

# Jacob Freeman

## Curriculum Vitae

Utah State University  
Anthropology Program  
730 Old Main  
Logan, UT 84322  
✉ jacob.freeman@usu.edu



### Education

- 2009–2014 **PhD in Anthropology**, Arizona State University, Tempe, AZ.  
2005–2007 **Masters of Arts in Anthropology**, The University of Texas at San Antonio, San Antonio, TX.  
2000–2004 **Bachelor of Science in Sociology and Anthropology**, Truman State University, Kirksville, MO.

### Academic Positions

- 2020-Current **Program Director**, Utah State University, Logan, UT.  
2020-Current **Associate Professor**, Utah State University, Logan, UT.  
2015-2020 **Assistant Professor**, Utah State University, Logan, UT.  
2014-2015 **Interdisciplinary Post-Doctoral Fellow**, The University of Texas at San Antonio, San Antonio, TX.  
2008 **Full Time Instructor**, Truman State University, Kirksville, MO.

### Publications \*denotes student authors

#### Works in Preparation

- 2025 **Freeman, J.**, The Innovative Species: How cultural evolution drives long-term population expansions and recessions, *Monograph in prep.*
- 2024 Baggio, J.A., **J. Freeman**, K. Larsen, An embedded model of Adaptive Capacity: How diversity, stress arousal, cognitive abilities and networks affect resource sustainability, *Submitted to Ecology and Society.*  
Under review
- 2024 \*Bird, D., R.K., Bocinsky, **J. Freeman**, T.A. Kohler, The Agricultural Demographic Transitions in the Prehispanic US Southwest and Midwest, and Their Shared Outcome, *Submitted to American Antiquity.*  
Revision Requested

2024 **Freeman, J.**, \*A. Ahamann, A deep-time comparison using stable isotope data of gender-based protein consumption, *in prep for the Journal of Archaeological Science*.

#### Published Peer Reviewed Journal Articles

2024 **Freeman, J.**, A. F. Gil, E. A. Peralta, G. Neme, A model of long-term population growth with an application to Central West Argentina, *PloS One*, 19(8):e0307703.

<https://doi.org/10.1371/journal.pone.0307703>

2024 **Freeman, J.**, E. Robinson, D. Bird, R. P. Mauldin, R.J. Hard, J.M. Anderies, The long-term expansion and recession of human population, *Proceedings of the National Academy of Sciences*, 121:e2312207121.

DOI: <https://doi.org/10.1073/pnas.2312207121>

2024 Lima, M., E. M. Gayo, S.A. Estay\*, A. Gurruchaga\*, E Robinson **J. Freeman**, C. Latorre, D. Bird, Positive feedbacks in deep-time transitions of human populations, *Philosophical Transactions of the Royal Society: Biological Sciences*, 379: 20220256.

<https://doi.org/10.1098/rstb.2022.0256>

2024 \*Rhodes, S., Crabtree, S., **J. Freeman**, An agent-based model of hierarchical information-sharing organizations in asynchronous environments, *The Journal of Artificial Societies and Social Simulation*, 27:2.

<https://www.jasss.org/27/2/2.html>

2024 **Freeman, J.**, R.P. Mauldin, M. Whisenhunt\*, R.J. Hard, K. Solis\*, J. M. Anderies, Hunter-gatherer Population Expansion and Intensification: Malthusian and Boserupian Dynamics, *The Journal of Archaeological Method and Theory*, 31 (3): 761-781.

<https://doi.org/10.1007/s10816-023-09617-6>

2023 **Freeman, J.**, R.P. Mauldin, M. Whisenhunt\*, R.J. Hard, J. M. Anderies, Repeated long-term population growth overshoots and recessions among hunter-gatherers, *The Holocene*, 33:1163–1175.

<https://doi.org/10.1177/09596836231183072>

2023 **Freeman, J.**, J.A. Baggio, L. Miranda\*, J. M. Anderies, Infrastructure and the Energy Use of Human Polities, *Cross-Cultural Research*, 57:294-322..

