# R. Kyle Bocinsky, PhD, RPA

Contact Information	111 High Park Way Missoula, MT 59803		phone email web	770.362.6659 bocinsky@gmail.com http://www.bocinsky.io/	
Research Interests	Computational social science; human dimensions of climate change; paleo-environments; complex systems; plant and animal domestication; southwestern US prehistory; reproducibility				
Education	Washington State University, Pullman, Washington PhD, Anthropology, December 2014 Dissertation title: <i>Landscape-based Null Models for Archaeological Inference</i> [pdf] Committee: Timothy Kohler (chair), Jade d'Alpoim Guedes, Andrew Duff, and Colin Grier				
	the Colorado Platea	ird in Hand Really Worth Two in the Bush? Models of Domestication on			
	University of Notre Dame Glynn Family Honors F BA, Anthropology, May Thesis title: <i>Roden</i> Advisor: Mark Schu	Program, 2004–2008 y 2008 t Stable Carbon-isotope Ratios as a Measure of Maize Production			
Appointments	<b>University of Montana</b> , № Jan 2018–Present	Aissoula, Montana Research Associate, Montana Climate Office, W.A. Franke College of Forestry and Conservation			
	Desert Research Institute June 2017–Present	<b>e</b> , Reno, Nevada Hourly Assistant Research Professor, Division of Earth and Ecosystem Sciences			
	Crow Canyon Archaeolog Jan 2017–Present Jan 2016–Dec 2016	ogical Center, Cortez, Colorado Research Associate, Research Institute Director of Sponsored Projects, Research Institute			
	Washington State Univer Jan 2016–Present Jan 2015–Dec 2015 Aug 2014–Dec 2014 Aug 2009–Jul 2014 Aug 2008–Jul 2009	Adjunct Research Post-doctoral Res Teaching Assista Research Fellow,	n Faculty searcher, nt, Depa Departm	r, Department of Anthropology ; Department of Anthropology rtment of Anthropology nent of Anthropology ırtment of Anthropology	
Honors, Awards, & Grants	2016–2020 National Data Intensive Researc Part of a collaborative versity, and the Univers \$254,189 awarded to V	<b>Eing Knowledge of Past Environments</b> Science Foundation special competition, <i>Resource Implementations for</i> <i>ch in the Social Behavioral and Economic Sciences</i> (SMA-1347973). research grant between Washington State University, Arizona State Uni- sity of Illinois at Urbana-Champaign. WSU/CCAC, \$1,339,658 total.			

