

DARCY BIRD

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RESEARCH INTERESTS

Complex adaptive systems, environmental archaeology, adaptive strategies, forager-farmer transitions, human ecology, quantitative archaeology, paleodemography, paleoecology, paleoclimatology.

CURRENT POSITIONS

Max Planck Institute for the Science of Human History, Jena, Germany	
Affiliated Researcher	July 2021-present
PAGES Paleoclimate and the Peopling of the Earth (People 3000) Working Group	
Early Career Network Liaison	April 2021-present
Washington State University, Pullman, WA	
President, Anthropology Graduate Organization	August 2020-present
Teaching Assistant, Department of Anthropology	August 2019-present

EDUCATION

Washington State University

Ph.D. Anthropology 2019 - Anticipated 2023

Dissertation: *Paleodemographic Tipping Points: a Complex Adaptive Systems Approach to Past Dramatic Transitions*

Committee: Timothy Kohler (Chair), R. Kyle Bocinsky, Anne Pisor, Erin Thornton

Utah State University

M.S. Anthropology, focus in 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

Bird, Darcy, Lux Miranda, Marc Vander Linden, Erick Robinson, R. Kyle Bocinsky, Christopher Nicholson, José Capriles, Judson Byrd Finley, Eugenia Gayo, Adolfo Gil, Jade

d'Alpoim Guedes, Julie Hoggarth, Andrea Kay, Emma Loftus, Umberto Lombardo, Madeline Mackie, Alessio Palmissano, Steinar Solheim, Robert L. Kelly, and Jacob Freeman. p3k14c - A global database of archaeological radiocarbon dates. *Scientific Data*.

Kohler, Timothy A., **Darcy Bird**, David H. Wolpert. Social Scale and Collective Computation: Does Information Processing Limit Rate of Growth in Scale? *Journal of Social Computing*.

In Press

- 2021 Freeman, Jacob, John M. Anderies, Noelle G. Beckman, Erick Robinson, Jacopo A. Baggio, **Darcy Bird**, Christopher Nicholson, Judson Byrd Finley, Jose Capriles, Adolfo F. Gil, David Byers, Eugenia Gayo, Claudio Latorre. Constructed landscapes impact the long-term stability of agricultural populations. *Human Ecology*.

Published

- 2021 Scheffer, Marten, Egbert H. van Nes, **Darcy Bird**, R. Kyle Bocinsky, and Timothy A. Kohler. Loss of resilience preceded transformations of pre-Hispanic Pueblo societies. *Proceedings of the National Academy of Sciences* 118(18). DOI: <https://doi.org/10.1073/pnas.2024397118>
- 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 of the Royal Society B: Biological Sciences* 376(1816). DOI: <https://doi.org/10.1098/rstb.2019.0718>
- 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* 30(9): 1345-1359. DOI: <https://doi.org/10.1177/0959683620919975>
- 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* 120(105168). DOI: <https://doi.org/10.1016/j.jas.2020.105168>

BOOK CONTRIBUTIONS (* peer-reviewed)

In Review

- 2021 Kohler, Timothy A., R. Kyle Bocinsky, **Darcy Bird**. *Fluctuat nec mergitur: Seven Centuries of Pueblo Crisis and Resilience*. In *Historical Systemic Collapse*, edited by Peter W. Callanan and Miguel A. Centeno. Routledge Press, London. *

PROFESSIONAL CONFERENCE PRESENTATIONS

- 2021 **Bird, Darcy**, R. Kyle Bocinsky, Timothy Kohler. *Maize, Construction, and Population Changes: One Way to Identify Sunk Cost Behaviors in Central Mesa Verde*. Poster digitally presented at the Society for American Archaeology 86th Annual Meeting, San Francisco, CA, USA.
- 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

INVITED PRESENTATIONS

- 2021 **Bird, Darcy.** *P3k14C: a Radiocarbon Database for Paleodemographic Research.* Keynote Speaker at the People3000 Workshop, "Understanding long-term human-environment feedback loops through the integration of archaeology, paleoclimate and ecological models," organized by Eugenia Gayo and Claudio Latorre, 03/25/2021.
- 2020 **Bird, Darcy,** Lux Miranda, Marc Vander Linden, Erick Robinson. *P3K14C Global: a Progress report.* Presented at the People3000 Teleworkshop organized by Erick Robinson, 05/08/2020.