<https://doi.org/10.1177/10693971221149779>

2023 Perralta, E. A., **J. Freeman**, A. Gil, Population expansion and intensification from a Malthus-Boserup perspective: A multiproxy approach in Central Western Argentina, *Quaternary International*, in press.

10.1016/j.quaint.2023.08.013

- 2022 Baggio, J. A. **J. Freeman**, J.M. Anderies, T.R. Coyle, Harnessing the benefits of diversity to solve 21st Century collective governance challenges, *Plos One*, 17(8): e0263399.  
<https://doi.org/10.1371/journal.pone.0263399>
- 2022 Peralta, E. A., J. M. López, **J. Freeman**, C. Abbona, F. Franchetti, M. J. Ots, P. Cahiza, G. A. Neme, A. F. Gil, Past maize consumption correlates with population change in central western Argentina, *Journal of Anthropological Archaeology*, 68:101457.  
<https://doi.org/10.1016/j.jaa.2022.101457>
- 2022 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**, p3k14c—A synthetic global database of archaeological radiocarbon dates, *Scientific Data*, 9(27):1-19.
- 2022 Kelly, Robert L., M. E. Mackie, E. Robinson, J. Meyer, M. Berry, M. Boulanger, B. F. Coddling, **J. Freeman**, C. J. Garland, J. Gingerich, and others, A new radiocarbon database for the lower 48 states, *American Antiquity*, 87(3): 581-590.  
<https://doi.org/10.1017/aaq.2021.157>
- 2022 Silva, Fabio, F. Coward, K. Davies, S. Elliott, E. Jenkins, A. C. Newton, P. Riris, M. Vander Linden, J. Bates, E. Cantarello, D. A. Contreras, S. A. Crabtree, E. R. Crema, M. Edwards, T. Filatova, B. Fitzhugh, H. Fluck, **J. Freeman**, and others, Developing Transdisciplinary Approaches to Sustainability Challenges: The need to model socio-environmental systems in the longue durée, *Sustainability*, 14: 1023.  
<https://doi.org/10.3390/su141610234>
- 2021 **Freeman, J.** J.M. Anderies, N. G. Beckman, E. Robinson, J. A. Baggio, B. Bird\*, C. Nicholson, J.B. Finley, J. M. Capriles, A.F. Gil, D. Byers, E. Gayo, and C. Latorre, Landscape engineering impacts the long-term stability of agricultural populations, *Human Ecology: An interdisciplinary journal*, 49(4), 369-382.
- 2021 **Freeman, J.**, R.J. Hard, R. P. Mauldin, and J.M. Anderies, Radiocarbon data may support a Malthus–Boserup model of population growth, *Journal of Anthropological Archaeology*, 63:101321.  
<https://doi.org/10.1016/j.jaa.2021.101321>
- 2021 Robinson, E., R.K. Bocinsky, \*D. Bird, **J. Freeman** and R.L. Kelly, Dendrochronological dates confirm a Late Prehistoric population decline in the American Southwest derived from radiocarbon dates, *Philosophical Transactions of the Royal Society: B*, 376:20190718.  
<http://dx.doi.org/10.1098/rstb.2019.0718>

