Dr. Stefani A. Crabtree, Ph.D.

CONTACT INFORMATION

The Santa Fe Institute 1399 Hyde Park Rd. Santa Fe, NM 87501

www.stefanicrabtree.com

RESEARCH INTERESTS

Computational social science; food webs; coupled human-natural systems; human dimensions of climate change; complex adaptive systems; network science (methods, theories, applications); agent-based modeling; the archaeology of the American Southwest, southern France and Mongolia; ethnoarchaeology aboriginal Australia.

APPOINTMENTS

Current

- Assistant Professor in Social-Environmental Modeling, Department of Environment and Society, College of Natural Resources, Utah State University
- ASU-SFI Center for Biosocial Complex Systems Fellow, The Santa Fe Institute (January 2019-August 2022)
- Research Associate, Crow Canyon Archaeological Center (March 2018-present)
- Fellow, Centre de Recherches Interdisciplinaires (January 2018-present)
- •Co-director, NOMAD Science Mongolia (June 2012-present)

past

- Post-doctoral scholar, The Pennsylvania State University (January 2017-December 2018)
- •Researcher, Laboratory for Social Minds, Indiana University (2016)
- •Research Fellow, Department of Anthropology, Washington State University (2009-2015)
- •Teaching Fellow, Department of Anthropology, Washington State University (2012-2016)
- •Archaeologist, Cultural Resource Consultants (2010)
- Archaeologist and Crew Chief, SWCA Environmental Consultants (2008-2009)
- Archaeologist and Crew Chief, Cultural Resource Analysts, Inc. (2007-2008)
- •Assistant to the Executive Director, Urgent Action Fund (2006-2007)

EDUCATION

- Ph.D. Archéologie, Territoires, Environnement Université Bourgogne Franche-Comté, Besançon, Franche-Comté, France. February, 2017
- Ph.D. Department of Anthropology, Washington State University, Pullman, WA. December, 2016
- M.A. Department of Anthropology, Washington State University, Pullman WA. 2012

B.A. Department of Anthropology, Scripps College, Claremont, CA. *Minor: French.* 2004

PUBLICATIONS Citations: 167; H-index: 7; i10-index: 4

*Indicates corresponding author

Articles Under Review or in Advance Preparation

Vella, Anthea, Ian Moffat*, Julia K. Clark, J., Jamsranjav Bayarsaikhan, David Putnam, Bayaana Chinbold, **Stefani A. Crabtree**, and Camilla Sturm. "Geophysical Investigation of the Soyo Archaeological Site, Northern Mongolia." Submitted to. *Archaeological Prospection*. 2018.

Peer-reviewed journal articles

- In press Crabtree, Stefani A.*, Benjamin Davies, Iza Romanowska, Kathryn Harris. "Using Agent-based models in archaeological outreach: Why model? How to model? When to use a model? A step-by-step guide (Part III of III)." Submitted to Advances in Archaeological Practice. 2018.
- In press

 Romanowska, Iza*, **Stefani A. Crabtree**, Benjamin Davies, Kathryn Harris.

 "Agent-based Modeling for Archaeologists. Why model? How to model? When to use a model? A step-by-step guide (Part I of III)." Submitted to Advances in Archaeological Practice. 2017.
- In press

 Benjamin Davies*, Romanowska, Iza, **Stefani A. Crabtree**, Kathryn Harris

 "Combining Geographic Information Systems and Agent-Based Models in
 Archaeology: Part II in: Why model? How to model? When to use a model? A

 step-by-step guide (Part II of III)." Submitted to Advances in Archaeological Practice.

 2018.
- In press Crabtree, Stefani A.*, and Lewis Borck. Social Network Analysis in Archaeology. Encyclopedia of Global Archaeology. C. Smith (Ed.) Springer, NY 2019 Edition. 2019.
- 2019 **Crabtree, Stefani A.*,** Douglas W. Bird, Rebecca Bliege Bird. "Subsistence Transitions and the Simplification of Ecological Networks in Western Australia." *Human Ecology.* 2019. https://doi.org/10.1007/s1074
- 2018 (authors alphabetical) Moritz, Mark*, Roy Behnke, Christine Beitl, Rebecca Bliege Bird, Rafael Chiaravalloti, Julia K. Clark, **Stefani A. Crabtree**, Sean Downey, Ian M. Hamilton, Sui Chian Phang, Paul Scholte, James Wilson (Authors alphabetical after first author). *Emergent Sustainability in Open Property Regimes*. *PNAS* 115(51)12859-12867.

