

# R. Kyle Bocinsky, PhD

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## Contact Information

Department of Anthropology  
Washington State University  
Pullman, WA 99164-4910

**web** <http://bocinsky.io>  
**phone** 770.362.6659  
**email** [bocinsky@wsu.edu](mailto:bocinsky@wsu.edu)

## Research Interests

*Computational archaeology; complexity; GIS; cyber-infrastructures; southwestern U.S. prehistory; paleoenvironments; human behavioral ecology; foraging theory; plant and animal domestication*

## Education

**Washington State University**, Pullman, Washington

PhD, Anthropology, December 2014

Dissertation title: *Landscape-based Null Models for Archaeological Inference* [pdf]

Committee: Timothy A. Kohler (chair), Jade d'Alpoim Guedes, Andrew I. Duff, and Colin Grier

MA, Anthropology, May 2011

Thesis title: *Is a Bird in Hand Really Worth Two in the Bush? Models of Domestication on the Colorado Plateau* [pdf]

Committee: Timothy A. Kohler (chair), Andrew I. Duff, Donna M. Glowacki, and Brian M. Kemp

**University of Notre Dame**, Notre Dame, Indiana

BA, Anthropology, May 2008

Thesis title: *Rodent Stable Carbon-isotope Ratios as a Measure of Maize Production*

Advisor: Mark Schurr

## Employment

**Washington State University**, Pullman, Washington

Jan 2015–present Post-doctoral Researcher, Department of Anthropology

Aug 2014–Dec 2014 Teaching Assistant, Department of Anthropology

Aug 2009–Jul 2014 Research Fellow, Department of Anthropology

Aug 2008–Jul 2009 Research Assistant, Department of Anthropology

**University of Notre Dame**, Notre Dame, Indiana

Aug 2007–May 2008 Research Assistant, Department of Anthropology

Aug 2005–May 2008 Tour Guide, University Admissions

Aug 2005–May 2008 Office Assistant, Glynn Family Honors Program

Aug 2004–May 2005 Office Assistant, Mendoza College of Business

## Honors & Awards

**Graduate Research Fellowship**

2010–2015 National Science Foundation (DGE-1347973)

\$92,000 stipend and \$32,000 cost-of-education allowance over three years

**Graduate Achievement Award in the Social Sciences at the Doctoral Level**

2014 College of Arts and Sciences, Washington State University, \$500

**IGERT Program in Evolutionary Modeling Traineeship**

2009–2011 National Science Foundation (DGE-0549425)

\$60,000 stipend and \$20,000 cost-of-education allowance over two years

## Peer-reviewed Articles

Schwindt, Dylan M., **R. Kyle Bocinsky**, Scott G. Ortman, Donna M. Glowacki, Mark D. Varien, and Timothy A. Kohler

**In press.** The social consequences of climate change in the Central Mesa Verde region. *American Antiquity*.

- d'Alpoim Guedes, Jade, Guiyun Jin, and **R. Kyle Bocinsky**  
 2015 The impact of climate on the spread of rice to North-eastern China: A new look at the data from Shandong Province. *PLoS ONE*. 30 June 2015. DOI: 10.1371/journal.pone.0130430. [html]
- d'Alpoim Guedes, Jade, **R. Kyle Bocinsky**, and Ethan E. Butler  
 2015 Comment on "Agriculture facilitated permanent occupation of the Tibetan Plateau after 3600 B.P." *Science* 348:872. [pdf]
- McPhillips, Timothy, Tianhong Song, Tyler Kolisni, Steve Aulenbach, Khalid Belhajjame, **R. Kyle Bocinsky**, et al.  
 2015 YesWorkflow: A User-Oriented, Language-Independent Tool for Recovering Workflow Information from Scripts. *International Journal of Digital Curation* 10(1):298–313. doi:10.2218/ijdc.v10i1.370.
- Bocinsky, R. Kyle** and Timothy A. Kohler  
 2014 A 2,000-year reconstruction of the rain-fed maize agricultural niche in the US Southwest. *Nature Communications* 5:5618. DOI: 10.1038/ncomms6618. [pdf]
- Bocinsky, R. Kyle**  
 2014 Extrinsic site defensibility and landscape-based archaeological inference: An example from the Northwest Coast. *Journal of Anthropological Archaeology* 35:164–176. [pdf]
- Cockburn, Denton, Stefani A. Crabtree, Ziad Kobti, Timothy A. Kohler, and **R. Kyle Bocinsky**  
 2013 Simulating Social and Economic Specialization in Small-scale Agricultural Societies. *Journal of Artificial Societies and Social Simulation* 16(4):4. [html]
- Kohler, Timothy A., **R. Kyle Bocinsky**, Denton Cockburn, Mark D. Varien, Stefani A. Crabtree, Kenneth E. Kolm, Schaun M. Smith, and Scott G. Ortman  
 2012 Modelling Prehispanic Pueblo Societies in their Ecosystems. *Ecological Modelling* 241:30–41. [pdf]
- Kohler, Timothy A., Denton Cockburn, Paul L. Hooper, **R. Kyle Bocinsky** and Ziad Kobti  
 2012 The coevolution of group size and leadership: An agent-based public goods model for Prehispanic Pueblo societies. *Advances in Complex Systems* 15(1–2):29 pages. [pdf]