- 2020 **Freeman, J.** E. Robinson, \*D. Bird, N. Beckman, J.A. Baggio and J.M. Anderies, The Global Ecology of Human Population Density and Interpreting Changes in Paleo-Population Density, *Journal of Archaeological Science*, 120: 105168.  
<https://doi.org/10.1016/j.jas.2020.105168>
- 2020 **Freeman, J.** J.A., Baggio and T. Coyle, T, Social and general intelligence improve collective action in a common pool resource system, *Proceedings of the National Academy of Sciences*, 117:7712–7718.  
 DOI: [www.pnas.org/cgi/doi/10.1073/pnas.1915824117](http://www.pnas.org/cgi/doi/10.1073/pnas.1915824117)
- 2020 \*Miranda, L., **J. Freeman.**, The two types of society: computationally revealing recurrent social formations and their evolutionary trajectories, *Plos One*, 15: e0232609.  
<https://doi.org/10.1371/journal.pone.0232609>
- 2020 \*Bird, D., **J. Freeman**, E. Robinson, \*G. Maughan, J.B. Finley, P. M. Lambert, and R.L. Kelly , A first empirical analysis of population stability in North America using radiocarbon records, *The Holocene*, 30:1345–1359.  
 DOI: [10.1177/0959683620919975](https://doi.org/10.1177/0959683620919975)
- 2020 Strawhacker, C., G. Snitker, M. A. Peeples, A.P. Kinzig, K. W. Kintigh, K. Bocinsky, B. Butterfield, **J. Freeman**, S. Oas, M. C. Nelson, J. A. Sandor, K. A. Spielmann, A landscape perspective on climate-driven risks to food security: Exploring the relationship between climate and social transformations in the prehispanic US Southwest, *American Antiquity*, 85:427-451.  
<https://doi.org/10.1017/aaq.2020.35>
- 2019 **Freeman, J.**, J.M. Anderies, R.P. Mauldin and R.J. Hard, Should I stay or should I go? The emergence of partitioned land use among human foragers., *PLoS One*, 14(7): e0218440.  
<https://doi.org/10.1371/journal.pone.0218440>
- 2019 **Freeman, J.** and J. A. Baggio, The effect of ownership on ecosystem management among human foragers., *Quaternary International*, 518:11-20.  
<https://doi.org/10.1016/j.quaint.2017.12.004>
- 2019 Baggio, J.A., **J. Freeman**, T. Coyle, \*T. Naguyen, \*S. Nabity, \*K. Elpers, H.F. Dengah, and D. Pillow, The importance of cognitive diversity for sustaining the commons, *Nature Communications*, 10:875.  
<https://doi.org/10.1038/s41467-019-08549-8>

- 2018 **Freeman, J.**, J. A. Baggio, E. Robinson, D. A. Byers, E. Gayo, J. B. Finley, J. A. Meyer, R. L. Kelly, and J. M. Anderies, Synchronization of energy consumption by human societies throughout the Holocene., *Proceedings of the National Academy of Sciences*, 115:9962–9967.  
<https://doi.org/10.1073/pnas.1802859115>
- 2018 **Freeman, J.**, David A. Byers, Erick Robinson and Robert L. Kelly, Culture process and the interpretation of radiocarbon data., *Radiocarbon*, 60: 453-467.  
<https://doi.org/10.1017/RDC.2017.124>
- 2018 **Freeman, J.**, \*Jonathan Keith, \*Andrew Owens and \*Max Roberts, The effects of revenue and social capital on collective governance: Implications for political complexity., *Cross-Cultural Research*, 52:351–380.  
<https://doi.org/10.1177/1069397117732278>
- 2018 Coyle, T., Rinderman, H., \*Hancock, T., and **Freeman, J.**, Nonlinear Effects of Cognitive Ability on Economic Productivity: A Country Level Analysis., *Journal of Individual Differences*, 39:39–47.
- 2018 Coyle, T., \*K.E. Elpers, \*M.G. Gonzalez, **J. Freeman**, and J.A. Baggio, General intelligence (g), ACT scores, and theory of mind: (ACT)g predicts limited variance among theory of mind tests., *Intelligence*, 71:85–91.  
<https://doi.org/10.1016/j.intell.2018.10.006>
- 2017 **Freeman, J.**, R. J. Hard and R. P. Mauldin, A theory of regime change on the Texas Coastal Plain., *Quaternary International*, 446c:83-94.  
<http://dx.doi.org/10.1016/j.quaint.2016.12.029>
- 2016 **Freeman, J.**, The socioecology of territory size and a “work-around” hypothesis for the adoption of farming., *PLoS ONE*.  
 DOI:[dx.doi.org/10.1371/journal.pone.0158743](http://dx.doi.org/10.1371/journal.pone.0158743)
- 2016 **Freeman, J.**, T. Coyle, and J. A. Baggio, The Functional Intelligences Proposition., *Personality and Individual Differences*, 99:46–55.  
 DOI: <http://dx.doi.org/10.1016/j.paid.2016.04.057>
- 2016 Hegmon, M., **J. Freeman** K. W. Kintigh, M.C. Nelson, S. Oas, M. A. Peeples, and A. Torvinen, Marking and making difference: Representational diversity in the US Southwest., *American Antiquity*, 81:253–272.
- 2015 **Freeman, J.**, M. Peeples, and J. M. Anderies, Toward a theory of non-linear transitions from foraging to farming., *Journal of Anthropological Archaeology*, 40:109–122.  
 DOI: [10.1016/j.jaa.2015.07.001](https://doi.org/10.1016/j.jaa.2015.07.001)
- 2015 **Freeman, J.** and J. M. Anderies, The socioecology of hunter-gatherer territory size., *Journal of Anthropological Archaeology*, 39:110–123.  
 DOI: [10.1016/j.jaa.2015.03.002](https://doi.org/10.1016/j.jaa.2015.03.002)

