

Kelsey M. Reese

Environmental Professional 2 · Environmental Stewardship Group

Los Alamos National Laboratory, New Mexico

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Education

PhD, Department of Anthropology 2021
University of Notre Dame, Notre Dame, Indiana

MA, Department of Anthropology 2018
University of Notre Dame, Notre Dame, Indiana

MA, Department of Anthropology 2014
Washington State University, Pullman, Washington

BA, Departments of Political Science and Anthropology 2010
University of Illinois, Urbana, Illinois

Appointments

CURRENT

Environmental Professional 2 2021–present
Los Alamos National Laboratory, Los Alamos, New Mexico

AFFILIATIONS

Research Associate 2021–present
The Research Institute at Crow Canyon, Cortez, Colorado

Research Associate 2021–present
Crow Canyon Archaeological Center, Cortez, Colorado

Research Associate 2019–present
Santa Fe Institute, Santa Fe, New Mexico

Publications

PEER-REVIEWED

Reese, Kelsey M. and Sean Field
2021 [A Methodological Framework for Free and Open-Source UAV-Based Archaeological Research](#).
Advances in Archaeological Practice 9(4): 394–401.

Casana, Jesse, Elise J. Laugier, Austin Chad Hill, Kelsey M. Reese, Carolin Ferwerda, Mark D. McCoy, and Thegn Ladefoged
2021 [Exploring archaeological landscapes using drone-acquired lidar: Case studies from Hawai'i, Colorado, and New Hampshire, USA](#). *Journal of Archaeological Science: Reports* 39(103133): 1–10.

Reese, Kelsey M.

2021 [Deep learning artificial neural networks for non-destructive archaeological site dating](#). *Journal of Archaeological Science* 132(105413): 1–14.

Reese, Kelsey M.

2020 [Check dam agriculture on the Mesa Verde cuesta](#). *Journal of Archaeological Science: Reports* 31(102372): 1–10.

Reese, Kelsey M., Donna M. Glowacki, and Timothy A. Kohler

2019 [Dynamic Communities on the Mesa Verde Cuesta](#). *American Antiquity* 84(4): 728–747.

Kohler, Timothy A., and **Kelsey M. Reese**

2014 [Long and spatially variable Neolithic Demographic Transition in the North American Southwest](#). *Proceedings of the National Academy of Sciences* 111(28): 10101–10106.

OTHER

Reese, Kelsey M.

2021 [A Summary of Recent Survey Efforts on the Mesa Verde North Escarpment](#). *Glyphs* 72(3): 6–9.

Chaired Symposia

Reese, Kelsey M., and Kathryn Harris

2016 Using GIS Modeling to Solve Real-World Archaeological Problems at the 44th International Meeting of the Computer Applications and Quantitative Methods in Archaeology, Oslo, Norway.

Kohler, Timothy A., and **Kelsey M. Reese**

2014 Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming Societies in the northern San Juan and the northern Rio Grande at the 79th Annual Meeting of the Society for American Archaeology, Austin, Texas.

Podium and Poster

Portman, Kathrine A., and **Kelsey M. Reese**

2021 A Geospatial Assessment of Reservoirs and Nearby Communities on the Mesa Verde North Escarpment. Poster presented in Methods and Practice in Ancestral Puebloan Archaeology at the 86th Annual Meeting of the Society for American Archaeology, San Francisco, California.

Bergman, Stephanie, **Kelsey M. Reese**, Anastasia Steffen, and Nicholas L. Jarman

2021 First Came the Fires: Valles Caldera Landscape Futures in a Changing Climate. Poster presented in Beyond Triage: Prioritizing Responses to Climate Change Impacts on Archaeological Resources at the 86th Annual Meeting of the Society for American Archaeology, San Francisco, California.

Reese, Kelsey M.

2019 A View from the Mesa Verde North Escarpment. Paper presented in Northern New Mexico and Four Corners at the 82nd Annual Pecos Conference, Cloudcroft, New Mexico.

Reese, Kelsey M.

2019 Ecological Marginality and Internal Migration on the Mesa Verde North Escarpment. Paper

presented in Archaeological Data for Modern Problems. Modern Methods for Archaeological Questions at the 47th International Meeting of the Computer Applications and Quantitative Methods in Archaeology, Kraków, Poland.

