

Charles Perreault

School of Human Evolution and Social Change
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EDUCATION

2011 Ph.D., Anthropology, University of California, Los Angeles
2007 M.Sc., Anthropology, Université de Montréal, Canada
2004 B.Sc., Anthropology, Université de Montréal, Canada

PROFESSIONAL APPOINTMENTS

2014–Present Assistant Professor, School of Human Evolution and Social Change, Arizona State University
2013–2014 Assistant Professor, Department of Anthropology, University of Missouri
2011–2013 Omidyar Fellow, Santa Fe Institute, New Mexico

AFFILIATIONS

2017–Present Faculty Affiliate, Center for Archaeology and Society, Arizona State University
2015–Present Research Faculty, Institute of Human Origins, Arizona State University
2015–Present Core Faculty, Center for Social Dynamics & Complexity, Arizona State University
2017–Present Associate, Coalition for Archaeological Synthesis
2015–2016 Honors Faculty, Barrett, The Honors College, Arizona State University

PUBLICATIONS

Books

1. 2019. **Perreault C.** The Quality of the Archaeological Record, *The University of Chicago Press*.

Journal Articles

17. 2018. Derex, M., **C. Perreault**, and R. Boyd, Divide and conquer: intermediate levels of population fragmentation maximize cultural accumulation. *Philosophical Transactions B*, 373: 20170062.
16. 2018. **Perreault C.**, Time-averaging slows down rates of change in the archaeological record. *Journal of Archaeological Methods and Theory*. 25 (3): 953-964.
15. 2017. Madsen, D. B., **C. Perreault**, D. Rhode, Y. Sun, M. Yi, K. Brunson, P. J. Brantingham. Early foraging settlement of the Tibetan Plateau highlands. *Archaeological Research in Asia*, 11, 15-26.
14. 2016. Mathew, S. and **C. Perreault**, Cultural history, not ecological environment, is the main determinant of human behavior. *Proceedings of the Royal Society B*, 283: 20160177.
13. 2016. **Perreault, C.**, M. T. Boulanger, A. M. Hudson, D. Rhode, D. B. Madsen, J. W. Olsen, M. L. Steffen, J. Quade, M. D. Glascock, and P. J. Brantingham, Characterization of obsidian from the Tibetan Plateau by XRF and NAA. *Journal of Archaeological Science Reports*, 5: 392-399.
12. 2015. Mathew, S. and **C. Perreault**, Behavioural variation in 172 small-scale societies indicates that social learning is the main mode of human adaptation. *Proceedings of the Royal Society B*, 282: 20150061.
11. 2014. Rhode, D., P. J. Brantingham, **C. Perreault**, D. Madsen, Mind the gaps: testing for hiatuses in regional radiocarbon date sequences. *Journal of Archaeological Science*, 52: 567-577.
10. 2013. **Perreault, C.**, P. J. Brantingham, S. L. Kuhn, S. Wurz, G. Xing, Measuring the complexity of lithic technology. *Current Anthropology*, 54 (S8), S397-S406.
9. 2013. P. J. Brantingham, X. Gao, D. B. Madsen, D. Rhode, **C. Perreault**, J. Woerd, and J. Olsen, Late occupation of the high-elevation northern Tibetan Plateau based on cosmogenic, luminescence, and radiocarbon ages. *Geoarchaeology*, 28 (5): 413-431.

8. 2012. **Perreault, C.**, The pace of cultural evolution. *PLoS One*. 7(9): e45150.
7. 2012. **Perreault C.**, C. Moya and R. Boyd, A Bayesian approach to the evolution of social learning. *Evolution and Human Behavior*, 33(5): 449-459.
6. 2012. **C. Perreault** and S. Mathew., Dating the origin of language using phonemic diversity. *PLoS One*, 7(4): e35289.
5. 2012. Kandler, A., **C. Perreault** and J. Steele., Cultural evolution in spatially structured populations: A review of alternative modeling frameworks. *Advances in Complex Systems*, 15(1-2).
4. 2011. **Perreault C.**,The impact of site sample size on the reconstruction of culture-histories. *American Antiquity*, 76(3): 547-572.
3. 2010. **Perreault, C.** and P. J. Brantingham, Mobility-driven cultural transmission along the forager-collector continuum, *Journal of Anthropological Archaeology*, 30(1): 62-68.
2. 2010. Brantingham P. J. and **C. Perreault**. Detecting the effects of selection and stochastic forces in archaeological assemblages. *Journal of Archaeological Science*, 37(12): 3122-3225.
1. 2010. **Perreault, C.** A note on the reconstruction of animal social network from independent small group observations. *Animal Behaviour*, 80(3): 551-562.