2017	Crabtree, Stefani A.* , Lydia J. S. Vaughn, Nathan T. Crabtree "Reconstructing Ancestral Pueblo food webs in the southwestern United States." <i>Journal of Archaeological Science</i> , 81:116-127.
2017	Crabtree, Stefani A., R. Kyle Bocinsky, Paul L. Hooper, Susan C. Ryan, and Timothy A. Kohler*. "How to Make a Polity (in the Central Mesa Verde Region)." <i>American Antiquity</i> , 82(1), 71-95.
2016	D'alpoim Guedes, Jade*, Stefani A. Crabtree , R. Kyle Bocinksy, Timothy A. Kohler "21st Century Approaches to Ancient Problems: Climate and Society." <i>Proceedings of the National Academy of Sciences</i> , 113(51), 14483-14491; doi: 10.1073/pnas.1616188113.
2016	Crabtree, Stefani A.* , and Benjamin A. Bellorado "Using Cross-Media Approaches to Understand Invisible Industry: How Cotton Production Influenced Pottery Designs and Kiva Murals in Cedar Mesa." <i>Kīva</i> , 82(2), 174-200.
2016	Crabtree, Stefani A.* "Simulating Littoral Trade: Modeling the trade of wine in the Bronze to Iron Age transition in Southern France." <i>Land</i> 2016 , 5(1), 5; doi:10.3390/land5010005.
2015	Clark, Julia K., Stefani A. Crabtree* "Examining Social Adaptations in a Volatile Landscape in Northern Mongolia Via the Agent-Based Model Ger Grouper." <i>Land</i> 2015 , 4(1), 157-181; doi:10.3390/land4010157.
2015	Crabtree, Stefani A.* "Inferring Ancestral Pueblo Social Networks from Simulation in the Central Mesa Verde" <i>Journal of Archaeological Method and Theory</i> : Volume 22, Issue 1 (2015), Page 144-181. DOI 10.1007/s10816-014-9233-8
2013	Cockburn, Denton, Stefani A. Crabtree* , Timothy A. Kohler, R. Kyle Bocinsky "Simulating Social and Economic Specialization in Small-scale Agricultural Societies." <i>Journal of Artificial Societies and Social Simulation</i> . Vol 16(5).
2013	Crabtree, Stefani A.* and Ludovic Malécot "The Solitary Goddess: Evidence of Roman and Gaulish syncretism in the <i>Déesse de l'Abondance</i> of Rom, France." <i>The European Archaeologist</i> . Vol 39, p. 7-14.
2012	Crabtree, Stefani A.* and Timothy A. Kohler "Modeling Across Millennia: Interdisciplinary Paths to Ancient Socio-natural Systems" <i>in</i> special issue Modeling Across Millennia: Interdisciplinary Paths to Ancient Socio-natural Systems. <i>Ecological Modelling</i> . Vol 241, p. 2-4.
2012	Timothy A. Kohler*, R. Kyle Bocinsky, Denton Cockburn, Stefani A. Crabtree , Mark Varien, Ken Kolm, Schaun Smith, Scott Ortman, and Ziad Kobti "Modelling Prehispanic Societies in their Ecosystems" <i>in</i> special issue

Modeling Across Millennia: Interdisciplinary Paths to Ancient Socio-natural Systems. *Ecological Modelling*. Vol 241, p. 30-41.

Peer reviewed Book chapters

Dugmore, Andrew, Rowan Jackson, David Cooper, Stefani Crabtree, George
Hambrecht, Megan Hicks, Viðar Hreinsson, Árni Daníel Júlíusson, Anthony
Newton, Richard Streeter and Tom McGovern. "Abrupt versus slowly unfolding
catastrophes- when the pace of change might help coping strategies, but does
not." In Archaeological Perspectives of Catastrophes in Context, Felix Reide and
Payson Sheets, Editors. Berghan Books.

