric Technology.” With Shoshanah Machlay. Poster, Undergraduate Research Opportunity Program’s Annual Research Symposium. University of Michigan, April 2019.

✦ “Cultural transmission and artifact variation in late prehistoric New Mexico.” Symposium: Papers in Honor of R.L. Bettinger. 35<sup>th</sup> *Great Basin Anthropological Conference*, Reno, NV, October 2016.

“Cueva Yagui (norte del Neuquén): Evidencias arqueológicas e implicancias regionales para Patagonia septentrioinal.” (In Spanish.) With Guadalupe Romero, Ramiro Barberena, Agustina Rughini, Luis Acuña, and Juan Pablo Aguilar. *XIX Congreso Nacional de Arqueología Argentina*, Tucumán, Argentina, August 2016.

✦ “Archaeological patterns of within- versus extra-household cultural learning.” *New Perspectives in Cultural Evolution Workshop*, Stanford University; organized by Marcus Feldman, Nicole Crianza, and Oren Kolodney and funded by John Templeton Foundation, July 2016.

“Cultural transmission and artifact variability.” With Hunter Muirhead. Poster, Undergraduate Research Opportunity Program’s Annual Research Symposium. University of Michigan, July 2016.

✦ “Archaeological patterns of within- versus extra-household cultural learning: A case study from southeastern New Mexico.” 4<sup>th</sup> *Northwest Evolutionary Ecology and Human Behavior Conference*, Boise, Idaho, April 2016.

“Cultural transmission and artifact variation in late prehistoric New Mexico.” 81<sup>st</sup> *Annual Meeting of the Society for American Archaeology*, Orlando, Florida, April 2016.

✦ “Cultural transmission and sources of diversity: A comparison of temperate maritime foragers of the Northern and Southern Hemispheres.” University of Michigan Museum of Anthropological Archaeology Brown Bag Lecture Series, January 216.

✦ “Boundary effects on cultural transmission and artifact variation.” 11<sup>th</sup> *Conference on Hunting and Gathering Societies*. Vienna, Austria, September 2015.

✦ “Arqueología y estudios de obsidianas en Puerta de Barrancas, sur de Mendoza.” (In Spanish.) 1<sup>st</sup> *annual meeting, Laboratorio de Paleoecología Humana*. Mendoza, Argentina, June 2015.

✦ “Cultural transmission and diversity: Hunter-gatherers of the Arctic and Subarctic.” With Robert Bettinger. 80<sup>th</sup> *Annual Meeting of the Society for American Archaeology*, San Francisco, California, April 2015.

✦ “Cultural transmission and artifact variation: Can ‘functional’ artifacts convey social information?” University of Michigan Museum of Anthropological Archaeology Brown Bag Lecture Series, January 2015.

“La hidratación de obsidianas: ventajas, inconvenientes y aplicaciones en la Patagonia.” (In Spanish.) 9<sup>th</sup> *Jornadas de Arqueología de la Patagonia*, Coyhaique, Chile, October 2014.

“Cultural transmission and artifact variability.” With Laura Kochlefl and Edward Potchen. Poster presented at the Undergraduate Research Opportunity Program’s Annual Research Symposium. University of Michigan, April 2014.

✦ “Economics of stone use in Patagonia: Theory, method and practice.” University of Michigan Museum of Anthropological Archaeology Brown Bag Lecture Series, January 2014.

[For information regarding talks given between 2003 and 2013 (N = 18), please contact R. Garvey.]

## INVITED PUBLIC LECTURES

- 2018 “Projectile Points from the U.S. Southwest: Who Learns from Whom, and Why Does it Matter?” Michigan Archaeological Society.
- 2018 “Unlocking Mysteries of the Human Past.” *39<sup>th</sup> Annual Regional Gathering*, MENSA, Detroit, Michigan.
- 2014 “Human behavioral adaptations to environmental extremes: Evidence from Patagonia.” Michigan Archaeological Society. November 2014.