Peer-Reviewed Commentaries

1. 2014. K. Panchanathan, S. Mathew, and **C. Perreault**, Explaining group-level traits requires distinguishing process from product *Behavioral and Brain Sciences*, 37(3): 269-270. **[Invited comment]**

INVITED TALKS

- 2018 When did our capacity for cumulative culture evolve? College of Earth Environmental Sciences, Lanzhou University, China, June 30th.
- 2013 The origins of social learning. Evolutionary studies at the University of Missouri, October 29th.
- 2012 Why is culture adaptive? IGERT Program in Evolutionary Modeling Seminar Series. Washington State University-Pullman. September 27th.
- 2012 The origins of cumulative culture. Wenner-Gren Symposium #145 on "Alternative Pathways to Complexity: Evolutionary Trajectories in the Middle Paleolithic and Middle Stone Age, Stockholm, Sweden. June 5th.
- 2012 The ecological and cultural determinants of human behavior. Behavioral Sciences Discussion Group, Santa Fe Institute. February 22nd.
- 2011 The pace of cultural evolution. Behavior, Evolution, and Culture Speaker Series, UCLA. May 23rd.

CONFERENCE ACTIVITY

- 2019 Perreault C., A macroarchaeology approach: how can archaeology make novel and useful contributions to evolutionary theory?, *84th Annual Meeting of the Society for American Archaeology*, Albuquerque, NM, April 12th.
- 2019 Paige, J., Dytchkowskyj, D. and C. Perreault, Measuring the complexity of stone tool technologies from the Lower Paleolithic through the Late Holocene, *84th Annual Meeting of the Society for American Archaeology*, Albuquerque, NM, April 12th.
- 2018 Paige, J., and C. Perreault, Were early stone tool technologies genetically transmitted? Comparing passerine nests and Acheulean handaxes, 2nd Cultural Evolution Society Conference, Tempe AZ, October 22th.
- 2018 Paige, J., Dytchkowskyj, D. and C. Perreault, Measuring the complexity of stone tool technologies from the Lower Paleolithic

through the Late Holocene, 2nd Cultural Evolution Society Conference, Tempe AZ, October 22th.

- 2018 Paige, J., and C. Perreault, Was Acheulean technology genetically constrained? Comparing variation in Acheulean tools to variation in North American bird nests, *83rd Annual Meeting of the Society for American Archaeology*, Washington DC, April 13th.
- 2017 Madsen, D., P. J. Brantingham, Yongjuan S., Rhode, D., Mingjie, Y., and C. Perreault, Reconstructing the initial human occupation of the Northern Tibetan Plateau, *European Geosciences Union General Assembly 2017*, Vienna, Austria, April 25th.
- 2017 Miltimore, D., Paige, J., and C. Perreault, Comparing traditional and photogrammetric 3D model-based measurements of lithic artifacts, *82nd Annual Meeting of the Society for American Archaeology*, Vancouver, Canada, March 30th.
- 2017 Paige, J., and C. Perreault, Assessing likelihood of convergence in flake attributes, *Paleoanthropology Society 2017 Annual Meeting*, Vancouver, Canada, March 28th.
- 2016 Hudson, A. M., Olsen, J. W., Quade, J., Lei, G., Huth, T., Zhang, H, C. Perreault, Wetlands sediment record from the upper Yarlung Tsangpo valley, southwest Tibetan Plateau, reveals mid-Holocene Epipaleolithic human occupation coincident with increased early and mid-Holocene wetness driven by enhanced Indian Monsoon rainfall, *American Geophysical Union Fall Meeting, San Francisco, December 13th*.
- 2016 P. J. Brantingham and C. Perreault, Where is the evidence for selection? Climate change and the colonization of the Northern Tibetan Plateau, *81st Annual Meeting of the Society for American Archaeology*, Orlando, April 7th.
- 2015 Perreault. C., Measuring the complexity of lithic technology. *80th Annual Meeting of the Society for American Archaeology*, San Francisco, April 17th.
- 2013 Perreault. C., The scale of the archaeological record and the origins of social complexity. *112th Annual Meeting of the American Anthropological Association*, Chicago, November 21st.
- 2012 Perreault. C., The pace of cultural evolution, *78th Annual Meeting of the Society for American Archaeology*, Honolulu, April 17th.