CAMPUS PRESENTATIONS

- 2020 Rumberger, Jackie and **Darcy Bird**, with Panelists Julia Cassaniti, Rachel Horowitz, and Luke Premo. *How to Apply to Grad School in Anthropology.* Undergrad Workshop and Q&A at Washington State University, 10/28/2020.
- Bird, Darcy.** *Can we identify the Sunk Cost Fallacy in the American Southwest?* Brown Bag Workshop at Washington State University, 10/13/2020.
- 2019 **Bird, Darcy.** *How to Get a Job in Archaeology.* Presented at Washington State University, 9/25/2019.
- 2018 **Bird, Darcy.** *Representations of Paleodemography.* 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.

DATABASE AND CODE PUBLICATIONS

- 2021 p3k14c. **Darcy Bird**, Jacob Freeman, Erick Robinson, Lux Miranda, Marc Vander Linden, R. Kyle Bocinsky, Chris Nicholson, Jose M. Capriles, Judson Finley, Eugenia Gayo, Adolfo Gil, Jade D'Alpoim Guedes, Julie Hoggarth, Andrea Kay, Emma Loftus, Umberto Lombardo, Madeline Mackie, Alessio Palmisano, Steinar Solheim, Claudio Latorre, Robert Kelly. 2021 (tDAR id: 459164) ; doi:10.48512/XCV8459164
- p3k14c Graveyard. **Darcy Bird**, Jacob Freeman, Erick Robinson, Lux Miranda, Marc Vander Linden, R. Kyle Bocinsky, Chris Nicholson, Jose Capriles, Judson Finley, Eugenia Gayo, Adolfo Gil, Jade D'Alpoim Guedes, Julie Hoggarth, Andrea Kay, Emma Loftus, Umberto Lombardo, Madeline Mackie, Alessio Palmisano, Steiner Solheim, Claudio Latorre, Robert Kelly. 2021 (tDAR id: 459174) ; doi:10.48512/XCV8459174

p3k14c Raw. **Darcy Bird**, Jacob Freeman, Erick Robinson, Lux Miranda, Marc Vander Linden, R. Kyle Bocinsky, Chris Nicholson, Jose Capriles, Judson Finley, Eugenia Gayo, Adolfo Gil, Jade D'Alpoim Guedes, Julie Hoggarth, Andrea Kay, Emma Loftus, Umberto Lombardo, Madeline Mackie, Alessio Palmisano, Steiner Solheim, Claudio Latorre, Robert Kelly. 2021 (tDAR id: 459173) ; doi:10.48512/XCV8459173

p3k14c Scrubbed. **Darcy Bird**, Jacob Freeman, Erick Robinson, Lux Miranda, Marc Vander Linden, R. Kyle Bocinsky, Chris Nicholson, Jose Capriles, Judson Finley, Eugenia Gayo, Adolfo Gil, Jade D'Alpoim Guedes, Julie Hoggarth, Andrea Kay, Emma Loftus, Umberto Lombardo, Madeline Mackie, Alessio Palmisano, Steiner Solheim, Claudio Latorre, Robert Kelly. 2021 (tDAR id: 459172) ; doi:10.48512/XCV8459172

2020 Bocinsky, Kyle, **Darcy Bird**, Robert Kelly. County-level radiocarbon dates for the upland US Southwest. (tDAR id: 455460) ; doi:10.6067/XCV8455460

ADDITIONAL TRAINING

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

RESEARCH GROUPS

2019-2021 **Role: Participant**. *IBSS-L: Information Networks and the Evolution of Social Organizations*, PIs: Timothy Kohler, Luis Bettencourt, David Wolpert.