- 2018 Kohler, Timothy A., **Stefani A. Crabtree**, R. Kyle Bocinsky and Paul Hooper "Sociopolitical Evolution in Midrange Societies: The Prehispanic Pueblo Case." *In* The Emergence of Premodern States: New Perspectives on the Development of Complex Societies. Sabloff, JA and Sabloff, PLW, Editors. SFI Press, Santa Fe, NM.
- Laure Nuninger, Pierre Garmy, Thérèse Libourel, **Stefani A. Crabtree**, Jean-Luc Fiches, Jacques Ferber. Modéliser les mutations territoriales de l'Âge du Fer dans le midi de la Gaule (VIe-Ve siècles av. J.-C.). <u>Peupler la Terre: De la préhistoire à l'ère des métropoles.</u> Presses Universitaires François Rabelais ; Paris, France.
- Timothy A. Kohler, **Stefani A. Crabtree**. « Village and Polity Formation in Pueblo Societies: How Population Growth Channels Social Processes in Neolithic Societies ». <u>Peupler la Terre: De la préhistoire à l'ère des métropoles</u>. Presses Universitaires François Rabelais ; Paris, France.
- Nuninger, Laure, Lena Sanders, Timothy A. Kohler, **Stefani A. Crabtree** et al. Un cadre conceptuel générique pour décrire des transitions dans les systèmes de peuplement Application à un corpus de douze transitions entre 70000 BP et 2050. <u>Peupler la Terre: De la préhistoire à l'ère des métropoles</u>. Presses Universitaires François Rabelais ; Paris, France.
- 2012 Kohler, Timothy A., R. Kyle Bocinsky, **Stefani A. Crabtree** and Ben Ford. Exercising the Model: Settlement Efficiency and Changes in Locational Practice, in Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology. Cal Press. p. 153-164.

Other publications and works

- **Crabtree, Stefani A.** American Antiquity. Review of: <u>Connected Communities:</u>
 Networks, Identity, and Social Change in the Ancient Cibola World.
 MATTHEW A. PEEPLES. 2018. The University of Arizona Press, Tucson. vii + 276 pp. (hardback).
- **Crabtree, Stefani A.** Journal of Artificial Societies and Social Simulation. Review of: Simulating Prehistoric and Ancient Worlds (Computational Social Sciences), Barceló, Juan A. and Castillo, Florencia Del (eds.). Springer-Verlag: Berlin. Vol 20(20):2017. http://jasss.soc.surrey.ac.uk/20/2/reviews/2.html
- **Crabtree, Stefani A** and Timothy A. Kohler *editors* Modeling Across Millennia: Interdisciplinary Paths to Ancient Socio-natural Systems. *Ecological Modelling*. August, 2012. Vol 241.
- **Crabtree, Stefani** Healing Secrets of the South Pacific: An anthropologist discovers Samoan tinctures you can sample right at home. March, "Natural Health Magazine", pp.89-90.
- 2008 SWCA Environmental Associates. A Class III Cultural Resource Inventory for the Ryan Gulch 3-D Geophysical Exploration Project, Rio Blanco County, Colorado. November, 2008.
- **Crabtree, Stefani** Medicinal Matriarchs: Women and Traditional Medicine in Oceania and Asia. Thomas J. Watson Foundation Final Report.

TEACHING EXPERIENCE, INSTRUCTOR OF RECORD

University

Spring 2019:	Complexity and the Evolution of Societies, The Santa Fe Institute and Arizona
	State University, Core Course for the Masters in Complexity Science.
Summer 2018:	Modeling Past Human Societies, The Santa Fe Institute Complex Systems
	Summer School
Spring 2018:	Introduction to Agent-Based Modeling, The Pennsylvania State University
Spring 2017:	Agent-based modeling, an introduction. A 2-day workshop at the Computer
	Approaches in Archaeology Conference. Atlanta, GA.
Fall 2016:	Anthropology 130: Great Discoveries in Archaeology, Washington State
	University
	Anthropology 330: The Origins of Civilization, Washington State University
Spring 2016:	Anthropology 201: Art and Society, Washington State University
Spring 2016:	Agent-based modeling, an introduction. A 2-day workshop at the Computer
	Approaches in Archaeology Conference. Oslo.
Fall 2015:	Anthropology 201: Art and Society, Washington State University
Summer 2015	Anthropology 201: Art and Society, Washington State University
Spring 2015	Anthropology 130: Great Discoveries in Archaeology, Washington State

Summer 2013: Simulation multi-agents. A 3-day workshop at the Université de Franche-Comté, France.

