

# DARCY BIRD

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## RESEARCH INTERESTS

Complex systems, environmental archaeology, adaptive strategies, human ecology, quantitative archaeology, paleodemography, paleoecology, paleoclimatology.

## EDUCATION

### Washington State University

Ph.D. Anthropology

2019 - Anticipated 2023

Dissertation: *Tipping Points: a Systems Approach*

Committee: Timothy Kohler (chair), Erin Thornton, Ed Hagen, Anne Pisor

### Utah State University

M.S. Archaeology and Cultural Resources Management

2017 - 2019

Thesis: *Subsistence Strategy Tradeoffs in Long-Term Population Stability Over the Past 6,000 Years.*

Committee: Jacob Freeman (Chair), Judson Byrd Finley, Patricia M. Lambert, Erick Robinson

### University of Rochester

B.A. *magna cum laude*

2010 - 2014

Majors: Classics and Archaeology, Technology, & Historical Structures

Thesis: *The Effect of Invasion on Social Complexity: the Dobunni and the Roman Conquest of Britain.*

Advisors: Elizabeth Colantoni (ATHS), Nicholas Gresens (Classics)

## PEER REVIEWED PUBLICATIONS

### *In Review*

2020 Freeman, Jacob, Erick Robinson, Noelle Beckman, **Darcy Bird**, Jacopo A. Baggio and John M. Anderies. *The Global Ecology of Human Population Density and Interpreting Changes in Radiocarbon Time-series.* Journal of Archaeological Science.

Freeman, Jacob, John Anderies, Noelle Beckman, Erick Robinson, Jacopo A. Baggio, **Darcy Bird**, Christopher Nicholson, Judson Finley, Jose Capriles, Adolfo Gil, David A. Byers, Eugenia Gayo, Claudio Latorre. *Testing the tenets of climate-smart agriculture with archaeological records.* Nature Sustainability.

### *In Press*

2020 **Bird, Darcy**, Jacob Freeman, Erick Robinson, Gideon Maughan, Judson Byrd Finley, Patricia M. Lambert, and Robert L. Kelly. *A first empirical analysis of population stability in North America using radiocarbon records.* The Holocene.

Robinson, Erick, R. Kyle Bocinsky, **Darcy Bird**, Jacob Freeman, and Robert L. Kelly. *Dendrochronological dates confirm a Late Prehistoric population decline in the American Southwest derived from radiocarbon dates.* Philosophical Transactions B.

## PROFESSIONAL CONFERENCE PRESENTATIONS

2020 **Bird, Darcy**, R. Kyle Bocinsky, Timothy Kohler. *A Comparative Approach to Paleodemographic Proxies: a Case Study in the Southwest*. Paper presented at the Society for American Archaeology 85th Annual Meeting, Austin, TX, USA. \*

Freeman, Jacob, **Darcy Bird**, Erick Robinson, Jose Capriles, Judson Finley. *Studying the long-term stability of agricultural societies to inform climate-smart agriculture*. Paper presented at the Society for American Archaeology 85th Annual Meeting, Austin, TX, USA. \*

Kohler, Timothy, Daniel Rogers, **Darcy Bird**, Lotte Govaerts. *The Theory of the Adjacent Possible and Settlement Scaling Theory*. Paper presented at the Society for American Archaeology 85th Annual Meeting, Austin, TX, USA. \*

**Bird, Darcy**. *A Comparative Analysis of Population Growth Rates in North America*. Poster presented digitally at the WSU GPSA Research Exposition, Pullman, WA, USA.

2019 Robinson, Erick, R. Kyle Bocinsky, Jacob Freeman, **Darcy Bird**, Robert L. Kelly. *The Role of Edge Effects in Late Holocene Radiocarbon Time-Series*. Paper presented at the Society for American Archaeology 84th Annual Meeting, Albuquerque, NM, USA.

**Bird, Darcy**, Jacob Freeman. *Climate-Human Population Dynamics During the Late Holocene in North America*. Paper presented at the Society for American Archaeology 84th Annual Meeting, Albuquerque, NM, USA.

2018 **Bird, Darcy**, Erick Robinson, Jacob Freeman, Gideon Maughan, and Robert Kelly. *Population Stability in the Great Basin and Across the Globe: a Model on Species Richness*. Poster presented at the 36th Great Basin Anthropological Conference, Salt Lake City, UT, USA.

Robinson, Erick, Jacob Freeman, **Darcy Bird**, Jacopo Baggio, David A. Byers, Eugenia Gayo, Judson Byrd Finley, Jack Meyer, Robert L. Kelly, John M. Anderies. *Solar energy, biodiversity and human population stability during the Holocene*. Paper presented at the 24th Annual Meeting of the European Association of Archaeologists, Barcelona, Spain.

**Bird, Darcy**, Jacob Freeman, and Erick Robinson. *Rates of Change in Radiocarbon Date Frequencies and Population Collapse*. Poster presented at the Society for American Archaeology 83rd Annual Meeting, Washington, DC, USA.