**Book Contributions**  
 \*peer-reviewed

- \***Bocinsky, R. Kyle** and Timothy A. Kohler  
 In press. Complexity, rigidity, and resilience in the Ancient Puebloan Southwest. In *The Future in the Past: Historical Ecology Applied to Environmental Issues*, edited by H. Thomas Foster, II, Lisa Paciulli, and David Goldstein. University of South Carolina Press, Columbia, South Carolina.
- \***Bocinsky, R. Kyle**, Jason A. Cowan, Timothy A. Kohler and C. David Johnson  
 2012 Hunting results: How hunting changes the VEP world, and how the VEP world changes hunting. In *Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology*, edited by T.A. Kohler, and M.D. Varien. University of California Press, Berkeley. [pdf]
- \*Kohler, Timothy A., **R. Kyle Bocinsky**, Stefani A. Crabtree and Ben Ford  
 2012 Supply, Demand, Return Rates, and Resource Depression: Hunting in the Village Ecosystems World. In *Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology*, edited by T.A. Kohler, and M.D. Varien. University of California Press, Berkeley. [pdf]
- \*Cowan, Jason A., Timothy A. Kohler, C. David Johnson, Kevin Cooper and **R. Kyle Bocinsky**  
 2012 Exercising the Model: Settlement Efficiency and Changes in Locational Practice. In *Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology*, edited by T.A. Kohler, and M.D. Varien. University of California Press, Berkeley. [pdf]

## Technical Reports

Glowacki, Donna M., with contributions by Elise Alonzi, **R. Kyle Bocinsky**, and Kelsey Reese  
2012 The Mesa Verde Community Center Survey: Final Report. Manuscript submitted to the National Science Foundation and Mesa Verde National Park, on file with Crow Canyon Archaeological Center and Washington State University in compliance with deliverable for NSF Grant DEB-0816400. [pdf]

Glowacki, Donna M. and **R. Kyle Bocinsky**  
2011 The Mesa Verde Community Center Survey: 2011 Progress Report. Manuscript submitted to the National Science Foundation and Mesa Verde National Park, on file with Crow Canyon Archaeological Center and Washington State University in compliance with deliverable for NSF Grant DEB-0816400. [pdf]

Reed, Charles A., **R. Kyle Bocinsky** and Donna M. Glowacki  
2009 Mesa Verde National Park Community Center Survey: Report and Synthesis. Manuscript submitted to the National Science Foundation and Mesa Verde National Park, on file with Crow Canyon Archaeological Center and Washington State University in compliance with deliverable for NSF Grant DEB-0816400.

## Other Publications

**Bocinsky, R. Kyle**  
2014 Drain your dammed DEMs! Here's how. *Society for Archaeological Sciences Bulletin* 37(1):1–5. [pdf]

## Working Papers

Lipe, William D., **R. Kyle Bocinsky**, Brian S. Chisholm, Robin Lyle, David M. Dove, RG Matson, Elizabeth Jarvis, Kathleen Judd, and Brian M. Kemp  
**In revision.** Cultural and genetic contexts for early turkey domestication in the northern Southwest. *American Antiquity*.