- 2015 **Freeman, J.** and J. M. Anderies, A comparative ethnoarchaeological analysis of corporate territorial ownership., *Journal of Archaeological Science*, 54: 135-147.  
DOI:10.1016/j.jas.2014.11.037
- 2015 Isaac I.I. Ullah, I. Kuijt, and **J. Freeman**, Toward a theory of punctuated subsistence change., *Proceedings of the National Academy of Sciences*, 112:9579-9584.  
DOI: 10.1073/pnas.1503628112
- 2015 Johnson, A., A. Gil, G. Neme, and **J. Freeman**, Hierarchical method using ethnographic data sets to guide archaeological research: Testing models of plant intensification and maize use in Central Western Argentina., *Journal of Anthropological Archaeology*, 38:52-58.
- 2014 **Freeman, J.**, J. M. Anderies, A. Torvinen and B. A. Nelson, Crop specialization, exchange and robustness in a semi-arid environment, *Human Ecology*, 42(2):297–310.  
DOI:10.1007/s10745-013-9638-0
- 2012a **Freeman, J.**, Alternative adaptive regimes for integrating foraging and farming activities., *Journal of Archaeological Science*, 39(9): 3008–3017.  
DOI:10.1016/j.jas.2012.04.039
- 2012b **Freeman, J.**, Crop diversity in human subsistence agricultural systems: A test of macroecological and economic determinants., *Journal of Global Ecology and Biogeography*, 21: 428–440.  
DOI:10.1111/j.1466-8238.2011.00687.x
- 2012 **Freeman, J.**, and J. M. Anderies, Intensification, tipping points and social change in a coupled forager-natural resource system., *Human Nature*, 23: 419–446.  
DOI:10.1007/s12110-012-9154-8

#### Published Peer Reviewed Book Chapters

- 2024 E. Robinson and **J. Freeman**, , Holocene Human Ecology and Adaptation to Millennial- and Centennial-Scale Climate Change: A Case Study from the North Sea Basin., In *Cultural Landscapes and Long-Term Human Ecology*, edited by Erick Robinson, Susan K. Harris, and Brian F. Coddling, pp. 185–213, Springer Nature, Cham, Switzerland.
- 2017 **Freeman, J.**, A. Torvinen, B. A. Nelson and J. M. Anderies, Diversity, reciprocity and the emergence of equity-inequity tradeoffs., In *The Give and Take of Sustainability: Archaeological and Anthropological Perspectives on Tradeoffs*, edited by Michelle Hegmon, pp. 26–51, Cambridge University Press, Cambridge.

- 2014 Hard, R. J., W. L. Merrill, A. C. MacWilliams, J. R. Roney, **J. Freeman** and K. R. Adams, Rainfed farming and settlement aggregation: Reflections from Chihuahua, Mexico., In *Drylands Agriculture*, edited by S. Ingram and R. C. Hunt, pp. 237–272, University of Arizona Press, Tucson, AZ.
- 2009 Johnson, A., A. Gil, G. Neme, and **J. Freeman**, Maíces e intensificación: Explorando el uso de los marcos de referencia., In *Arqueología y Evolución*, edited by G. Lopez and M. Cardillo, pp. 23–48, Sb Press, Buenos Aires, Argentina.