\* Conference cancelled due to SARS-CoV-2 / COVID-19

## OTHER PRESENTATIONS

2019 **Bird, Darcy**. *How to Get a Job in Archaeology*. Presented at Washington State University, 9/25/2019.

2018 **Bird, Darcy.** *Representations of Paleodemography: How to Introduce Dendrochronology to the Conversation.* Brown Bag Talk at Utah State University, 10/17/2018.

**Bird, Darcy,** Audrey Pazmino, Trista Schiele. *How to Get a Job in Archeology! Forest Service Edition.* Presented at Utah State University, 9/13/2018.

## TECHNICAL REPORTS

2019 **Bird, Darcy.** *A History of Greendale: People and Places.* Report prepared for the US Department of Agriculture Forest Service, Ashley National Forest, Vernal, Utah.

## ADDITIONAL TRAINING

2019 **Bayesian Chronological Modeling Workshop.** University of New Mexico, Albuquerque, NM; April 9-10. Led by: Dr. Derek Hamilton & Dr. Tony Krus.

## FUNDING AWARDS

2017-present **Role: Participant.** *Past Global Changes (PAGES) sponsored Scientific Working Group: PEOPLE 3000*, PI: Jacob Freeman, Utah State University. Responsibilities: (1) Contribute to papers and conference sessions (Papers: Bird et al. 2020; Freeman et al. 2020a, 2020b; Robinson et al. 2020; Presentations: Bird et al. 2018, 2019; Bird and Freeman 2019; Robinson et al. 2018, 2019). (2) Build and manage big data infrastructure, including the R code used to process the data (Radiocarbon Database with ~150,000 radiocarbon dates).

## AWARDS, SCHOLARSHIPS, AND GRANTS

2019 Graduate Student Travel Award. Utah State University. **\$700.**  
2018 Great Basin Anthropological Conference Student Poster Award - 3rd Place. **\$100.**  
Graduate Student Travel Award. Utah State University. **\$600.**  
2013 College Year in Athens Award. College Year in Athens. **\$4,000.**  
Americorps Education Award. Americorps. **\$1,420.**  
Rochester Undergraduate Grant. University of Rochester. **\$4,600.**  
2012 Dean's Study Abroad Scholarship. University of Rochester. **\$500.**  
Summer Study in Italy Scholarship. University of Rochester. **\$1000.**  
2010 Prince Street Scholarship. University of Rochester. **\$40,000 over 4 years**  
Rochester National Grant. University of Rochester. **\$85,620 over 4 years**  
Research and Innovation Grant. University of Rochester. **\$3,000.**

## PROFESSIONAL AFFILIATIONS

**Society for American Archaeology** Member, Presenter (2017-present)  
**Great Basin Anthropological Association** Member, Presenter (2016-present)  
**Utah Professional Archaeological Council** Member (2018; 2019)

## RESEARCH AND TEACHING EXPERIENCE

Graduate Research Assistant Washington State University, Anthropology	01/20-present Pullman, WA, USA
Graduate Teaching Assistant ANTH 101 Introduction to Anthropology 3 hours/week, 1 section, 90 students.	08/19 - 12/19 Washington State University Pullman, WA, USA
Graduate Research Assistant Utah State University, Anthropology	08/17 - 05/18; 08/18 - 05/19 Logan, UT, USA
English Teacher Spoken English Class 40 minutes/week, 15 sections, 70 students each.	08/14 - 06/15 忻州一中学 / Xinzhou No. 1 Middle School Xinzhou, Shanxi, China
Workshop Assistant EES 101: Introduction to Geology 3 hours/week, 1 section, 7 students.	08/13 - 12/13 University of Rochester Rochester, NY, USA
Undergraduate Research Assistant University of Rochester, Classics/Mech. Engineering	06/12 - 12/12 Arezzo, Italy; Rochester, NY, USA

## CULTURAL RESOURCE MANAGEMENT AND FIELD EXPERIENCE

Archeology Technician (GS-0102-07) U.S. Forest Service	06/18 - 08/18; 05/19 - 08/19 Vernal, UT, USA
Archeology Technician (GS-0102-07) Bureau of Land Management	05/17 - 08/17 Susanville, CA, USA
Archeology Technician (GS-0102-05) U.S. Forest Service	04/16 - 04/17 Twin Falls, ID; Upper Lake, CA; Pioneer, CA, USA
Field Archaeologist I Louis Berger Group	11/15 - 12/15 NY & MA, USA
Archeology Technician (GS-0102-05) U.S. Forest Service	07/15 - 09/15 Hot Springs, SD, USA
Excavation Intern The George Washington Foundation	05/14 - 08/14 Fredericksburg, VA, USA
Archeology Intern The Student Conservation Association, U.S. Forest Service	06/13 - 08/13 Fort Jones, CA, USA
Excavation Assistant Archaeospain	07/11 Peñalba De Castro, Burgos, Spain