

# R. Kyle Bocinsky, PhD

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## Contact Information

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## Career Objective

*Utilize my knowledge and management skills to help advance and share knowledge about southwestern archaeology and human-environment interaction through research and public outreach*

## Education

**Washington State University**, Pullman, Washington

PhD, Anthropology, December 2014

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

Graduate GPA: 3.84

MA, Anthropology, May 2011

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

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

BA, Anthropology, May 2008

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

Overall GPA: 3.414. Major GPA: 3.66

## Employment

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

January 2016—present Director of Sponsored Projects, Crow Canyon Research Institute

Develops research collaborations between Crow Canyon archaeologists and external researchers; manages a >\$1 million portfolio of grant-funded research projects; conducts research on ancient agricultural practices

Summer 2012 Field Intern, Basketmaker Communities Project

Excavation and education at the Dillard Site, a Basketmaker III community; Gave public talks on Pueblo prehistory to visitors of all ages. Directed by Shanna Diederichs

**Washington State University**, Pullman, Washington

2015 Post-doctoral Researcher, *Synthesized Knowledge of Past Environments*

Worked to bring paleoenvironmental data to scientists and the general public; collaborated on the development of web mapping services; integrated environmental data with cultural data to gauge impacts of climate change on humans. Directed by Timothy A Kohler

Aug 2008–Dec 2014 Research Fellow, Department of Anthropology

Agent based modeling with the Village Ecodynamics Project; documented and debugged code and expanded study areas; coordinated data storage and delivery among 4 institutions and 16 researchers. Directed by Timothy A Kohler

Fall 2014, Spring 2013, Spring 2012 Instructor, Department of Anthropology

Developed and taught three courses at the undergraduate level; 15–90 students

**Mesa Verde National Park**, Colorado

Summers 2009, 2011, 2012 Field Technician, The Mesa Verde Community Center Survey

Visited and documented large aggregated villages in MVNP; developed iPad-based site-recording workflows integrated with mapping tools in AutoCAD and Adobe Illustrator; Drafted survey final report in L<sup>A</sup>T<sub>E</sub>X. 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**

Aug 2007–May 2008 Research Assistant, Department of Anthropology

Stable isotope analysis of faunal and human remains. Directed by Mark Schurr

**Experience & Achievements**

**Grant Achievements**

- Secured \$180,000 in competitive masters and doctoral funding from the National Science Foundation and Washington State University resources, plus full tuition waivers from WSU for the duration of graduate school
- Secured \$16,800 in research funding from the National Science Foundation in support of travel and materials
- Collaborated in developing proposals with budgets ranging from \$300,000 to \$1.5 million

**Research Collaborations**

- Extensive experience collaborating with large, interdisciplinary teams of researchers from academic, public, and private sectors
- Managed and coordinated data acquisition, storage, and delivery between team members using Subversion and Git repositories with local and cloud-based storage
- Authored 12 peer-reviewed research articles published in journals including *Science*, *Nature Communications*, and *American Antiquity*, four book chapters, three technical reports, and one technical paper

**Software Development**

- Developed two packages in *R*—*FedData* and *PaleoCAR*—for downloading and processing geospatial and climate data from federated data sources
- Packages are being adopted by academic researchers (at Washington State University and Arizona State University) and in the public sector (Natural Resources Conservation Service)
- Lead developer in the *Village Ecodynamics Project*—built agent-based geospatial simulations of ancient Pueblo human-environment interaction using the *RePAST* simulation framework (in the Java computer language)

**Classroom Management**

- Developed curricula and taught three courses at introductory and advanced levels, and managed class sizes ranging between 15 and 90 students
- Emphasized a science-based comparative approach to anthropological research
- Created collaborative assignments designed to enhance leadership, management, and presentation skills among students
- Challenged students to apply anthropological perspectives to real-world problems

**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

<b>Computer Experience</b>	<i>Statistical Packages:</i> R, SAS, Stata <i>Languages:</i> R/S, Java, Python, Bash, C++, Objective C <i>Applications:</i> MS Office, ArcGIS, GRASS GIS, QGIS, Adobe Illustrator, Final Cut Pro, $\text{\LaTeX}$ <i>Agent Based Modeling Frameworks:</i> RePASt (J, S), Swarm <i>Version Control:</i> Subversion, Git <i>Operating Systems:</i> Mac OS X, Windows, Ubuntu Linux		
<b>Professional Affiliations</b>	<i>American Association for the Advancement of Science</i> , 2014–present <i>Society for American Archaeology</i> , 2007–present <i>American Anthropological Association</i> , 2007–present <i>Society for Archaeological Science</i> , 2013–present <i>Evolutionary Anthropology Society</i> , 2011–present		
<b>References</b>	<p><b>Timothy A. Kohler</b>  Department of Anthropology  Washington State University  Pullman, WA 99164-4910</p> <p><b>Jade d'Alpoim Guedes</b>  Department of Anthropology  Washington State University  Pullman, WA 99164-4910</p> <p><b>Scott G. Ortman</b>  Department of Anthropology  University of Colorado, Boulder  Boulder, CO 80309-0233</p> <p><b>William D. Lipe</b>  Department of Anthropology  Washington State University  Pullman, WA 99164-4910</p> <p><b>Mark D. Varian</b>  Crow Canyon Archaeological Center  23390 County Road K  Cortez, CO 81321</p> <p><b>Donna M. Glowacki</b>  Department of Anthropology  University of Notre Dame  Notre Dame, IN 46556</p> <p><b>Shanna R. Diederichs</b>  Crow Canyon Archaeological Center  23390 County Road K  Cortez, CO 81321-9408</p> <p><b>Ian Kuijt</b>  Department of Anthropology  University of Notre Dame  Notre Dame, IN 46556</p>		
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