## TEACHING

### University of Michigan (current rotating schedule)

- Undergraduate Research Opportunity Program (annually)
- Anthrac 282: *Doing Archaeology: Essential Theory and Methods* (annually)
- Anthrac 296: *Ancient Technologies: Production, Use, and Evolution*
- Anthrac 296/482: *Human Ecology and Prehistory* (undergraduate / graduate lecture course)
- Anthrac 296/Anthrac 683 /Anthrbio 369 / Environ 302: *Human Adaptations to Climate and Climate Change*
- Anthrac 499: *Undergraduate Independent Reading and Research*
- Anthrac 581: *Archaeology I* (graduate core course)
- Anthrac 683: *Human Ecology and Prehistory* (graduate seminar)
- Anthrac / Anthrbio / Anthrcul 956 *Responsible Conduct of Research and Scholarship*
- Anthrac 990: *Dissertation Pre-Candidate Independent Study*
- Anthrac 995: *Dissertation Candidate Independent Study*

### Stanford University

- 2013 *Tragedy of the Commons: The Human Ecology of Communal Resources* (graduate/upper division)
- 2012 *Human Ecology: Adaptations to Climate and Climate Change* (graduate/upper division)

### University of California, Davis

- 2011 *New World Prehistory: The First Arrivals*
- 2011 *Introduction to Archaeology*
- 2011 *Archaeological Theory and Method*
- 2010 *Ancient Crops and People*
- 2008 *Introduction to Archaeology*
- 2006- (as Teaching Assistant) *Andean Prehistory* (1 term), *World Prehistory* (1 term), *New*

- 2010 *World Prehistory: The First Arrivals* (1 term), *Kinship and Social Organization* (1 term), *Human Osteology* (1 term), *Introduction to Archaeology* (4 terms), *Human Evolutionary Biology* (1 term)
- 2006 (as Teaching Assistant) *Archaeological Field School* (Owens Valley, California)

### **Other institutions**

- 2010 (Co-instructor with V. Cortegoso) *Ecología Evolutiva y Economía en el Uso Prehistórico de Recursos Líticos* (Economic and Evolutionary Aspects of Prehistoric Lithic Technology). Universidad Nacional del Centro de la Provincia Buenos Aires, Argentina. Thirty-hour graduate level course; instruction in Spanish.
- 2005 (Guest Lecturer) *Archaeology of the Pacific Northwest*. University of Montana.
- 2000 (Assistant to the Archaeologist) *Archaeological Field School*. James Madison University.
- 1999-2000 (Assistant to the Professor) *Introduction to Archaeology*. James Madison University.
- 1999 (Assistant to the Archaeologist) *Archaeological Field School*. James Madison University.

### **STUDENT ADVISING**

#### **Graduate Students Advised** (\*current advisees)

- Anna Antoniou (chair, 2013-2018)  
\*Timilehin Ayelagbe (chair, 2023-present)  
\*Ian Beggen (chair, 2019-present)  
\*Laura Bossio (chair, 2020-present)  
\*Jhon Cruz Quiñones (co-chair, 2021-present)  
\*Stephanie Danner (research advisor, UM College of Engineering M.A. candidate, 2024-present)  
Brianna Doering (chair, 2013-2018)  
\*Angie Feak (chair, 2022-present)  
Kara Larson (committee member, 2024-present)  
\*James Munene (co-chair, 2020-present)  
Kyra Pazan (committee member, 2018-2022)  
Lauren Pratt (chair, 2016-2024)  
Megan Savoy (committee member, 2024-present)  
\*Ally Sabo (chair, 2024-present)  
Lucía Yebra (committee member, Universidad Nacional de Cuyo, Argentina, 2015-2016)