Spring 2013 Anthropology 101: General Anthropology (A Four Fields Approach),
Washington State University

Fall 2012 Anthropology 101: General Anthropology (A Four Fields Approach),
Washington State University

INVITED SYMPOSIA & PLENARY

2019	Keynote. Socio-Environmental Dynamics over the Last 15,000 Years: The Creation of Landscapes. Kiel University, Germany, March 10.
2019	National Socio Environmental Synthesis Center. Annapolis, MD, February 11.
2018	Plenary. The Great Basin Anthropological Conference, Salt Lake City, U.K. November 8.
2018	Plenary. The Computational Approaches in Archaeology Conference, Edinburgh, U.K. October 26.
2018	InterPlanetary Festival, Santa Fe Institute. July 7. Santa Fe, NM.
2018	Harvard University Center for the Environment, Cambridge MA. "Reconstructing Food Webs from Archaeological Sites." July 30.
2018	Center on Social Dynamics and Policy, Brookings Institution, Washington DC. "Agent-based modeling to understand the past and future." April 10.
2018	Colorado State University, Fort Collins, CO. "How Environmental Interactions Shaped Ancestral Pueblo Social Dynamics." February 23.
2018	Michigan State University, East Lansing, MI. "How Environmental Interactions Shape Social Dynamics in Archaeological Systems." February 15.
2017	The University of Maryland, College Park, MD. "Examining Human Impacts on Complex Networks." December 13.
2017	The Santa Fe Institute, Santa Fe, NM. "How Complex Adaptive Systems Approaches shed light on the depopulation of Mesa Verde." October 25.
2017	The Pennsylvania State University, University Park, PA. "Reconstructing Ancestral Pueblo food webs in the southwestern United States." January 20.
2015	San Diego State University, San Diego, CA. "Cascading Effects and Social Consequences: Food webs in the Ancestral Pueblo Southwest." November 15.

Washington University in St. Louis, MO. "Examining Ancestral Pueblo Trophic Networks." August 28.
Pitzer College, Claremont, CA. "Ethnography, Archaeology and Adventure in Mongolia." May 2.
University of Southampton, Southampton, U.K. "A Tale of Two Villages, or, How Food Exchange Led to Aggregation in the American Southwest." January 21.
University of Cambridge, Cambridge, U.K. "Aggregation and Simulation in the American Southwest." January 17.

Université de Franche-Comté, Besançon. "Introduction à la modélisation multi-

CONFERENCE ACTIVITY

agent dans Netlogo." May 29.

Podium and Poster

2013

- 2018 **Crabtree, Stefani A.**, Rebecca Bliege Bird. Examining Environmental Resilience Through Coupled Human-Natural Systems: A Case from Western Australia. Paper in symposium at 117th annual meeting of the American Anthropological Association. San Jose, CA.
- Rosenfield, Kevin A., **Stefani A. Crabtree,** Mary K. Shenk, Mark Shriver, Julie White, James P. Higham, Nina Jablonski, David A. Puts. The evolution of fertility signals in primates: An agent-based modeling approach. Paper in symposium at 8th annual meeting of the European Society for the study of Human Evolution. Faro, Portugal. September 14.
- 2018 **Crabtree, Stefani A.**, Rebecca Bliege Bird. Using Food Web Models to Examine Desert Networks in the American Southwest and Western Australia. Paper in symposium at 84th Annual Society for American Archaeology Meetings. Washington, DC. April 12.
- Bliege Bird, Rebecca, **Stefani A. Crabtree**. We make Country, and Country makes us: Australian Aboriginal women as architects of social and ecological networks. Paper in symposium at 116th annual meeting of the American Anthropological Association. Washington, DC. December 1.
- 2017 **Crabtree, Stefani A.,** Timothy A. Kohler. Modeling Polity Growth among Ancestral Pueblo People in Mesa Verde. Paper in symposium at 83rd Annual Society for American Archaeology Meetings. Vancouver, BC. March 30.