Kohler, Timothy A., Stefani A. Crabtree, **R. Kyle Bocinsky**, and Paul L. Hooper  
**In review.** Modeling Sociopolitical Evolution in Prehispanic Pueblo Societies. [pdf]

Van Dyke, Ruth M., **R. Kyle Bocinsky**, Tucker Robinson, and Thomas C. Windes  
**In review.** Great houses, shrines, and high places: Intervisibility in the Chacoan World. *American Antiquity*.

d'Alpoim Guedes, Jade, Sturt Manning, and **R. Kyle Bocinsky**  
**In review.** A 5000-year model of changing crop niches on the Tibetan Plateau. *Current Anthropology*.

**Bocinsky, R. Kyle** and Timothy A. Kohler  
2012 A preliminary reconstruction of seasonal growing degree days for North America, AD 1–1979. [pdf]

## Software

**Bocinsky, R. Kyle**  
2015 *FedData: Functions to Automate Downloading Geospatial Data Available from Several Federated Data Sources*. R package version 1.1.1. [http]

**Bocinsky, R. Kyle**  
2015 *PaleoCAR: Paleoclimate Reconstruction from Tree Rings using Correlation Adjusted correlation*. R package version 1.0. [http]

## Research & Field Experience

**Washington State University**, Pullman, Washington  
2015–present Post-doctoral Researcher, SKOPE: Synthesized Knowledge of Past Environments  
Cyber-infrastructure design and development; funded by NSF grant BCC-1439603

Summer 2014 Field Technician, The Largo Gap Archaeological Project  
Survey of the community around Largo Gap great house, New Mexico; Directed by Kristin Safi

2008–2009 Research Assistant, Timothy A. Kohler  
Agent based modeling with the Village Ecodynamics Project; documented and debugged code, developed domestication module, and expanded study areas

**Crow Canyon Archaeological Center, Cortez, Colorado**

Summer 2012 Field Intern, Basketmaker Communities Project  
Helped with excavation and education at the Dillard Site, a Basketmaker III community; Directed by Shanna Diederichs

Summer 2011 Visiting Researcher  
Developed a heuristic model of hunting (*heuristic foraging theory*) and began generating revised paleoproduction estimates for the VEPII study areas

**Santa Fe Institute, Santa Fe, New Mexico**

Summer 2013 Visiting Researcher  
Developed a new module for the VEPII simulation linking the coevolution of leadership and group size with a model of group conflict under resource pressure; Sponsored by the John Templeton Foundation grant *The Principles of Complexity*

Summer 2011 Trainee, Graduate Workshop in Computational Social Science  
SFI workshop on computational and statistical techniques for modeling social processes; Directed by John H. Miller and Scott E. Page

**Mesa Verde National Park, Mesa Verde, Colorado**

Summers 2009, 2011, & 2012 Field Technician, The Mesa Verde Community Center Survey  
Visited and documented large aggregated villages in MVNP; Directed by Donna M. Glowacki

**Field Museum of Natural History, Chicago, Illinois**

Summer 2008 Collections Intern  
Facilitated access to collections for visiting researchers, analyzed ceramics, and constructed protective housing for ceramics; Directed by Scott Demel

**University of Notre Dame, Notre Dame, Indiana**

2007–2008 Research Assistant, Mark A. Schurr  
Stable carbon- and nitrogen-isotope analysis of faunal and human remains

**Podium &  
Poster**

**Bocinsky, R. Kyle**

2015 What is the Pecos System, Anyway? 2015 Pecos Conference, Mancos, Colorado. Winner of the 2015 Cordell Prize.

**Bocinsky, R. Kyle**

2015 Can Pueblo Corn Save Ethiopian Farms? Deploying 1,400 Years of Agricultural Knowledge in Service of the Future. Public lecture, Four Corners Lecture Series, Cortez, Colorado. Invited by the Hisatsinom Chapter of the Colorado Archaeological Society. 4 August 2015.

**Bocinsky, R. Kyle**, Keith Kintigh, Timothy Kohler, Bertram Ludäscher, Ann Kinzig, Carla Van West, Margaret Nelson, Adam Brin, Sarah Oas, Johnathan Rush, Timothy McPhillips, and Yang Cao

2015 Toward Effective Cyber-Infrastructure Support of Socio-Environmental Research. In symposium, *The Robustness and Vulnerability of Food Production and Social Change: An Evaluation of Interdisciplinary Concepts Using Archaeological Data, Models, and Ethnographic Observations*. Society for American Archaeology, 80<sup>th</sup> Annual Meeting, San Francisco, California.