- 2011 Perreault. C., The pace of technological evolution. *Annual Archaeology Graduate Student Conference*, Fowler Museum, UCLA. February 19th.
- 2010 Rhode, D., Madsen, D., Brantingham, P. J., and C. Perreault, Early Human occupation on the northeast Tibetan Plateau (Rhode, D., Madsen, D., Brantingham, P. J). *American Geophysical Union Fall Meeting*, San Francisco. December 16th.
- 2010 Perreault. C., Cultural evolution is faster than biological evolution. *109th Annual Meeting of the American Anthropological Association*, New Orleans. November 18th.
- 2007 Perreault. C., Mobility topology and cultural transmission: Exploring the forager – collector continuum. *73th Annual Meeting of the Society for American Archaeology*, Vancouver, Canada. March 28th.

RESEARCH EXPERIENCE

- 2018 Tibet Research Group, Lanzhou University (PI Fahu Chen)
Contribution: Scientific advisor
- 2016–Present Human Origins in Northeast Asia Project (PI)
- 2007–Present Tibet Paleolithic Project, Tibet, China (PI P. Jeffrey Brantingham)
- 2011–2014 Universal Patterns in the Emergence of Complex Societies, John Templeton Foundation Grant, Santa Fe Institute (PI Jeremy A. Sabloff)
- 2007–2010 Joint Mongolian-Russian-American Archaeological Expeditions, Mongolia (PI John Olsen)
- 2010 Inferring Structure and Forecasting Dynamics on Evolving Networks MURI Project, UCLA.
- 2006–2007 Mathematical and Simulation Modeling of Crime Project, UCLA.
- 2003–2005 Projet Méganticois, Québec, Canada
- 2003 Proyecto Huaca Santa Clara, Peru

2002

Proyecto Santa Universidad de Montreal, Peru

TEACHING

ASU

SHESC Early Start Program
Summer 2018

ASB 591 – The Quality of the Archaeological Record
Spring 2016

ASB 222 – Buried Cities and Lost
Average enrollment: 450
Spring 2015, Fall 2015, Spring 2016, Spring 2017, Spring 2018, Fall
2018, Spring 2019, Fall 2019

ASM 246 – Human Origins
Enrollment: 121
Spring 2019

University of Missouri

World Archaeology
Spring 2014

Fundamentals of Archaeology
Fall 2013, Spring 2014

ASU GRADUATE MENTORING

Primary Mentor

2018–Present Cindy Hsin-yee Huang (Co-Chair)

2016–Present Deanna Dytchkowskyj

2015–Present Jonathan Paige

2014–2015 Lisa Phan (Left academia)

Committee Member

2019–Present Patrick Fahey

2017–Present John Murray

TEACHING AWARDS

2018 Nominated for Outstanding Doctoral Mentor Award, ASU Graduate College

2016 Excellence in Teaching Award in the School of Human Evolution and Social Change

ASU SERVICE

Unit level service

Fall 2018–Spring 2019 Member of the Archaeology Approach Faculty Search Committee

Fall 2018–Spring 2021 Member of the SHESC Executive Committee.
The role of the executive committee is to advise the directorate of the School on strategic planning and provide faculty input.

Spring 2018 Member of the Evolutionary Anthropology Approach Faculty Search Committee

Spring 2018 Member of the Archaeology Approach Faculty Search Committee

Fall 2017–Spring 2018 Co-organizer, Evolution of Social Complexity Speaker Series

Spring 2018 Member of the Reynold Ruppé Prize in Archeology Committee

Spring 2017 Member of the Graduate Student Evaluation Committee, Archaeology Approach

Fall 2015–Spring 2017 Chair of SHESC Colloquium Series Committee

Fall 2014–Spring 2015 Member of the Evolutionary Anthropology Search Committee

Professional level service

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| Spring 2019–Spring 2020 | Member of the Minority Scholarships Committee of the Society for American Archaeology |
| Fall 2017–Fall 2018 | Organizing Committee, Cultural Evolution Society Conference 2018 |
| Spring 2015 | Scientific Committee, The Cultural Evolution of Technology Workshop, Conference on Complex Systems 2015 |

Peer Review Activity

Journal Articles

1. Animal Behavior
2. Cliodynamics: The Journal of Quantitative History and Cultural Evolution
3. Behavioral Ecology and Sociobiology
4. Evolution & Human Behavior
5. Journal of Archaeological Science
6. Journal of Human Evolution
7. PaleoAnthropology
8. Springer
9. Texas A&M University Press
10. Proceedings of the Royal Society B
11. Scientific Reports
12. Frontier of Digital Humanities

Grant Proposals

1. Leaky Foundation (Spring 2019, Fall 2019)

Community level service and outreach

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| Fall 2012 –Spring 2013 | STEM mentor for high school students (Santa Fe MASTERS Program High School, 4 students) |
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Media Inquiry

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| January 2020 | Wired Magazine, Inside Science |
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