Portman, Katherine A., and Kelsey M. Reese

2019 First Impressions of the Mesa Verde North Escarpment. Poster presented in Settlement and Society in the American Southwest at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

Reese, Kelsey M.

2019 All for Drone and Drone for Free: A Free and/or Open-Source Workflow for UAV Imagery Collection and Analysis. Poster presented in Novel Statistical Techniques in Archaeology II (QUANTARCH II) at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.

Reese, Kelsey M., and Brian Yaquinto

2018 Mind the Gap: The Mesa Vere North Escarpment. Poster presented in Mesa Verde Ancestral Pueblo Villages: Recent Research at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C.

Reese, Kelsey M.

2017 Lived Landscapes: The Chaco Visibility Network. Paper presented at the Annual GISday Symposium hosted by the Center for Digital Scholarship and Center for Research Computing, Notre Dame, Indiana.

Reese, Kelsey M., Molly Iott, Katherine Portman, Donna M. Glowacki, James M. Potter, and Scott G. Ortman

2017 Pottery Production at Cowboy Wash Pueblo: A Central Village on the Ute Piedmont Frontier. Poster presented in Current Ceramics Research in the American Southwest at the 82nd Annual Meeting of the Society for American Archaeology, Vancouver, British Columbia.

Reese, Kelsey M.

2016 From the Empirical to the Conjectural: Using Spatial Analysis to Determine Population Settlement Patterns on the Uncharted Mesa Verde Landform. Poster presented in General Southwest II at the 81st Annual Meeting of the Society for American Archaeology, Orlando, Florida.

Reese, Kelsey M.

2016 From the Empirical to the Conjectural: Settlement Patterns on the Mesa Verde Landform. Paper presented in Using GIS Modeling to Solve Real-World Archaeological Problems at the 44th International Meeting of the Computer Applications and Quantitative Methods in Archaeology, Oslo, Norway.

Reese, Kelsey M., Timothy A. Kohler

2015 Agency of Access: Public Architecture in Mesa Verde National Park. Paper presented in Ancient Architecture and Spatial Technology: A Global Perspective at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California.

Reese, Kelsey M.

2014 Letting the Data Define the Terms: Mapping Community Size and Expanse in Mesa Verde Proper. Paper presented in Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming

Societies in the northern San Juan and the northern Rio Grande at the 79th Annual Meeting of the Society for American Archaeology, Austin, Texas.

Kohler, Timothy A., **Kelsey M. Reese**, Stefani A. Crabtree, R. Kyle Bocinsky, and Brian M. Kemp
2014 Prolegomenon: VEP II, Almost in Retrospect. Paper presented in Coupled Regions, Coupled Systems: Dynamics of Prehispanic Farming Societies in the northern San Juan and the northern Rio Grande at the 79th Annual Meeting of the Society for American Archaeology, Austin, Texas.

Kohler, Timothy A., R. Kyle Bocinsky, and **Kelsey M. Reese**
2014 A 2,000-Year Perspective on People and Climate Change in the Neolithic U.S. Southwest. Paper presented in Discovering Long-Term Climatic Vulnerabilities at the Nature-Society Interface at the Annual Meeting of the American Association for Advancement of Science, Chicago, Illinois.

Reese, Kelsey M., R. Kyle Bocinsky, Donna M. Glowacki, Scott G. Ortman, and Timothy A. Kohler
2013 What Are Communities, Really? Paper presented in New Directions in Modeling Dynamics for Coupled Social-Natural Systems at the 78th Annual Meeting of the Society for American Archaeology, Honolulu, Hawaii.

Reese, Kelsey M., R. Kyle Bocinsky, Kay E. Barnett, Stefani A. Crabtree, Elise Alonzi, Andrew Steier, Donna M. Glowacki, and Timothy A. Kohler
2012 Large, Aggregated Villages in Little Soda Canyon. Poster presented in Southwest at the 77th Annual Meeting of the Society for American Archaeology, Memphis, Tennessee.

Kohler, Timothy A., and **Kelsey M. Reese**
2012 Revisiting the Neolithic Demographic Transition in the North American Southwest. Paper presented in Approaching Convergence in Archaeological Demography at the 13th Biennial Southwest Symposium, Albuquerque, New Mexico.