- **Crabtree, Stefani A.** Agent-based models of Hierarchy. Paper in symposium at 45th Annual Computation Approaches and Quantitative Methods in Archaeology International Conference. Atlanta, GA. March 14.
- **Crabtree, Stefani A.** Analyzing Trophic Networks Among the Ancestral Pueblo. Paper in symposium at 45th Annual Computation Approaches and Quantitative Methods in Archaeology International Conference. Atlanta, GA. March 15.
- **Crabtree, Stefani A.** Agent-based modeling and complexity science: the next steps in Archaeological Theory? Paper in symposium at 44th Annual Computation Approaches and Quantitative Methods in Archaeology International Conference. Oslo, Norway, March 30.
- **Crabtree, Stefani A.** Assessing Network Connectance with the Assistance of Ethnography, Archaeology and Agent-Based Modeling. Paper in symposium at 114th Annual Society for the American Anthropological Association Meetings. Denver, CO., November 16.
- **Crabtree, Stefani A.** Understanding Vulnerability and Resilience Through Archaeological Foodwebs. Paper in symposium at Conference on Complex Systems '15. Phoenix, AZ., September 28.
- **Crabtree, Stefani A.,** Simon DeDeo. How Human Perception of the Environment Influences the Abandonment Process. Paper in Ignite at Conference on Complex Systems '15. Phoenix, AZ., September 28.
- **Crabtree, Stefani A.,** R. Kyle Bocinsky, Timothy A. Kohler. Hierarchy and Tribute Flow in the American Southwest. Paper in symposium at 80th Annual Society for American Archaeology Meetings. San Francisco, CA, April 16.
- Kohler, Timothy A., R. Kyle Bocinsky, **Stefani A. Crabtree.** The Effects of Temporal Coarse Graining on Inferred Patterns of Human Movement. Paper in symposium at 80th Annual Society for American Archaeology Meetings. San Francisco, CA, April 18.
- **Crabtree, Stefani A.,** R. Kyle Bocinsky, Timothy A. Kohler. Modeling Emergency of Complex Groups on Realistic Landscapes. Principles of Complexity: Life, Scales, and Civilization III, August 2014. Santa Fe Institute, Santa Fe, NM, August 25.
- **Crabtree, Stefani A.,** Nathan T. Crabtree and Lydia Smith. Food Webs in the Ancestral Pueblo Southwest. Global Human Ecodynamics Alliance Modeling. Working Group, Santa Fe Institute, Santa Fe, NM, May 30.
- 2014 Kohler, Timothy A., **Stefani A. Crabtree,** R. Kyle Bocinsky. Emergence of Leadership in Pueblo Societies: Evolutionary Public Goods Games and Corporate

