

R. Kyle Bocinsky, PhD

Contact Information

240 SE Pioneer St
Pullman, WA 99163

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phone 770.362.6659
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Research Interests

Computational archaeology; complexity; GIS; cyber-infrastructures; southwestern US prehistory; paleoenvironments and human dimensions of climate change; 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

Glynn Family Honors Program, 2004–2008

BA, Anthropology, May 2008

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

Advisor: Mark Schurr

Appointments

Crow Canyon Archaeological Center, Cortez, Colorado

Jan 2017–Present Research Associate

Jan 2016–Dec 2016 Director of Sponsored Projects, Research Institute

Washington State University, Pullman, Washington

Jan 2016–Present Adjunct Research Faculty, Department of Anthropology

Jan 2015–Dec 2015 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, & Grants

Co-PI, Developing and Deploying SKOPE—

A resource for Synthesizing Knowledge of Past Environments

2016–2020 National Science Foundation special competition, *Resource Implementations for Data Intensive Research in the Social Behavioral and Economic Sciences* (SMA-1347973).

Part of a collaborative research grant between Washington State University, Arizona State University, and the University of Illinois at Urbana-Champaign.

\$254,189 awarded to WSU/CCAC, \$1,339,658 total.

Cordell Prize

2015 Pecos Conference—awarded for the best extemporaneous talk presented by an archaeologist 35 years of age or younger, \$500

NSF 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

R.E. Taylor Student Poster Award

2013 Society for Archaeological Science, \$100

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

Elaine Burgess Graduate Fellowship in Anthropology

2011 Department of Anthropology, Washington State University, \$1,000

Nicholas Michael Scoales Scholarship in Archaeology

2009 Department of Anthropology, Washington State University, \$1,000

**Peer-reviewed
Articles**

- Crabtree, Stefani A., **R. Kyle Bocinsky**, Paul L. Hooper, Susan C. Ryan, and Timothy A. Kohler
2017 How to make a polity (in the central Mesa Verde region). *American Antiquity* 82(1):71–95.
- d'Alpoim Guedes, Jade, Stefani A. Crabtree, **R. Kyle Bocinsky**, and Timothy A. Kohler
2016 21st century approaches to ancient problems: Climate and society. *Proceedings of the National Academy of Sciences* 113(51):14483–14491. [html]
- d'Alpoim Guedes, Jade, Sturt Manning, and **R. Kyle Bocinsky**
2016 A 5,500-year model of changing crop niches on the Tibetan Plateau. *Current Anthropology* 57(4):6 pages. [pdf]
- Van Dyke, Ruth M., **R. Kyle Bocinsky**, Tucker Robinson, and Thomas C. Windes
2016 Great houses, shrines, and high places: Intervisibility in the Chacoan World. *American Antiquity* 81(2):205–230. [pdf]
- Bocinsky, R. Kyle**, Johnathan Rush, Keith W. Kintigh, and Timothy A. Kohler
2016 Exploration and exploitation in the macrohistory of the pre-Hispanic Pueblo Southwest. *Science Advances* 2(4):e1501532. [html]
- Schwindt, Dylan M., **R. Kyle Bocinsky**, Scott G. Ortman, Donna M. Glowacki, Mark D. Varien, and Timothy A. Kohler
2016 The social consequences of climate change in the Central Mesa Verde region. *American Antiquity* 81(1):74–96. [pdf]
- Lipe, William D., **R. Kyle Bocinsky**, Brian S. Chisholm, Robin Lyle, David M. Dove, RG Matson, Elizabeth Jarvis, Kathleen Judd, and Brian M. Kemp
2016 Cultural and genetic contexts for early turkey domestication in the northern Southwest. *American Antiquity* 81(1):97–113. [pdf]
- 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

- Kohler, Timothy A. and **R. Kyle Bocinsky**
 2017 Crises as opportunities for culture change. In *Crisis to Collapse: The Archaeology of Social Breakdown*, edited by Tim Cunningham and Jan Driessen, pp. 263–273. Presses Universitaires de Louvain, Louvain, France.
- ***Bocinsky, R. Kyle** and Timothy A. Kohler
 2016 Complexity, rigidity, and resilience in the Ancient Puebloan Southwest. In *Viewing the Future in the Past: Historical Ecology Applications to Environmental Issues*, edited by H. Thomas Foster, II, Lisa Paciulli, and David Goldstein. pp. 86–105. 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, pp. 145–152. 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 Eco-dynamics World. In *Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology*, edited by T.A. Kohler, and M.D. Varien, pp. 129–144. 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, pp. 153–164. 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

Bocinsky, R. Kyle and Mark D. Varien
In review. How to make a polity (in the central Mesa Verde region). *Ethnobiology*.