### Reviews and Commentaries

- 2019 **Freeman, J.**, Commentary on: “Comparative Study of Pastoral Property Regimes in Africa offers no support for Economic Defensibility Model by Mark Moritz and colleagues , *Current Anthropology*, 60: 623-624..
- 2019 **Freeman, J.**, A Review of: The Archaic Southwest: Foragers in an Arid Land. Bradly J. Vierra, ed. Salt Lake City: University of Utah Press, 2018 480 pp., \$ 60.00, cloth. ISBN9781607815808. , *Journal of Anthropological Research*, 75:586-588.

## ————— Funding & Competitive Research Awards

### Grants

- 2024 **Role: PI.**, *Collaborative DRMS Award: Group cognition, stress arousal, and environment feedbacks in decision making and adaptation under uncertainty*, NSF, Decision and Risk Management Science (DRMS), Expected funding \$638,000.
- 2021 **Role: PI.**, *Past Global Changes (PAGES) sponsored Scientific Working Group: PEOPLE 3000 Phase II*, <http://www.pastglobalchanges.org/ini/wg/people-3000/intro>.
- 2017 **Role: PI.**, *Past Global Changes (PAGES) sponsored Scientific Working Group: PEOPLE 3000: Phase I*, <http://www.pastglobalchanges.org/ini/wg/people-3000/intro>.
- 2016 **Role: PI.**, *General Intelligence, Social Intelligence, and Robust Cooperation in Social-Ecological Systems*, NSF, IBSS-L, \$465,892.
- 2015 **Role: Co-PI.**, *The Evolution of Social Networks and the Robustness of Human Societies to Population Growth and Climate Change: A deep time perspective*, NSF, IBSS-L, \$998,350.
- 2015 **Role: Co-PI.**, *Understanding Long Term Relationships Between Environmental Change, Human Resilience And Territoriality*, NSF, BCS-1535841 Archaeology Program: \$216,000.

## Workshop Awards

- 2018 **Role: Co-PI**, *The Coevolution of Climate, Population and Food Systems II*, Past Global Changes (PAGES) Working Group Workshop Grant, \$9,000.
- 2016 **Role: PI**, *The Coevolution of Climate, Population and Food Systems*, Past Global Changes (PAGES) Open Workshop Grant, \$6,500.

## ■ **Seminars & Presentations**

### Invited Lectures

- 2019 Penn State Anthropology Colloquium. “The robustness of socio-environmental systems to population growth and climate change.”
- 2019 University of Indiana, School of Public and Environmental Affairs. “The robustness of socio-environmental systems to population growth and climate change.”
- 2017 The Ohio State University, Department of Anthropology. “The resilience of social-ecological systems to population growth and climate change.”
- 2014 Utah State University, Department of Sociology, Social Work and Anthropology. “The Emergence of Territoriality, Networks, and Collapse in a Prehistoric Hunter-Gatherer System.”
- 2014 Boise State University University, Department of Anthropology. “Feedbacks, Critical Transitions and Social Change in Forager-Resource Systems.”

### Advanced Seminars

- 2024 Stressed People in Stressed Environments: Navigating sustainability pathways Workshop (Scheduled for October 2024, Utah State University)
- 2021 The Coevolution of Climate, Population and Food Systems IV Workshop (November 2021, Arizona State University)
- 2020 Institute for the Modelling of Socio-Environmental Transitions: Brief: Knowledge gaps in long-term human ecodynamics (14-15 Sep 2020, Bournemouth University)
- 2019 The Coevolution of Climate, Population and Food Systems III Workshop, Vernal Utah, May 20-25
- 2018 The Coevolution of Climate, Population and Food Systems II Workshop, San Rafael, Argentina, May 20-25
- 2016 The Coevolution of Climate, Population and Food Systems Workshop, Utah State University, Logan, UT, November 4-9
- 2016 Alan Alda Center for Communicating Science Workshop, Utah State University, Logan, UT, October 3-4.