Glowacki, Donna M., Timothy A. Kohler, Kay E. Barnett, R. Kyle Bocinsky, Stefani A. Crabtree, **Kelsey M. Reese**, Elise Alonzi, and Andrew Steier
2011 Large Villages in Upper Soda Canyon: an update on VEP fieldwork. Paper presented in Mesa Verde at the 74th Annual Pecos Conference, Mile-and-a-Half Lake, Arizona.

Invited Lectures

Reese, Kelsey M.

2021 An Example Application of Artificial Neural Networks in Archaeology. Presented as part of the SFI Seminar Series at the Santa Fe Institute, Santa Fe, New Mexico.

Reese, Kelsey M.

2020 A Comprehensive Model for Wildfire and Cultural Resource Management at Valles Caldera National Preserve. Presented to the East Jemez Resources Council: Cultural Resources Subcommittee, Valles Caldera National Preserve, Jemez Springs, New Mexico.

Reese, Kelsey M.

2019 The Mesa Verde North Escarpment: Fieldwork and Preliminary Thoughts from the In-between. Presented as part of the Four Corners Lecture Series and hosted by the Hisatsinom Chapter of the Colorado Archaeological Society, Cortez, Colorado.

Reese, Kelsey M.

2019 Ecological Marginality and Internal Migration on the Mesa Verde North Escarpment. Pre-

sented as part of the Fellows Luncheon Speaker Series at the Center for Research and Interdisciplinarity, Paris, France.

Reese, Kelsey M., and Timothy A. Kohler

2015 Agency of Access: Public Architecture in Mesa Verde National Park. Presented as part of the National Park Service Archaeology Program “ArcheoThursday” webinar series, Santa Fe, New Mexico.

Reese, Kelsey M.

2014 Modern Technology, Ancient Communities: The Archaeology of Prehistoric Settlement Patterns. Presented as part of the Branigan Cultural Center “History Notes” lecture series, Las Cruces, New Mexico.

Media

2021 “[Ask an Archaeologist](#)” hosted by Dr. Elizabeth Perry. Presented as part of the *Discover Archaeology* webinar series by Crow Canyon Archaeological Center.

2019 “[Dynamic Communities on the Mesa Verde Cuesta with Kelsey Reese - Episode 118](#)” on *The ArchaeoTech Podcast*. Presented by the Archaeology Podcast Network with Paul Zimmerman and Chris Webster.

2019 “[Pueblo villages thrived on Mesa Verde escarpment](#)” by Jim Mimiaga in *The Journal*.

2019 “[SAA19 Poster Session Interviews, Part 2](#)” on the *Women in Archaeology Podcast*.

2018 “[Reading the Remains](#)” by Brendan O’Shaughnessy in *Notre Dame Magazine*.

Technical Reports

Reese, Kelsey M.

2021 *Mesa Verde North Escarpment Survey: Class III Survey of State-managed Land on the Mesa Verde North Escarpment, Montezuma County, Colorado*. Report on file with History Colorado in compliance with Research Permit #76476, Denver, Colorado.

Reese, Kelsey M.

2019 *Fieldwork Episode Report 2019: Survey of Bureau of Land Management Sites on the Mesa Verde North Escarpment*. Report on file at the Bureau of Land Management Tres Rios Field Office in compliance with Research Permit C-79006, Dolores, Colorado.

Reese, Kelsey M.

2018 *Fieldwork Episode Report 2018: Preliminary Survey of Bureau of Land Management Sites on the Mesa Verde North Escarpment*. Report on file at the Bureau of Land Management Tres Rios Field Office in compliance with Research Permit C-79006, Dolores, Colorado.

Glowacki, Donna M., R. Kyle Bocinsky, **Reese, Kelsey M.**, and Katherine A. Portman

2017 *The Mesa Verde Community Center Survey: Summer 2017*. Report on file at Mesa Verde National Park and Crow Canyon Archaeological Center, Cortez, Colorado.