Van Dyke, Ruth, **R. Kyle Bocinsky**, and Tucker Robinson

2015 Friends in High Places: Windes, Shrines, and Lines of Sight. In symposium, *It's About Time: Contributions in Honor of Thomas C. Windes*. Society for American Archaeology, 80<sup>th</sup>

Annual Meeting, San Francisco, California.

Kohler, Timothy A., Stefani A. Crabtree, and **R. Kyle Bocinsky**

2015 The Effects of Temporal Coarse-Graining on Inferred Networks of Human Movement. In symposium, *The Short and Long of It: Combining Timescales*. Society for American Archaeology, 80<sup>th</sup> Annual Meeting, San Francisco, California.

Crabtree, Stefani A., **R. Kyle Bocinsky**, and Timothy A. Kohler

2015 Alliances, Coalitions, Hierarchies and Conflict in the Ancestral Pueblo World. In symposium, *Simulating Social Complexity to Understand the Archaeological Past*. Society for American Archaeology, 80<sup>th</sup> Annual Meeting, San Francisco, California.

McPhillips, Timothy, Tianhong Song, Tyler Kolisnik, Steve Aulenbach, Khalid Belhajjame, **R. Kyle Bocinsky**, Yang Cao, Fernando Chiriga, Saumen Dey, Juliana Freire, Deborah Huntzinger, Christopher Jones, David Koop, Paolo Missier, Mark Schildhauer, Christopher Schwalm, Yaxing Wei, James Cheney, Mark Bieda, and Bertram Ludäscher

2015 YesWorkflow: A User-Oriented, Language-Independent Tool for Recovering Workflow Information from Scripts. 10<sup>th</sup> International Digital Curation Conference, London.

Crabtree, Stefani A., **R. Kyle Bocinsky**, and Timothy A. Kohler

2014 Modeling Emergence of Complex Groups on Realistic Landscapes. In symposium, *Principles of Complexity: Life, Scale, and Civilization III*. Santa Fe Institute, Santa Fe, New Mexico. August.

**Bocinsky, R. Kyle**, Kurt F. Anschultz, Jesse Clark, and Timothy A. Kohler

2014 A General Spatial Reconstruction of Potential Maize Paleoproductivity, AD 600–2000. In symposium, *Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming Societies in the Northern San Juan and the Northern Rio Grande*. Society for American Archaeology, 79<sup>th</sup> Annual Meeting, Austin, Texas.

Kohler, Timothy A., Kelsey M. Reese, Stefani A. Crabtree, **R. Kyle Bocinsky**, and Brian M. Kemp

2014 Prolegomenon: VEP II, Almost in Retrospect. In symposium, *Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming Societies in the Northern San Juan and the Northern Rio Grande*. Society for American Archaeology, 79<sup>th</sup> Annual Meeting, Austin, Texas.

Crabtree, Stefani A., Timothy A. Kohler and **R. Kyle Bocinsky**

2014 The Development of Social Groups, Leadership and Inequality in the Central Mesa Verde. In symposium, *Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming Societies in the Northern San Juan and the Northern Rio Grande*. Society for American Archaeology, 79<sup>th</sup> Annual Meeting, Austin, Texas.

Conway, Meagan and **R. Kyle Bocinsky**

2014 Household and Community Scales of Post-Famine Demographic Change in Western Ireland. In symposium, *The Archaeology of the Irish Famine: Exploring Lasting Effects on Local, Regional, and Transatlantic Scales*. Society for American Archaeology, 79<sup>th</sup> Annual Meeting, Austin, Texas.

**Bocinsky, R. Kyle**

2013 Pueblo II and the Turkey Taboo: Changing Attitudes Towards Domesticated Turkeys in the Puebloan Southwest. In symposium, *Food: It's What's for Dinner*. American Anthropological Association, 2013 Annual Meeting, Chicago, Illinois.

Kohler, Timothy A., **R. Kyle Bocinsky**, Stefani A. Crabtree, Andrew Hlynka, Lokesh Patil, Paul Lovell Hooper and Ziad Kobti

2013 Leadership, Territoriality and Conflict in an Agentized Pueblo World. In symposium, *Complex-systems Approaches to Long-term Change*. American Anthropological Association, 2013 Annual Meeting, Chicago, Illinois.