- 2014 The Give and Take of Sustainability: Anthropological Perspectives on Tradeoffs, part of the New Directions in Sustainability and Society series co-sponsored by the Amerind Foundation and the Global Institute of Sustainability (ASU), Dragoon, AZ, April 12-16.
- 2011 Drylands Agriculture: What We Need to Know, Ft. Burgwin Research Center, Southern Methodist University, Taos, New Mexico. October 5-9.
- Conference Presentations \*denotes student authors
- 2024 Understanding the emergence of alternative social-ecological regimes of food production, World Neolithic Congress; November 4 - 8, 2024 Sanliurfa, Türkiye
- 2024 A multi-scalar study of population growth dynamics in small- scale societies, World Neolithic Congress; November 4 - 8, 2024 Sanliurfa, Türkiye
- 2024 Responses of socio-ecological systems to climate change: A comparative perspective for the subtropical Andes during the Holocene (Aldofo F. Gil first author), Climate of the past and societal responses to environmental changes; 5 – 8 June 2024, University of Bern, UniS, Room 003, Switzerland
- 2024 Responses of socio-ecological systems to climate change: A comparative perspective for the subtropical Andes during the Holocene (Aldofo F. Gil first author), Climate of the past and societal responses to environmental changes; 5 – 8 June 2024, University of Bern, UniS, Room 003, Switzerland
- 2024 Does Political Organization Impact the Severity of Population Recession? (\*Matthew Jensen first author), Society for American Archaeology Meeting, New Orleans, LA
- 2024 A Simple Model of Long-term Population Expansion and Recession, Society for American Archaeology Meeting, New Orleans, LA
- 2023 Co-Presenter: Population, Sex, and Diet (\*Geena Black first author), Society for American Archaeology Meeting, Portland, OR
- 2023 Co-Presenter: Climate, Agriculture, and Resource Richness (\*Jennifer Finn first author), Society for American Archaeology Meeting, Portland, OR
- 2023 Presenter: Repeated Population Declines Among Prehistoric Hunter-gatherers, Society for American Archaeology Meeting, Portland, OR
- 2022 Co-Presenter: The Geography of Human Population Growth (\*Darcy Bird first Author), European Archaeological Association Meeting, Budapest, Hungary
- 2022 Co-Presenter: Looking in the border: Variation in Central Western Argentina Human Population Dynamics and the Spread of Maize Farming, Society for American Archaeology Meetings, Chicago, IL

- 2019 Co-Presenter (\*D. Bird first author): The long-term population stability of human societies, Society for American Archaeology Meetings, Albuquerque, NM
- 2019 Co-Presenter (\*S. Nabity first author): The intensification of resource use in SW Wyoming, Society for American Archaeology Meetings, Albuquerque, NM
- 2018 Co-Presenter (\*D. Bird first author): The effects of biodiversity on the long-term population stability of human societies, Society for American Archaeology Meetings, Washington D.C.
- 2018 Co-Presenter (\*S. Nabity first author): Does increasing social complexity buffer energy consumption from the effects of high frequency climate variation? A Western European Case Study, Society for American Archaeology Meetings, Washington D.C.
- 2018 Session organizer: PEOPLE 3000: Investigating potential tipping points generated by the climate-population-resource management nexus over the last 3000 years, Society for American Archaeology Meetings, Washington D.C.
- 2018 Presenter: (with \*Gideon Maughn, Erick Robinson, David Byers and Robert L. Kelly): Culture process and the interpretation of the radio-carbon record, Society for American Archaeology Meetings, Washington D.C.
- 2017 Presenter: (with Jacopo Baggio, Tom Coyle, \*Samantha Nabity, \*Tam The Nguyen, and \*Karrie Elpers): Cognitive abilities and the resilience of common pool resource systems to ecological change, International Resilience Conference, Stockholm, Sweden
- 2017 Co-Presenter: (\*Samantha Nabity 1st author): Cognitive Abilities and Group Adaptability in a Common Pool Resource Game, International Association for the Study of the Commons, Utrecht, Netherlands
- 2017 Presenter (with Jacopo Baggio):The effect of territorial ownership on ecosystem intervention, Society for American Archaeology Annual Meeting, Vancouver, Canada
- 2015 Presenter: The resilience and collapse of a 6000 year old mortuary and ritual complex on the Texas Coastal Plain, European Archaeological Association Annual Meeting, Glasgow, UK
- 2015 Poster Presentation: The Social Opportunity Hypothesis, Society for American Archaeology Annual Meeting, San Francisco, CA.
- 2015 Poster Presentation:Territoriality and Resilience on the Texas Coast (with Robert J. Hard, Raymond P. Mauldin and Leonard Kemp), Society for American Archaeology Annual Meeting, San Francisco, CA