	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	Kohler, Timothy A., Stefani A. Crabtree, <b>R. Kyle Bocinsky</b> , and Paul L. Hooper In press. Modeling Sociopolitical Evolution in Prehispanic Pueblo Societies. In <i>Complexity and</i> <i>Society: An Introduction to Complex Adaptive Systems and Human Society</i> , edited by Jeremy A. Sabloff et al. SFI Press, Santa Fe, New Mexico. [pdf]			
	Grimstead, Deanna N., Matthew C. Pailes, and <b>R. Kyle Bocinsky</b> 2017 Refining potential source regions via combined maize niche modeling and isotopes: A case study from Chaco Canyon, NM, USA. <i>Journal of Archaeological Method and Theory</i> . On- line first, 27 pages. DOI: 10.1007/s10816-017-9359-6. [html]			
	d'Alpoim Guedes, Jade and <b>R. Kyle Bocinsky</b> 2017  A reply to Bellezza. <i>Current Anthropology</i> 58(4):539–539. [html]			
	Bocinsky, R. Kyle and Mark D. Varien 2017 Calibrating Maize Paleoproduction Models using Experimental Data. <i>Ethnobiology</i> 37(2):282– 307.			
	Gillreath-Brown, Andrew and <b>R. Kyle Bocinsky</b> 2017 A Dialogue Between Empirical and Model-Based Agricultural Studies in Archaeology. <i>Ethnobiology</i> 37(2):167–171.			
	Crabtree, Stefani A., <b>R. Kyle Bocinsky</b> , Paul L. Hooper, Susan C. Ryan, and Timothy A. Kohler 2017 How to make a polity (in the central Mesa Verde region). <i>American Antiquity</i> 82(1):71– 95.			
	d'Alpoim Guedes, Jade, Stefani A. Crabtree, <b>R. Kyle Bocinsky</b> , and Timothy A. Kohler 2016 21 <sup>st</sup> century approaches to ancient problems: Climate and society. <i>Proceedings of the</i> <i>National Academy of Sciences</i> 113(51):14483–14491. [html]			
	d'Alpoim Guedes, Jade, Sturt Manning, and <b>R. Kyle Bocinsky</b> 2016 A 5,500-year model of changing crop niches on the Tibetan Plateau. <i>Current Anthropol-</i> ogy 57(4):6 pages. [pdf]			
	Van Dyke, Ruth M., <b>R. Kyle Bocinsky</b> , Tucker Robinson, and Thomas C. Windes 2016 Great houses, shrines, and high places: Intervisibility in the Chacoan World. <i>American</i> <i>Antiquity</i> 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. <i>Science Advances</i> 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 <i>Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archae- ology</i> , edited by T.A. Kohler, and M.D. Varien, pp. 145–152. University of California Press, Berkeley. [pdf]
	*Kohler, Timothy A., <b>R. Kyle Bocinsky</b> , Stefani A. Crabtree and Ben Ford 2012 Supply, Demand, Return Rates, and Resource Depression: Hunting in the Village Eco- dynamics World. In <i>Emergence and Collapse of Early Villages: Models of Central Mesa Verde</i> <i>Archaeology</i> , 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 <b>R. Kyle Bocinsky</b> 2012 Exercising the Model: Settlement Efficiency and Changes in Locational Practice. In <i>Emergence and Collapse of Early Villages: Models of Central Mesa Verde Archaeology</i> , edited by T.A. Kohler, and M.D. Varien, pp. 153–164. University of California Press, Berkeley. [pdf]
Technical Reports	Glowacki, Donna M., <b>R. Kyle Bocinsky</b> , Kelsey M. Reese, and Katherine A. Portman 2017 The Mesa Verde Community Center Survey: Summer 2017. Manuscript submitted to Mesa Verde National Park, on file with Crow Canyon Archaeological Center and the University of Notre Dame.
	Glowacki, Donna M., with contributions by Elise Alonzi, <b>R. Kyle Bocinsky</b> , 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 Archae- ological Center and Washington State University in compliance with deliverable for NSF Grant DEB-0816400. [pdf]
	Glowacki, Donna M. and <b>R. Kyle Bocinsky</b> 2011 The Mesa Verde Community Center Survey: 2011 Progress Report. Manuscript sub- mitted 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., <b>R. Kyle Bocinsky</b> 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	d'Alpoim Guedes, Jade, and <b>R. Kyle Bocinsky</b> In review. Climate change stimulated agricultural innovation and exchange across Asia. <i>Science Advances</i> .
	Bocinsky, R. Kyle and Timothy A. Kohler 2012 A preliminary reconstruction of seasonal growing degree days for North America, AD 1–1979. [pdf]
Software	<b>Bocinsky, R. Kyle</b> 2017 FedData: Functions to Automate Downloading Geospatial Data Available from Several Federated Data Sources. R package version 2.4.5. [http].

	Bocinsky, R. Kyle 2017 paleocar: Paleoclimate Reconstruction from Tree Rings using Correlation Adjusted cor- Relation. 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 <i>Directed by</i> : Shanna Diederichs <i>Location</i> : Montezuma County, Colorado <i>Excavation days</i> : 45		
	Summer 2011 Visiting Researcher Developed a heuristic model of hunting ( <i>heuristic foraging theory</i> ) 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 Environ- ments		
	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 <i>Directed by</i> : Kristin Safi <i>Location</i> : Catron County, New Mexico <i>Survey days</i> : 20		
	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 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 <i>The Principles of Complexity</i>		
	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		
	<ul> <li>Mesa Verde National Park, Mesa Verde, Colorado</li> <li>Summers 2009, 2011, 2012 &amp; 2017 Field Technician, The Mesa Verde Community Center Survey</li> <li>Visited and documented large aggregated villages in MVNP and surrounding area</li> <li><i>Directed by</i>: Donna M. Glowacki</li> <li><i>Location</i>: Montezuma County, Colorado</li> <li><i>Monitoring days</i>: 100 (estimated)</li> </ul>		
	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 <i>Directed by</i> : Scott Demel and Helen Robbins		

#### 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 & Bocinsky, R. Kyle

Poster

2017 "Constraint and Freedom" in the Era of Big Data. In Frison Institute Symposium, *The Future of "Big Data" in Archaeology*. Society for American Archaeology, 82<sup>nd</sup> Annual Meeting, Vancouver, British Columbia, Canada.

#### Lipe, William, Laura Ellyson, R. Kyle Bocinsky, Robin Lyle and R.G. Matson

2017 Costly Gobbling: Raising Turkeys in the Central Mesa Verde Area. In general session, *The Archaeology of Foodways*. Society for American Archaeology, 82<sup>nd</sup> Annual Meeting, Vancouver, British Columbia, Canada.