**Bocinsky, R. Kyle**

2013 "Free nights and weekends" in the AD 1000s? Prehistoric visual communication systems and the influence of infrastructure on modern social network formation. In lecture series, *Reckless Ideas*. Santa Fe Institute, Santa Fe, New Mexico. August 23, 2013.

**Bocinsky, R. Kyle**

2013 The Data Are the Context: A Student's Perspective on the Colorado Contexts, Old and New. In symposium, *Updating the 1999 Colorado Prehistoric Contexts: How a Digital Research Context for Southwestern Colorado Could Be Organized and Assembled*. Colorado Council of Professional Archaeologists, 35th Annual Conference, Denver, Colorado.

**Bocinsky, R. Kyle**

2013 The Defensive Coast. In general session, *Landscapes and Spatial Analysis: Global Case Studies*. Society for American Archaeology, 78<sup>th</sup> Annual Meeting, Honolulu, Hawaii. Winner of the 2013 R.E. Taylor Student Poster Award from the Society for Archaeological Sciences.

Reese, Kelsey M., **R. Kyle Bocinsky**, Donna M. Glowacki, Scott G. Ortman and Timothy A. Kohler

2013 What Are Communities, Really? In symposium, *New Directions in Modeling Dynamics for Coupled Social-Natural Systems*. Society for American Archaeology, 78<sup>th</sup> Annual Meeting, Honolulu, Hawaii.

**Bocinsky, R. Kyle**

2013 Why Landscapes Matter: Inferring Defensiveness around the Salish Sea. In symposium, *Why Salish Sea Archaeology Matters: Current Perspectives from Washington State University*. 66<sup>th</sup> Annual Northwest Anthropological Conference, Portland, Oregon.

**Bocinsky, R. Kyle**

2012 Simulating Archaeological Landscapes using the RePAST Agent Based Modeling Framework. In invited colloquium, Institute of Archaeology and Museology, Faculty of Arts, Masaryk University, Brno, Czech Republic.

**Bocinsky, R. Kyle** and Timothy A. Kohler

2012 Suboptimal Foraging Theory (It's the Best). In symposium, *Socionatural Systems in the Northern U.S. Southwest: A Village Ecodynamics Project II Progress Report*. Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee.

Kohler, Timothy A. and **R. Kyle Bocinsky**

2012 Highly Variable Temperatures in the Northern Hemisphere over the Last Two Millennia: Reconstructions and Possible Effects on Native American Agricultural Systems. In symposium, *What Role did Changing Temperatures Play in the Success of North American Farming Societies in the Last Prehispanic Millennium?* Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee.

Newbold, Bradley, **R. Kyle Bocinsky**, William D. Lipe, Phil R. Geib and Brian M. Kemp

2012 Revising Early Turkey Domestication in the Southwest. In general session, *Archaeology of the Ancestral Puebloans and Paquime*. Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee.

Reese, Kelsey M., **R. Kyle Bocinsky**, Kay E. Barnett, Stefani A. Crabtree and Elise Alonzi

2012 Large, Aggregated Villages in Little Soda Canyon. In general session, *Southwest*. Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee.

**Bocinsky, R. Kyle** and Timothy A. Kohler

2011 Toward [Re]Constructing An Archaeological Legacy of Hunting On the Colorado Plateau. In Evolutionary Anthropology Society invited symposium, *Lasting Legacies and Changing Tides in Human Behavioral Ecology*. American Anthropological Association, 2011 Annual Meeting, Montreal, Quebec, Canada.