Glowacki, Donna M., with contributions by Elise Alonzi, R. Kyle Bocinsky, and **Reese, Kelsey M.**

2012 *The Mesa Verde Community Center Survey: Final Report*. Manuscript submitted to the National

Science Foundation and Mesa Verde National Park in compliance with deliverable for NSF Grant DEB-0816400, on file with Crow Canyon Archaeological Center, Cortez, Colorado and Washington State University, Pullman, Washington.

Previous Research, Fieldwork, and Professional Experience

<i>Postdoctoral Teaching Scholar</i> , Department of Anthropology University of Notre Dame, Notre Dame, Indiana	2021
<i>Project Director</i> , Mesa Verde North Escarpment Survey Mesa Verde North Escarpment, Cortez, Colorado	2021
<i>Fellow</i> , Future Park Leaders of Emerging Change Valles Caldera National Preserve, Jemez Springs, New Mexico	2020
<i>Field Archaeologist</i> , Far View Archaeological Project Mesa Verde National Park, Cortez, Colorado	2019
<i>Project Director</i> , Mesa Verde North Escarpment Survey Mesa Verde North Escarpment, Cortez, Colorado	2019
<i>Visiting Researcher</i> , Transitions in the Longue Durée Center for Research and Interdisciplinarity, Paris, France	2019
<i>Project Director</i> , Mesa Verde North Escarpment Survey Mesa Verde North Escarpment, Cortez, Colorado	2018
<i>Graduate Teaching Assistant</i> , Department of Anthropology University of Notre Dame, Notre Dame, Indiana	2017–2018
<i>Field Archaeologist</i> , Village Reassessment Project Mesa Verde National Park, Cortez, Colorado	2017
<i>Assistant Supervisor, GIS Database Manager</i> Southwest Archaeological Consultants, Inc., Santa Fe, New Mexico	2015–2016
<i>Volunteer</i> , Cliff Palace Stabilization Project Mesa Verde National Park, Cortez, Colorado	2015
<i>Draftsperson, Field Archaeologist</i> Human Systems Research, Inc., Las Cruces, New Mexico	2014
<i>Graduate Researcher</i> , Village Ecodynamics Project II, National Science Foundation Washington State University, Pullman, Washington	2011–2014
<i>Graduate Teaching Assistant</i> , Department of Anthropology Washington State University, Pullman, Washington	2011–2014
<i>Research Excavation Intern</i> , Basketmaker Communities Project Crow Canyon Archaeological Center, Cortez, Colorado	2013
<i>Visiting Researcher</i> , The Principles of Complexity, John Templeton Foundation Santa Fe Institute, Santa Fe, New Mexico	2012

<i>Field Archaeologist, Mesa Verde Community Center Survey</i> Mesa Verde National Park, Cortez, Colorado	2012
<i>Field Archaeologist, Mesa Verde Community Center Survey</i> Mesa Verde National Park, Cortez, Colorado	2011
<i>Field School Student, Mississippian Initiative</i> University of Illinois, Trempealeau, Wisconsin	2010

Awards

Award for Computational Sciences and Visualization Center for Research Computing at the University of Notre Dame	2019
Honorable Mention National Science Foundation Graduate Research Fellowship Program	2017
International CAA Recycle Award Computer Applications and Quantitative Methods in Archaeology - International	2016

Fellowships

University Presidential Fellowship in Humanities and Social Sciences, \$29,000 University of Notre Dame, Notre Dame, Indiana	2020
University Presidential Fellowship in Humanities and Social Sciences, \$29,000 University of Notre Dame, Notre Dame, Indiana	2019
University Presidential Fellowship in Humanities and Social Sciences, \$29,000 University of Notre Dame, Notre Dame, Indiana	2018
University Presidential Fellowship in Humanities and Social Sciences, \$26,500 University of Notre Dame, Notre Dame, Indiana	2017
University Presidential Fellowship in Humanities and Social Sciences, \$26,000 University of Notre Dame, Notre Dame, Indiana	2016

Grants

EXTERNAL

Research Grant, \$318 Arizona Archaeological and Historical Society, Tucson, Arizona	2021
Conference Travel Grant, \$500 Arizona Archaeological and Historical Society, Tucson, Arizona	2019
Fieldwork Award for LiDAR Data Collection SPatial Archaeometry Research Collaborations, Fayetteville, Arkansas	2019
Conference Expense Bursary, €800 Computer Applications and Quantitative Methods in Archaeology, Kraków, Poland	2019