2017-present **Role: Early Career Researcher Liaison (2021-present); Participant (2017-2020)**. *Past Global Changes (PAGES) sponsored Scientific Working Group: PEOPLE 3000 (PaleOclimate and the Peopling of the Earth)*, Leadership team: Jacob Freeman, Eugenia Gayo, Julie Hoggarth, Claudio Latorre, Erick Robinson, Darcy Bird.

AWARDS, SCHOLARSHIPS, FELLOWSHIPS, AND GRANTS

2021 Russ and Anne Fuller Fellowship for Interdisciplinary Research/Scholarship. **\$4,000**.
Janet Friedman Memorial Fellowship in Anthropological Archaeology. **\$1,000**.
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. **\$1,000**.
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

Register of Professional Archaeology: 2020-present

Society for American Archaeology: 2017-present

Great Basin Anthropological Association: 2016-present

Utah Professional Archaeological Council: 2018-present

ACADEMIC SERVICE

Early Career Network Liaison

PEOPLE 3000 (PalEOclimate and the PeopLing of the Earth) 4/2021-present

PAGES (Past Global Changes) Working Group, 2021-2025.

<http://pastglobalchanges.org/science/wg/people-3000/intro>

President

Washington State University, Anthropology Graduate Organization 8/2020-present
wsuago.wordpress.com Pullman, WA, USA

RESEARCH EXPERIENCE

Washington State University, Anthropology Pullman, WA, USA
Graduate Research Assistant 1/2020 - 5/2021

Utah State University, Anthropology Logan, UT, USA
Graduate Research Assistant 8/2017 - 5/2018; 8/2018 - 5/2019

University of Rochester, Classics/Mech. Engineering Arezzo, Italy; Rochester, NY, USA
Undergraduate Research Assistant 6/2012 - 12/2012

TEACHING EXPERIENCE

Washington State University, Anthropology Pullman, WA, USA
Graduate Teaching Assistant 8/2019 - 12/2019; 8/2021 - present
ANTH 101 Introduction to Anthropology, 3 hours/week, 1 section, 90 students.

忻州一中学 / Xinzhou No. 1 Middle School Xinzhou, Shanxi, China
English Teacher 8/2014 - 6/2015
Spoken English Class, 40 minutes/week, 15 sections, 70 students each.

University of Rochester, Earth and Environmental Science Rochester, NY, USA
Workshop Assistant 8/2013 - 12/2013
EES 101: Introduction to Geology, 3 hours/week, 1 section, 7 students.

CULTURAL RESOURCE MANAGEMENT EXPERIENCE

National Park Service Los Alamos, NM, USA
Archeology Technician (GS-0102-07) 5/2021 - 8/2021

U.S. Forest Service Vernal, UT, USA
Archeology Technician (GS-0102-07) 6/2018 - 8/2018; 5/2019 - 8/2019

Bureau of Land Management Susanville, CA, USA

Archeology Technician (GS-0102-07)	5/2017 - 8/2017
U.S. Forest Service	Twin Falls, ID; Upper Lake, CA; Pioneer, CA, USA
Archeology Technician (GS-0102-05)	4/2016 - 4/2017
Louis Berger Group	NY & MA, USA
Field Archaeologist I	11/2015 - 12/2015
U.S. Forest Service	Hot Springs, SD, USA
Archeology Technician (GS-0102-05)	7/2015 - 9/2015
The George Washington Foundation	Fredericksburg, VA, USA
Excavation Intern	5/2014 - 8/2014
The Student Conservation Association, U.S. Forest Service	Fort Jones, CA, USA
Archeology Intern	6/2013 - 8/2013
Archaeospain	Peñalba De Castro, Burgos, Spain
Excavation Assistant	7/2011