- Bocinsky, R. Kyle**, Brian Chisholm and Brian M. Kemp  
2011 Basketmaker III Turkey Use: Multiple Lines of Evidence. In symposium, *The Cedar Mesa Project Turns 40: New Results from a Long-Lived Study in SE Utah*. Society for American Archaeology, 76<sup>th</sup> Annual Meeting, Sacramento, California.
- Newbold, Bradley, **R. Kyle Bocinsky**, Brian M. Kemp and Phil R. Geib  
2011 Ancient Domestic Turkeys at Atlatl Rock Cave. In general session, *Animal Domesticates in the Americas*. Society for American Archaeology, 76<sup>th</sup> Annual Meeting, Sacramento, California.
- Crabtree, Stefani A., Ziad Kobti, Timothy A. Kohler and **R. Kyle Bocinsky**  
2011 Archaeology Time Machine: Witnessing Social Interactions on the Pueblo Landscape through Agent-based Simulation. In symposium, *Mapping and Technological Experiments in Archaeology*. Society for American Archaeology, 76<sup>th</sup> Annual Meeting, Sacramento, California.
- Kohler, Timothy A., **R. Kyle Bocinsky**, Stefani A. Crabtree and Denton Cockburn  
2011 The Village Ecodynamics Project: Modeling the Deep Pueblo Past. In symposium, *Modeling Across Millennia: Interdisciplinary Paths to Ancient Socionatural Systems*. 177<sup>th</sup> AAAS Annual Meeting, Washington, D.C.
- Barron, Doug, **R. Kyle Bocinsky**, Dan Grunspan, Bradley Newbold, Darryl Trumbo and Bryan Roosien  
2011 Mapping the Memetics Meme: Toward a better understanding of the transmission and evolution of scientific concepts. In IGERT Program in Evolutionary Modeling seminar, Washington State University, Pullman, Washington.
- Barron, Doug, **R. Kyle Bocinsky**, Dan Grunspan, Bradley Newbold, Darryl Trumbo and Bryan Roosien  
2010 GroupAge: An agent-based framework for exploring the interaction of social learning, mate choice, and group dynamics. In IGERT Program in Evolutionary Modeling seminar, Washington State University, Pullman, Washington.
- Bocinsky, R. Kyle**, Breanne M. Nott and Brian M. Kemp  
2010 Plop! Jump-starting the brown revolution in archaeology. In symposium, *The Village Ecodynamics Project II*. Society for American Archaeology, 75<sup>th</sup> Annual Meeting, St. Louis, Missouri.
- Glowacki, Donna M., Charles A. Reed, **R. Kyle Bocinsky**, Shanna Diederichs and Julie Bell  
2010 Making sense of the actual: Settlement trends in the southwestern Colorado VEP study areas. In symposium, *The Village Ecodynamics Project II*. Society for American Archaeology, 75<sup>th</sup> Annual Meeting, St. Louis, Missouri.
- Reed, Charles A., Ryan Lash and **R. Kyle Bocinsky**  
2010 An Ancestral Puebloan Community in Morefield Canyon, Mesa Verde National Park. In general session, *What's New in Southwestern Archaeology?* Society for American Archaeology, 75<sup>th</sup> Annual Meeting, St. Louis, Missouri.
- Bocinsky, R. Kyle**  
2009 In the land of plenty: Agent-based approaches to modeling subsistence in the Puebloan Southwest. In South Carolina Institute of Archaeology and Anthropology seminar, *From Field to Table: Historical Ecology of Regional Subsistence Strategies*. University of South Carolina, Columbia, South Carolina.
- Bocinsky, R. Kyle**  
2009 Village Evolving: New directions in VEP research. In NSF Office of Polar Programs: Arctic Social Sciences sponsored conference, *Global Long Term Human Ecodynamics*. Eagle Hill, Maine.

**Bocinsky, R. Kyle**

2009 Understanding and modeling turkey use in the American Southwest: A preliminary simulation module for RePAST. In general session, *General New World and Methods*. Society for American Archaeology, 74<sup>th</sup> Annual Meeting, Atlanta, Georgia.

**Bocinsky, R. Kyle, Terrence Martin and Mark A. Schurr**

2008 Rodent Stable Carbon-isotope Ratios as a Measure of Maize Production. In general session, *Methods and Advances in Zooarchaeology*. Society for American Archaeology, 73<sup>rd</sup> Annual Meeting, Vancouver, British Columbia, Canada.

**Forum***Out in the Field: Queer Experiences and Challenges in Archaeology*

2014 Moderator and organizer. Society for American Archaeology, 80<sup>th</sup> Annual Meeting, San Francisco, California.