Cooperative Agreement, \$10,100 Bureau of Land Management, Tres Rios Field Office, Dolores, Colorado	2018
Satellite Imagery Grant DigitalGlobe Foundation, Westminster, Colorado	2018
Conference Travel Grant, \$500 Arizona Archaeological and Historical Society, Tucson, Arizona	2016
Conference Expense Bursary, €370 Computer Applications and Quantitative Methods in Archaeology, Oslo, Norway	2016
Conference Travel Grant, \$400 Arizona Archaeological and Historical Society, Tucson, Arizona	2015
Conference Travel Grant, \$300 Arizona Archaeological and Historical Society, Tucson, Arizona	2014
Conference Travel Grant, \$300 Arizona Archaeological and Historical Society, Tucson, Arizona	2013
Conference Travel Grant, \$300 Arizona Archaeological and Historical Society, Tucson, Arizona	2012
INTERNAL	
Graduate Student Research Award, \$1,967 Institute for Scholarship in the Liberal Arts, Notre Dame, Indiana	2021
Conference Travel Grant, \$833 Dean of Arts and Letters, Notre Dame, Indiana	2020
Graduate Student Research Award, \$865 Institute for Scholarship in the Liberal Arts, Notre Dame, Indiana	2019
Notebaert Professional Development Fund, \$1,875 The Graduate School, Notre Dame, Indiana	2019
Conference Travel Grant, \$300 Department of Anthropology, Notre Dame, Indiana	2019
Conference Presentation Grant, \$200 Graduate Student Union, Notre Dame, Indiana	2019
Summer Research Grant, \$2,000 Department of Anthropology, Notre Dame, Indiana	2018
Graduate Student Research Award, \$3,840 Institute for Scholarship in the Liberal Arts, Notre Dame, Indiana	2017
Conference Registration Grant, \$99 Graduate and Professional Student Association, Pullman, Washington	2014
Conference Travel Grant, \$276 Graduate and Professional Student Association, Pullman, Washington	2014

Conference Registration Grant, \$99 2013
Graduate and Professional Student Association, Pullman, Washington

Conference Travel Grant, \$400 2013
Graduate and Professional Student Association, Pullman, Washington

Academic Service

Member, Program Committee 2021
Society for American Archaeology Annual Meeting, San Francisco, California

Panelist, Current Questions and Debates in the Discipline of Southwest Archaeology 2020
University of Colorado Museum of Natural History, Boulder, Colorado

Panelist, Current Questions and Debates in the Discipline of Southwest Archaeology 2020
University of Colorado Museum of Natural History, Boulder, Colorado

Graduate Student Committee Member, External Review Board 2018
Department of Anthropology, University of Notre Dame, Notre Dame, Indiana

Anthropology Undergraduate Mentor 2017–2018
Department of Anthropology, University of Notre Dame, Notre Dame, Indiana

Graduate Student Committee Member, Archaeology Faculty Search 2017
Department of Anthropology, University of Notre Dame, Notre Dame, Indiana

Educator, Expanding Your Horizons STEM Conference 2017
University of Notre Dame, Notre Dame, Indiana

Conference Submission Reviewer 2016
Computer Applications and Quantitative Methods in Archaeology, Atlanta, Georgia

Professional Memberships

Arizona Archaeological and Historical Society
Computer Applications and Quantitative Methods in Archaeology - International
Society for American Archaeology

References

DR. MARK GOLITKO

University of Notre Dame
Department of Anthropology
254 Corbett Family Hall
Notre Dame, Indiana 46556

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Phone (574) 631-3763

DR. TIMOTHY A. KOHLER

Washington State University
Department of Anthropology
College Hall 150
Pullman, Washington 99164

Email tako@wsu.edu

Phone (509) 335-2698

DR. DEVIN A. WHITE

Sandia National Laboratories
Autonomous Sensing & Perception
P.O. Box 5800, MS 1163
Albuquerque, New Mexico 87185

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Phone (505) 284-4008

DR. R. KYLE BOCINSKY

University of Montana, Montana Climate Office
W.A. Franke College of Forestry and Conservation
32 Campus Drive
Missoula, Montana 59812

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DR. STEFANI A. CRABTREE

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