- 2014 Session organizer: Archaeological Studies of the Long-Term Resilience of Food Supplies to Climatic Shocks in Arid North America and the North Atlantic, International Resilience Conference, Montpellier, France
- 2014 Presenter: The Robustness of Plant Assemblages to Climate Shocks and the Evolution of Agroecological Systems, International Resilience Conference, Montpellier, France
- 2013 Invited presenter: Intensification, Tipping Points and Social Change in a Coupled Forager-Resource System, Society for American Archaeology Annual Meeting, Honolulu, HI
- 2013 Invited presenter: (with L. Swantek): The Long-term Effects of Agricultural Intensification on Human Well-being, Society for American Archaeology Annual Meeting, Honolulu, HI
- 2011 Presenter (with Andrea Torvinen, John M. Anderies, Ben Nelson and Ann Kinzig): Analyzing the Impact of Crop Specialization in a Prehispanic Maize-Agave Economy in Northern Mexico, International Resilience Conference, Tempe, AZ
- 2011 Contributor: (with Robert Hard, A. C. MacWilliams, John R. Roney, and Karen R. Adams) The Absence of Aggregated Populations in Central and Southern Chihuahua, Society for American Archaeology Annual Meeting, Sacramento, CA
- 2011 Session organizer: Process and Change in Prehistoric Socio-Natural Systems, Society for American Archaeology Annual Meeting, Sacramento, CA
- 2011 Presenter: Crop Diversity in Human Agricultural Systems, Society for American Archaeology Annual Meeting, Sacramento, CA.
- 2010 Presenter: Graduate Students' Perspectives of Lewis Binford and his Impact on Archaeology, St. Louis, MO
- 2007 Poster presenter: (with Robert Hard), Projecting Courses of Plant Based Intensification: Exploring low-level food producers, Austin, TX
- 2006 Poster presenter: Prehistoric Resource Intensification in Texas, San Juan, Puerto Rico,
- 2004 Poster presenter: Comparison of Temperate Zone Archaeological Sequences: Exploring patterns of culture change, Montreal, Canada

## Professional Memberships

- American Association for the Advancement of Science
- American Anthropological Association
- Society for American Archaeology

## Teaching

### Utah State University, Logan Campus

- ANTH 1030 World Archaeology
- ANTH 3350 Collective Action in Ancient Civilizations
- ANTH 4110/6110 Southwest Cultures, Past and Present
- ANTH 4210/6210 Anthropological Perspectives on Conservation
- ANTH 4980 History and Theory in Anthropology
- ANTH 6360 Graduate Seminar in Quantitative Methods and Research Design
- ANTH 6410 Writing for Archaeologists
- ANTH 6370 Graduate Seminar in Geographic Information Systems
- ANTH 6950 Graduate Seminar: Social-Ecological Systems Models in Anthropology and Archaeology
- ANTH 6950 Graduate Seminar: Paleodemography and Sustainability

### Truman State University, Kirksville, MO

- ANT 191 Anthropological Inquiry
- SOAN 316 Cross-cultural Approaches to Diversity and Change