Kohler, Timothy A., Stefani A. Crabtree, **R. Kyle Bocinsky**, and Paul L. Hooper
In review. Modeling Sociopolitical Evolution in Prehispanic Pueblo Societies. In *Complexity and Society: An Introduction to Complex Adaptive Systems and Human Society*, edited by Jeremy A. Sabloff et al. Submitted to Princeton University Press, Princeton, New Jersey. [pdf]

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
2017 *FedData: Functions to Automate Downloading Geospatial Data Available from Several Federated Data Sources*. R package version 2.4.1. [http].

Bocinsky, R. Kyle
2017 *paleocar: Paleoclimate Reconstruction from Tree Rings using Correlation Adjusted correlation*. R package version 3.3.0. [http]

Research & Field Experience

Crow Canyon Archaeological Center, Cortez, Colorado
2016–Present Researcher, The Pueblo Farming Project
Data analysis of eight years of experimental maize gardening with Hopi farmers; funded by Colorado SHF grant 15-02-025

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

Washington State University, Pullman, Washington
 2015–Present Post-doctoral Researcher, then Co-PI, *Synthesizing Knowledge of Past Environments*
 Cyber-infrastructure design and development, and paleoenvironmental modeling; funded by NSF grants BCC-1439603 and SMA-1347973

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

Santa Fe Institute, Santa Fe, New Mexico
 Summer 2013 Visiting Researcher
 Developed a new module for the VEP 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

Varién, Mark. D and **R. Kyle Bocinsky**
 2016 The Pueblo Farming Project: Investigating the Agrarian Ecology of the Mesa Verde Region. In symposium, *First Farmers, First Farms: Landscape Ecology of the Early Neolithic*. Society of Ethnobiology, 39th Annual Conference, Tucson, Arizona.

Bocinsky, R. Kyle and Adam Brin
 2016 SKOPE: Bringing Continent-scale, Local Paleoenvironmental Data to Researchers and the Public. In symposium, *What Do We Mean by "Digital Curation?"* Society for American Archaeology, 81st Annual Meeting, Orlando, Florida.

d'Alpoim Guedes, Jade, Sturt Manning, and **R. Kyle Bocinsky**
 2016 5500 Years of Changing Crop Niches on the Tibetan Plateau. In symposium, *Guava Cat Archaeology: Papers in Memory of Prof. Pochan Chen*. Society for American Archaeology, 81st Annual Meeting, Orlando, Florida.

Ellyson, Laura, Timothy Kohler, and **R. Kyle Bocinsky**
 2016 Evaluation of the Village Ecodynamics Hunting and Domestication Models. In general session, *Southwestern Archaeology*. Society for American Archaeology, 81st Annual Meeting, Orlando, Florida.

- Van Dyke, Ruth M., **R. Kyle Bocinsky**, Tucker Robinson, and Thomas C. Windes
2016 Great houses, shrines, and high places: Intervisibility across the Chacoan World. 2016 Navajo Nation Archaeology Meeting, Shiprock, New Mexico. 4 March 2016.
- Bocinsky, R. Kyle**, Jade d'Alpoim Guedes, Karen Adams, Rob Quinlan, Mark Caudell, and Timothy A. Kohler
2016 Can Pueblo Corn Save Ethiopian Farms? Deploying 1,400 Years of Agricultural Knowledge in Service of the Future. In symposium, *Engaged Archaeology through Transnational, Interdisciplinary, and Indigenous Collaborations*. 15th Biennial Southwest Symposium, Tucson, Arizona.
- Schwindt, Dylan M., **R. Kyle Bocinsky**, Scott G. Ortman, Donna M. Glowacki, Mark D. Varien, and Timothy A. Kohler
2016 Interactions among society, climate, production, and population: A case study from the central Mesa Verde region with contemporary implications. In symposium, *Engaged Archaeology through Transnational, Interdisciplinary, and Indigenous Collaborations*. 15th Biennial Southwest Symposium, Tucson, Arizona.
- Bocinsky, R. Kyle**
2015 What is the Pecos System, Anyway? 2015 Pecos Conference, Mancos, Colorado. Winner of the 2015 Cordell Prize.
- 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, 80th 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, 80th 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, 80th 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, 80th 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. 10th 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, 79th 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, 79th 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, 79th 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, 79th 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, 78th 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, 78th 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*. 66th 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, 77th 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, 77th 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, 77th 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, 77th 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, 76th 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, 76th 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, 76th 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*. 177th 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, 75th 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, 75th 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, 75th 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, 74th 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, 73rd Annual Meeting, Vancouver, British Columbia, Canada.

