R. Kyle Bocinsky, PhD

Contact Information

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Career Objective

Utilize my archaeological knowledge and skills in geospatial data management and visualization to better protect, manage, and study the natural resources and cultural heritage of the United States

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

Washington State University, Pullman, Washington
Jan 2015–present Post-doctoral Researcher, *Synthesized Knowledge of Past Environments*
Working to bring paleoenvironmental data to scientists and the general public; collaborating on the development of web mapping services; integrating 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

Crow Canyon Archaeological Center, Cortez, Colorado
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

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 LaTeX. 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

Research Collaborations

- Extensive experience working with large, interdisciplinary teams of researchers from academic, public, and private sectors
- Specialized in coordinating data acquisition, storage, and delivery between team members using Subversion and Git repositories with local and cloud-based storage
- Authored eight peer-reviewed research articles in journals including *Science* and *Nature Communications*, 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 Leadership

- Developed curricula for three courses at introductory and advanced levels, for 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

Computer Experience

Statistical Packages: R, SAS, Stata
Languages: R/S, Java, Python, Bash, C++, Objective C
Applications: GRASS GIS, ArcGIS, QGIS, Adobe Illustrator, AutoCAD, Final Cut Pro, LaTeX
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