

# R. Kyle Bocinsky, PhD

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## Contact Information

Crow Canyon Archaeological Center  
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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**

**Cordell Prize**

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

**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

## 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,  $\LaTeX$   
*Web Frameworks:* Bootstrap, Jekyll, Liquid, Shiny, GH-Pages  
*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*  
*Society for American Archaeology*  
*American Anthropological Association*  
*Society for Archaeological Science*  
*Evolutionary Anthropology Society*

## References

### Timothy A. Kohler

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### Jade d'Alpoim Guedes

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### Scott G. Ortman

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### Keith W. Kintigh

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