*Error, Sensitivity Analysis, and Uncertainty in Archaeological Computational Modeling*

2014 Moderated by Marieka Brouwer Burg. Society for American Archaeology, 79<sup>th</sup> Annual Meeting, Austin, Texas.

**Research & Travel Grants***Toward Cultural Models of the Development of Ancestral Maize Landraces*

2014 Graduate & Professional Student Association, Washington State University, \$375

*Understanding and modeling turkey use in the American Southwest: A preliminary model for RePAST*

2009 Graduate & Professional Student Association, Washington State University, \$390

*Archaeological Field School with Brooklyn College, City University of New York*

2007 Undergraduate Research Opportunity Program, University of Notre Dame, \$1,000

2007 Glynn Family Honors Program, University of Notre Dame, \$1,500

2007 Learning Beyond the Classroom Grant, University of Notre Dame, \$711

*The similarity of treatment needs between the chemically addicted and HIV+ populations: Emphasizing relationships*

2007 Undergraduate Research Opportunity Program, University of Notre Dame, \$1,000

2006 Americorps Service Grant, \$1,000

**Additional Training***Beyond Archaeology—Realities of Cultural Resource Management*

2013 Participant in seminar presented by the Confederated Tribes of the Colville Reservation History/Archaeology Program. October 4–5, 2013, Pullman, Washington.

**Teaching****Washington State University, Pullman, Washington**

Fall 2015 Co-instructor, *ANTH 600: Exploratory Data Analysis in R*, 3 credits, graduate

Using graphical and numeric computational methods to explore different types of data, including survey, experimental, textual, spatial, and network data

Fall 2014 Instructor, *ANTH 101: General Anthropology*, 3 credits, 90 students

An introduction to the four fields of anthropology

Spring 2013 Instructor, *ANTH 490: Themes in Anthropology*, 3 credits, 15 students

The capstone seminar in the anthropology major at WSU; a review of important themes in anthropological thought and several controversial issues in anthropology

Spring 2012 Instructor, *ANTH 331: The Americas Before Columbus*, 3 credits, 40 students

A review course covering North and South American prehistory, and emphasizing model-based approaches in archaeology



## Academic Service

Organized Forum, *Out in the Field: Queer Experiences and Challenges in Archaeology*  
2012 Organizer, Society for American Archaeology, 80<sup>th</sup> Annual Meeting, San Francisco, California

Organized Symposium, *What Role did Changing Temperatures Play in the Success of North American Farming Societies in the Last Prehispanic Millennium?*  
2012 Chair, Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee

*National Science Foundation IGERT.org Trainee Advisory Board.*  
2011–2012 Board member, The National Science Foundation and TERC

*Exploratory Meeting for the Creation of an LGBT Archaeologists Interest Group.*  
2010 Organizer, Society for American Archaeology, 75<sup>th</sup> Annual Meeting, St. Louis, Missouri

*Organized Symposium, The Village Ecodynamics Project II.*  
2010 Co-organizer, Society for American Archaeology, 75<sup>th</sup> Annual Meeting, St. Louis, Missouri

*Anthropology Graduate Organization, Department of Anthropology, Washington State University*  
2013 Co-organizer, Interdisciplinary Research in Anthropology and the Sciences Conference  
2011 Chair, Banquet Committee  
2009 Chair, Lipe Scholar Committee  
2008–2009 President

## Public Service

**Memorial Hospital**, South Bend, Indiana  
Spring 2007 Patient Liaison  
Facilitated communication between patients, nurses, and doctors in the Emergency Department

**Liberty Resources**, Syracuse, New York  
Summer 2006 Student Intern  
Volunteered at two facilities for people with HIV; coordinated health screenings; helped manage a transitional living facility for homeless people with HIV

## Computer Experience

*Statistical Packages:* R, SAS, Stata  
*Languages:* R/S, Java, Python, Bash, C++, Objective C  
*Applications:* MS Office, ArcGIS, GRASS GIS, QGIS, Adobe Illustrator, Final Cut Pro, L<sup>A</sup>T<sub>E</sub>X  
*Agent Based Modeling Frameworks:* RePAST (J, S), Swarm  
*Version Control:* Subversion, Git  
*Operating Systems:* Mac OS X, Windows, Ubuntu Linux

## Professional Affiliations

*American Association for the Advancement of Science*, 2014–present  
*Society for American Archaeology*, 2007–present  
*American Anthropological Association*, 2007–present  
*Society for Archaeological Science*, 2013–present  
*Evolutionary Anthropology Society*, 2011–present