Forum

Error, Sensitivity Analysis, and Uncertainty in Archaeological Computational Modeling

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

Outreach & Press

Origins: The Journey of Humankind

Featured expert. The National Geographic Channel. Featured in an episode on shelter. Series begins airing March 6, 2017. <http://channel.nationalgeographic.com/origins-the-journey-of-humankind/>.

Farming Corn in the Past, Present, and Future

Public lecture. In Smithsonian Associates Weekend Program: *Vanished! Behind the Mystery of Mesa Verde*, S. Dillon Ripley Center, Washington, DC. 21 May 2016.

Exploration and exploitation in the macrohistory of the pre-Hispanic Pueblo Southwest

Popular article

- Do prehistoric Pueblo populist revolutions presage American politics today? Kyle Bocinsky and Tim Kohler, *The Conversation*. 6 April 2016. [html]

Press coverage

- Climate and the Collapse of Ancient Civilizations. Interview on NPR's *Science Friday*. 8 April 2016. [html]
- From drought, seeds of discontent. Staci Matlock, *Santa Fe New Mexican*. 31 March 2016. [html]
- Social collapse in ancient Pueblo civilization linked to climate change. Hannah Osborne, *International Business Times*. 1 April 2016. [html]
- Researchers: Four Corners pueblo culture sensitive to climate. Emery Cowan, *Arizona Daily Sun*, Flagstaff, Arizona. 10 April 2016. [html]

Can Pueblo Corn Save Ethiopian Farms? Employing 1,400 Years of Agricultural Knowledge in Service of the Future

Public lecture

- Southwest Seminar, Santa Fe, New Mexico. 25 July 2016.
- Arizona Archaeological and Historical Society, Tucson, Arizona. 18 January 2016.
- Four Corners Lecture Series, Cortez, Colorado. Invited by the Hisatsinom Chapter of the Colorado Archaeological Society. 4 August 2015.

FedData: Functions to Automate Downloading Geospatial Data Available from Several Federated Data Sources

Blog coverage

- Using the new R package, FedData, to access federal open datasets (including interactive graphics). ZevRoss. 15 March 2016. [html]

**Travel &
Training Grants**

Toward Cultural Models of the Development of Ancestral Maize Landraces

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

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

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

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

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

2007 Travel grant, 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 Travel grant, 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

Edited Section, *First Farmers, First Farms: Landscape Ecology of the Early Neolithic*
2017 Guest editor, *Journal of Ethnobiology*

Organized Forum, *Archaeologies of Inclusion: Towards a Politics of Engagement*
2016 Organizer, Society for American Archaeology, 81st Annual Meeting, Orlando, Florida

Organized Forum, *Out in the Field: Queer Experiences and Challenges in Archaeology*
2015 Organizer, Society for American Archaeology, 80th 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, 77th 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, 75th Annual Meeting, St. Louis, Missouri

Organized Symposium, The Village Ecodynamics Project II.
2010 Co-organizer, Society for American Archaeology, 75th 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

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| Computer Experience | <i>Statistical Packages:</i> R, SAS, Stata <i>Languages:</i> R, Java, Python, Bash, C++, Objective C <i>Applications:</i> ArcGIS, GRASS GIS, QGIS, MS Office, Adobe Illustrator, Final Cut Pro, L ^A T _E X <i>Web Frameworks:</i> Bootstrap, Jekyll, Liquid, Shiny, GH-Pages <i>Agent Based Modeling Frameworks:</i> RePAST (J, S), Swarm <i>Version Control:</i> Git, Subversion <i>Operating Systems:</i> macOS, Windows, Ubuntu Linux | | |
| Professional Affiliations | <i>American Association for the Advancement of Science</i> <i>Society for American Archaeology</i> <i>American Anthropological Association</i> <i>Society for Archaeological Science</i> <i>Evolutionary Anthropology Society</i> | | |
| References | <p>Timothy A. Kohler Department of Anthropology Washington State University Pullman, WA 99164-4910</p> <p>Mark D. Varien Crow Canyon Archaeological Center 23390 County Road K Cortez, CO 81321</p> <p>Jade d'Alpoim Guedes Department of Anthropology Washington State University Pullman, WA 99164-4910</p> <p>Donna M. Glowacki Department of Anthropology University of Notre Dame Notre Dame, IN 46556</p> <p>William D. Lipe Department of Anthropology Washington State University Pullman, WA 99164-4910</p> <p>Shanna R. Diederichs Crow Canyon Archaeological Center 23390 County Road K Cortez, CO 81321-9408</p> <p>Keith W. Kintigh School of Human Evolution and Social Change Arizona State University Tempe, AZ 85287-2402</p> <p>Ian Kuijt Department of Anthropology University of Notre Dame Notre Dame, IN 46556</p> | | |
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