- Group Conflict in Agent-Based Models. Global Human Ecodynamics Alliance Modeling. Working Group, Santa Fe Institute, Santa Fe, NM, May 31.
- 2014 **Crabtree, Stefani A.,** Timothy A. Kohler and R. Kyle Bocinsky. The Development of Social Groups, Leadership and Inequality in the Central Mesa Verde. Paper in symposium at 79th Annual Society for American Archaeology Meetings. Austin, TX, April 26.
- Harris, Kathryn, **Stefani A. Crabtree** and William Andrefsky. The Multifunctional Lives of Points and Flakes. 79th Annual Society for American Archaeology Meetings. Austin, TX, April 25.
- 2014 Timothy A. Kohler, Kelsey Reese, **Stefani A. Crabtree**, and R. Kyle Bocinsky. Prolegomenon: VEP II, Almost in Retrospect. Paper in symposium at 79th Annual Society for American Archaeology Meetings. Austin, TX, April 26.
- 2014 **Crabtree, Stefani.** Modélisation multi-agent d'un réseau d'échanges. TransMonDyn. Lyon, France, January 19.
- 2013 Kohler, Tim A., R. Kyle Bocinsky, **Stefani A. Crabtree**, Andrew Hlynka, Lokesh Patil, Paul Lovell Hooper, Ziad Kobti. Leadership, Territoriality and Conflict in an Agentized Pueblo World in Complex-Systems Approaches to Long-Term Change. Paper in symposium at 112th Annual American Anthropological Association. Chicago, IL, November 21.
- 2013 **Crabtree, Stefani**. Interactions des spheres culturelles étrusques, grecques et gauloises entre l'âge du bronze et l'âge du fer dans le sud de la France: modélisation multi-agent d'un réseau d'échanges. Journée des doctorants en archéologie de l'Université de Franche-Comté. Besançon, France, November 10.
- 2013 **Crabtree, Stefani**, Julia K. Clark. Ger Grouper: Examining Social Interactions to a Volatile Environment in Northern Mongolia, Paper in symposium at Complex Systems in Prehistoric Research Satellite Workshop. European Conference on Complex Systems, ECCS'13. Barcelona, Spain, September 19.
- 2013 **Crabtree, Stefani**. Exchange, Alliances and Aggregation in the Village Ecodynamics Project. Presented at the 2013 Village Ecodynamics Project Presentation and Discussion of Preliminary Results. Crow Canyon, Cortez, CO, July 29.
- 2013 Kohler, Tim, **Stefani Crabtree**, Michael Berry. The Secrets of the Southwest Solved by Walkative Tree Rings. Paper in symposium at 78th Annual Society for American Archaeology Meetings. Honolulu, HI, April 4.

- 2013 **Crabtree, Stefani.** Constructing Communities: Examining Household Aggregation in the American Southwest. 78th Annual Society for American Archaeology Meetings. Honolulu, HI, April 6.
- 2013 Harris, Kathryn, **Stefani Crabtree.** A Neutral Model of Stone Raw Material Procurement.. 78th Annual Society for American Archaeology Meetings. Honolulu, HI, April 5.
- 2012 **Crabtree, Stefani** *Invited Presenter*. Studying Archaeological Foodwebs in Ancestral Puebloan Society. Paper in symposium at CUNY Human Ecodynamics Research Center 2012 Open Workshop in Sustainability Science and Education. New York, NY, October 15.
- 2012 **Crabtree, Stefani**. Exchange, Alliances and Aggregation on the Colorado Plateau. 77th Annual Society for American Archaeology Meetings. Memphis, TN, April 22.
- 2012 Reese, Kelsey M., R. Kyle Bocinsky, Kay E. Barnett, **Stefani A. Crabtree**, Elise E. Alonzi, Andrew R. Steier, Donna M. Glowacki, Timothy A. Kohler. Large, Aggregated Villages in Little Soda Canyon. 77th Annual Society for American Archaeology Meetings. Memphis, TN, April 21.
- 2012 **Crabtree, Stefani,** Lydia Smith, Timothy A. Kohler. "Trophic Interconnecdedness in Southwestern Colorado: Studying Archaeological Food Webs in Ancestral Puebloan Society." 64th annual American Association for the Advancement of Science. Vancouver, BC. February 18. *See also awards*.
- Donna Glowacki, Timothy Kohler, Kay Barnett, R. Kyle Bocinsky, **Stefani Crabtree**, Kelsey Reese, Elise Alonzi, and Andrew Steier. Large Villages in Upper Soda Canyon: an update on VEP field work." 2011 Pecos Conference, Arizona. August 7.
- 2011 **Crabtree, Stefani**, Denton Cockburn, Ziad Kobti, Timothy A. Kohler. Archaeology Time Machine: Witnessing Social Interactions on the Pueblo Landscape through Agent-based Simulation. Paper in symposium at 76th Annual Meeting Society for American Archaeology. Sacramento, CA. April 3.
- 2011 **Crabtree, Stefani.** "There is No Such Thing as a Free Lunch: Costly Exchange in the Village Ecodynamics Project: A Network Analysis." 64th annual Northwest Anthropological Conference. Moscow, ID. April 22.
- Kohler, Timothy A., R. Kyle Bocinsky, **Stefani Crabtree**, and Denton Cockburn. The Village Ecodynamics Project: Modeling the Deep Pueblo Past. Paper in Symposium Modeling Across Millennia: Interdisciplinary Paths to Ancient Socionatural Systems. Paper in symposium at 177th AAAS Annual Meeting, Washington, D.C. February 20.