#### **Undergraduate Students Advised** (\*current advisees)

- |                               |                               |
|-------------------------------|-------------------------------|
| Jenna Belt (2021-2022)        | Danya Pollack (2020-2021)     |
| Lauren Kochlefl (2013-2014)   | Edward Potchen (2013-2014)    |
| Shoshanah Machlay (2018-2019) | Abigail Rieck (2022-2023)     |
| Hunter Muirhead (2016-2019)   | *Carly Salazar (2022-present) |
| Kaitlyn Poe (2020-2023)       | Tyler Winkels (2014-2015)     |

### **EDITORIAL ROLES**

*Proceedings of the National Academy of Sciences* (guest academic editor, 5/22)  
*PLOS ONE*, Editorial Board member (2021-present)  
*PLOS ONE*, guest academic editor (ad hoc, 3/21-07/21)  
*Frontiers in Nutrition*, guest editor of special issue (11/24-present)  
*Humanities and Social Sciences Communications*, Springer Nature, Editorial Board member (2021-present)  
*Current Anthropology*, Editorial Associate (2007-2008)  
*Center for Archaeological Research at Davis* (CARD, a non-profit publisher of archaeological monographs), President (2010-2012)

#### **JOURNALS REFEREED**

<i>American Antiquity</i>	<i>Journal of Archaeological Research</i>
<i>American Journal of Biological Anthropology</i>	<i>Journal of Archaeological Science</i>
<i>Archaeological and Anthropological Sciences</i>	<i>Journal of Archaeological Science: Reports</i>
<i>Archaeological Research in Asia</i>	<i>Journal of Field Archaeology</i>
<i>Arqueología</i> (Argentina)	<i>Journal of Island and Coastal Archaeology</i>
<i>Chungara</i> (Chile)	<i>Land</i>
<i>Current Anthropology</i>	<i>Latin American Antiquity</i>
<i>Ethnoarchaeology</i>	<i>Lithic Technology</i>
<i>Ethnobiology Letters</i>	<i>PaleoAmerica</i> (formerly <i>Current Research in the Pleistocene</i> )
<i>Evolutionary Anthropology</i>	<i>PLOS ONE</i>
<i>Frontiers in Evolutionary Archaeology</i>	<i>Population Ecology</i>
<i>Frontiers in Nutrition</i>	<i>Proceedings of the National Academy of Sciences</i>
<i>Intersecciones</i> (Argentina)	<i>Quaternary International</i>
<i>Journal of Anthropological Archaeology</i>	<i>Scientific Reports</i> (a <i>Nature</i> publication)

#### **NATIONAL / INTERNATIONAL GRANTS REFEREED**

American Philosophical Society  
Austrian Science Fund  
European Science Foundation  
Fulbright Scholar Program  
Leakey Foundation  
Ministerio de Ciencia, Tecnología, Conocimiento e Innovación (Chilean Government)  
National Geographic Society  
National Science Foundation

#### **BOOK MANUSCRIPTS REVIEWED**

2025 math thing

2024 T. Douglas Price, *Long Time Ago: An Archaeological Primer*. Eliot Werner Books.

2022 Gustavo Politis and Luis Borrero, *The Archaeology of the Pampas and Patagonia*, Cambridge World Archaeology.

2014 *Revealing Archaeology*, digital textbook. Thinking Strings Press.

#### **BOOK MANUSCRIPTS EDITED**

2014 *Taphonomic Approaches to the Archaeological Record*, Karen Borrazzo (ed.), Consejo Nacional de Investigaciones Cientificas y Técnicas. English language editor.

**AFFILIATIONS AND PROFESSIONAL MEMBERSHIPS**

Center for Latin American and Caribbean Studies, University of Michigan (LACS)

Centro de Investigaciones en Ecosistemas de la Patagonia (CIEP)

Coalition for Archaeological Synthesis (CfAS)

Cultural Evolution Society (CES)

Evolution and Human Adaptation Program, University of Michigan (EHAP)

Institute for Social Research, University of Michigan (ISR)

International Association for Obsidian Studies (IAOS)

International Society for Hunter-Gatherer Research (ISHGR)

Research Center for Group Dynamics, University of Michigan (RCGD)

Society for American Archaeology (SAA)