## d'Alpoim Guedes and R. Kyle Bocinsky

2017 Modeling the Spread of Crops across Eurasia. In Fryxell Award Symposium, *Papers in Honor of Naomi F. Miller*. Society for American Archaeology, 82<sup>nd</sup> Annual Meeting, Vancouver, British Columbia, Canada.

## Varien, 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, 39<sup>th</sup> 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, 81<sup>st</sup> 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, 81<sup>st</sup> 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, 81<sup>st</sup> 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.* 15<sup>th</sup> 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*. 15<sup>th</sup> 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, 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. Anscheutz, 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** Discussant, Aztec at the Crossroads and in the Crosshairs: 101 Years of Research in One Convenient Symposium

2017 Society for American Archaeology, 82<sup>nd</sup> Annual Meeting, Vancouver, British Columbia, Canada

## Discussant, How to do Archaeological Science using R

2017 Society for American Archaeology, 82<sup>nd</sup> Annual Meeting, Vancouver, British Columbia, Canada

Discussant, emphError, 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.

## **Outreach &** Experimental Farming: The Pueblo Farming Project and Beyond

**Public lecture.** In Crow Canyon Research Seminar: *Connecting Mesa Verde and the Rio Grande through the Study of Pueblo Foodways*, New Mexico History Museum, Santa Fe, NM. 22 April 2017.

## Origins: The Journey of Humankind

**Featured expert.** The National Geographic Channel. Featured in Season 1, Episode 6: *Building the Future*. Aired April 17, 2017. [html].

## 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

Press

- 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]

	<ul> <li>Social collapse in ancient Pueblo civilization linked to climate change. Hannah Osborne, International Business Times. 1 April 2016. [html]</li> <li>Researchers: Four Corners pueblo culture sensitive to climate. Emery Cowan, Arizona Daily Sun, Flagstaff, Arizona. 10 April 2016. [html]</li> </ul>
	<ul> <li>Can Pueblo Corn Save Ethiopian Farms? Employing 1,400 Years of Agricultural Knowledge in Service of the Future</li> <li>Public lecture <ul> <li>Southwest Seminar, Santa Fe, New Mexico. 25 July 2016.</li> <li>Arizona Archaeological and Historical Society, Tucson, Arizona. 18 January 2016.</li> <li>Four Corners Lecture Series, Cortez, Colorado. Invited by the Hisatsinom Chapter of the Colorado Archaeological Society. 4 August 2015.</li> </ul> </li> </ul>
	<ul> <li>FedData: Functions to Automate Downloading Geospatial Data Available from Several Federated Data Sources</li> <li>Blog coverage <ul> <li>Using the new R package, FedData, to access federal open datasets (including interactive graphics). ZevRoss. 15 March 2016. [html]</li> </ul> </li> </ul>
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
	<ul> <li>Archaeological Field School with Brooklyn College, City University of New York</li> <li>2007 Travel grant, Undergraduate Research Opportunity Program, University of Notre Dame,</li> <li>\$1,000</li> <li>2007 Travel grant, Glynn Family Honors Program, University of Notre Dame, \$1,500</li> <li>2007 Learning Beyond the Classroom Grant, University of Notre Dame, \$711</li> </ul>
	The similarity of treatment needs between the chemically addicted and HIV+ populations: Empha- sizing 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, 81 <sup>st</sup> Annual Meeting, Orlando, Florida			
	Organized Forum, <i>Out in the Field: Queer Experiences and Challenges in Archaeology</i> 2015 Organizer, Society for American Archaeology, 80 <sup>th</sup> Annual Meeting, San Francisco, Cal- ifornia			
	Organized Symposium, What Role did Changing Temperatures Play in the Success of North Amer- ican 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, Mis- souri			
	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			
Computer Experience	Statistical Packages: R, SAS, Stata Languages: R, Java, Python, Bash, C++, Objective C Applications: ArcGIS, GRASS GIS, QGIS, MS Office, Adobe Illustrator, Final Cut Pro, LATEX Web Frameworks: Bootstrap, Jekyll, Liquid, Shiny, GH-Pages Agent Based Modeling Frameworks: RePAST (J, S), Swarm Version Control: Git, Subversion Operating Systems: macOS, Windows, Ubuntu Linux			
Professional Affiliations	Register of Professional Archaeologists Society for American Archaeology American Anthropological Association American Association for the Advancement of Science			

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References