### Mesa Community College, Mesa, AZ

- ASB 223 Buried Cities and Lost Tribes: New World

### Utah State University, Undergraduate Research Mentees

- 2023, 2024 Alyssa Ahmann
- 2023, 2024 Matthew Jensen
- 2023 Jared Skanchy
- 2018, 2019 Lux Miranda
- 2017, 2018 Samantha Nabity
- 2018 Michelle Platt
- 2018 Amanda Cook
- 2017 Erica Hawvermale
- 2017 Elizabeth Bingham
- 2017 Katlyn Casagrand

### Utah State University, Graduate Committees

- (Chair) Stan Rhodes (PhD-ENVS, Complete)
- (Chair) Gideon Maughan (MS Complete)
- (Chair) Paige Dorsey (MS Complete)
- (Chair) Darcy Bird (MS Complete)

(Chair) Michael Young (MS Current)  
Rafael Ivan Hurtado Valdivieso (PhD at UCF Current)  
Shivani Persaud (PhD at UCF Current)  
Sam Yates (MS Complete)  
Jonathan Keith (MS Complete)  
Andrew Owens (MS Complete)  
Richard Olsen (MS Complete)  
Ben Zumkeller (MS Complete)  
Cala Kennedy (MS Complete)  
Trista Schiele (MS Complete)  
Alexa Wolberg (MS Complete)  
Ryan McGrath (MS Complete)  
Elizabeth Groat (MS Complete)  
Michele Hoferitza (MS Complete)  
Brandon Walter (MS Complete)  
Michael Bianchini (MS Complete)

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## Service

### Editorship

2020-present Academic Editor for PloS One

### Ad hoc Journal Reviewer

*PNAS, Nature Communications, American Antiquity, Ecological Economics, Ecology and Society, Human Ecology, Journal of Archaeological Method and Theory, International Journal of the Commons, Journal of Anthropological Archaeology, PLoS ONE, Quaternary International, Hunter-gatherer Research, Journal of Archaeological Science, Journal of Archaeological Science Reports, Nature: Human Behavior, Nature Communications: Earth & Environment, Proceedings of the Royal Society: Series B, Intelligence*

### Ad Hoc Agency Reviewer

*National Science Foundation of the United States, Swiss National Science Foundation*

### University Service

2021-present Anthropology Program Director

2024 Tenure Track Assistant Professor of Environmental Archaeology Search Committee Chair

2024 Postdoctoral Associate in Environmental Archaeology Search Committee Chair

2024 Tenure Track Assistant Professor of Biological Anthropology Search Committee Chair

- 2023 Department Awards Committee
- 2023 Temporary Assistant Professor of Biological Anthropology Search Committee Chair
- 2022-2023 Department Equity and Merit Pay Committee Chair
- 2017-2021 Anthropology Honors Adviser for the University Honors Program
- 2018, 2020 University level, Honors Admissions Committee Member
- 2017-2018 Collage level, Faculty Grant Review Panel in the College of Humanities and Social Sciences
- 2017 Department level, Online Instructor Search Committee Member
- 2016 Department level, Cultural Anthropologist Temporary Instructor Search Committee Member
- 2016 USU Anthropology Program Undergraduate Honors Adviser
- 2016 Department level, Cultural Anthropologist Instructor Search Committee Member
- 2015 Department level, Awards Committee Member
- 2015 Department level, Guest Speaker Committee Member

### Outreach

- 2020 Science on Tap event at the Cache venue in Logan, UT: “A buried empire and insights for sustainable societies today.”
- 2019 Public presentation at the Leonardo Museum in Salt Lake City: titled: “A buried city, a buried empire, and their lessons for sustainable societies today.”
- 2018 Interview with Utah Public Radio on the “Synchronization of human energy consumption throughout the Holocene.”
- 2018 Appearance on “UnDisciplined” (Utah Public Radio), hosted by Mathew LaPlante to discuss “Synchronization of human energy consumption throughout the Holocene.”
- 2018 Appearance on KVNU Radio News to discuss “Synchronization of human energy consumption throughout the Holocene.”
- 2016 Utah Public Radio appearance on Access Utah to discuss diversity, social intelligence and cooperation in social-ecological systems
- 2016 USU Anthropology Museum Anthropology Lecture Series 2016: “The Work-around Hypothesis for the Adoption of Farming”