- 2010 **Crabtree, Stefani**, Timothy Kohler. Alliance Formation and Breakdown: Networks in the Village Ecodynamics Project. 109th Annual Meeting of the American Anthropological Association. New Orleans, LA. November 19.
- 2010 **Crabtree, Stefani**, Timothy Kohler, R. Kyle Bocinsky, Ben Ford. Modeling or Simulation? Assessing settlement patterns—real and modeled—in the VEP World. Paper in symposium at 75th Annual Meeting Society for American Archaeology, St. Louis, MO. April 15.

Symposia Organized

- Beyond Centrality: Bridging Network Approaches through Archaeological Narratives. Society for American Archaeology. Washington, D.C., April.
- 2017 Data, Theory, Methods, and Models. Approaching Anthropology and Archaeology through Computational Modeling. Computer Approaches and Quantitative Applications in Archaeology. Atlanta, GA, March 15.
- 2016 Complex systems simulations in archaeology. Can You Model That? Applications of Complex Systems Simulation to Explore the Past. Computer Approaches and Quantitative Applications in Archaeology. Oslo, Norway, March 30.
- 2015 Social networks, disasters, and human resilience: perspectives from the four fields of anthropology. 114th Annual Society for the American Anthropological Association Meetings. Denver, CO., November 16.
- Simulating Social Complexity to Understand the Archaeological Past. 80th Annual Society for American Archaeology Meetings. San Francisco, CA. April 16.
- 2012 Socionatural Systems in the Northern U.S. Southwest: A Village Ecodynamics Project II Progress Report. 77th Annual Society for American Archaeology Meetings. Memphis, TN, April 21.
- Modeling Across Millennia: Interdisciplinary Paths to Ancient Socio-natural Systems. AAAS Annual Meetings. Washington, DC. February 20.

Discussant

- 2018 Anthropology's contributions to interdisciplinary graduate training, research, and education. 117th annual meeting of the American Anthropological Association. San Jose, CA.
- The nuts and bolts of agent-based modelling for archaeological science. 84th Annual Society for American Archaeology Meetings, Washington, D.C. April.

2017 Modeling Agro-Pastoralism in Eurasia. 83rd Annual Society for American Archaeology Meetings, Vancouver, BC. April 1.

ARCHAEOLOGICAL AND ETHNOGRAPHIC FIELD EXPERIENCE

United States: Southwest (Mesa Verde National Park), Rocky Mountain West (Colorado, Wyoming), Great Plains (North Dakota, South Dakota, Eastern Montana, Wyoming), Great Basin (Eastern Oregon, Eastern Washington)

Foreign: Mongolia, France, New Zealand, Samoa, India, Vietnam, Australia

FORMAL INTERNATIONAL EDUCATION AND SCIENTIFIC SCHOOLS

2012-2016 Université de Franche-Comté, Besançon, France.

2011 Santa Fe Institute Complex Systems Summer School. Santa Fe, NM. 2011 São Paolo Advanced Science School on Ecological Networks. São Pedro,

Brazil

2005 Hanoi Language School, Vietnam.

2002-2003 Université Paris IV, Sorbonne, Paris, France.

LANGUAGES

English: Native

French: Fluent (speaking, reading and writing)

Spanish, Italian, Vietnamese: Speaking and reading knowledge

COMPUTER SKILLS

Languages: Java, R, NetLogo

Applications: ArcGIS, QGis, Adobe Illustrator, Photoshop

Statistical Packages: R, Stata

Modeling Frameworks: RePAST (Java), NetLogo

Operating Systems: Mac OS X, Windows

PROFESSIONAL AFFILIATIONS

Society for American Archaeology American Association for the Advancement of Science American Anthropological Association Arizona Archaeological and Historical Society Complex Systems Society