

COLLEEN STRAWHACKER

Research Scientist I • National Snow and Ice Data Center • Cooperative Institute for Research in the Environmental Sciences • University of Colorado • Boulder, CO 80309 • colleen.strawhacker [at] colorado.edu • 303.492.9653 (office)

OCTOBER 2017

PROFESSIONAL POSITIONS

2014-present Research Scientist I, National Snow and Ice Data Center, University of Colorado

2013-2015 Council for Library and Information Resources (CLIR) Postdoctoral Fellow at the National Snow and Ice Data Center, University of Colorado, Boulder, CO.
Focus: Arctic Social Science Research and Data Management

EDUCATION

2013 Ph.D. in Anthropology (Minor in Ecology), School of Human Evolution and Social Change, Arizona State University, Tempe, AZ.
Dissertation Title: *Sustaining Irrigation Agriculture for the Long Term: Lessons on Maintaining Soil Quality from Ancient Agricultural Fields in the Phoenix Basin and on the North Coast of Peru*

2008 M.A. in Anthropology (Minor in Ecology), School of Human Evolution and Social Change, Arizona State University, Tempe, AZ

2005 B.A. with Highest Distinction and with Honors in Anthropology
Pennsylvania State University, Schreyer Honors College, University Park, PA
Minors: Geographic Information Science, Spanish, Latin American Studies, International Studies

RESEARCH INTERESTS

Cyberinfrastructure and Data Products with a Focus on Social Science Data and Indigenous Knowledge, Ethical Issues around Data Sovereignty, Data Interoperability for Synthesis Research, Archaeology, Climate Change Resilience and Vulnerabilities, Soils and Agriculture of the Past, Long-Term Human Ecodynamics in Marginal Environments (Arctic and U.S. Southwest), Irrigation Agriculture and Indigenous Water Rights

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ACADEMIC FELLOWSHIPS, GRANTS, AND AWARDS

External Research Grants (as PI and co-PI)

- 2017-2021 National Science Foundation Growing Convergence Program: Navigating the New Arctic Research Coordination Network (\$499,006)
Convergence NNA: Networking Indigenous Arctic and U.S. Southwest Communities on Knowledge Co-Production in Data Sciences
PI: **Colleen Strawhacker**
Co-PIs: Peter Pulsifer, Dan Ferguson, Stephanie Rainie, Tristan Reader
- 2017-2019 National Science Foundation Office Polar Programs Grant 1719540 (\$299,298)
Automated Discovery of Content-in-Context Relationships from a Large Corpus of Arctic Social Science Data
PI: Peter Pulsifer
Co-PIs: **Colleen Strawhacker** and Paul Berkman
- 2017-2018 National Science Foundation Office of Polar Programs Grant (\$49,547)
Polar Data Planning Summit: Coordinating International Data Management, Mediation, and Sharing Activities in Support of Polar Observing, Science, Decision-making, and Arctic People
PI: Peter Pulsifer
Co-PIs: **Colleen Strawhacker** and Maribeth Murray
- 2016-2019 National Science Foundation Resource Implementation for Data Intensive Research Grant 1637076 (\$1,099,981)
RIDIR: Building Cyberinfrastructure to Enable Interdisciplinary Research on the Long-Term Human Ecodynamics of the North Atlantic
PI: **Colleen Strawhacker**
Co-PIs: Emily Lethbridge, Rachel Opitz, Philip Buckland, and Thomas McGovern
- 2016-2019 National Science Foundation Polar Programs Grant 1513438 (\$1,480,806)
Collaborative Research: ELOKA Phase IV: Optimizing Data Management Support for Community-Based Research and Observations Contributing to Arctic Science

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PI: Peter Pulsifer

Co-PIs: **Colleen Strawhacker**, Shari Gearheard, Ruth Duerr

2014-2017 National Science Foundation Polar Programs Grant 1416712 (\$599,870)
Science-Driven Cyberinfrastructure: Integrating permafrost data, services, and research application: PermaData

PI: Kevin Schaefer

Co-PIs: **Colleen Strawhacker**, Elchin Jafarov, Peter Pulsifer

2014-2017 National Science Foundation Data Infrastructure in the Social and Behavioral Sciences Grant 1439389 (\$398,801)

BCC Building Cyberinfrastructure for Transdisciplinary Research and Visualization of the Long-Term Human Ecodynamics of the North Atlantic

PI: **Colleen Strawhacker**

Co-PIs: Peter Pulsifer, Francis McManamon, Phillip Buckland, Thomas Dawson

External Fellowships

2013-2015 Council for Library and Information Resources (CLIR) Postdoctoral Fellowship

2006-2011 National Science Foundation Graduate Research Fellowship

2006-2013 Fellow for Integrative Graduate Education and Research Traineeship (IGERT) in Urban Ecology at the Arizona State University

** *promoted to Senior Fellow in 2009*

2006-2008 Integrative Graduate Education and Research Traineeship (IGERT) in Archaeological Sciences at the University of Arizona (declined)

2010 Ecological Society of America Millennium Conference Travel Grant (\$2200)

2009 National Science Foundation International Travel Grant (\$1000)

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- 2004 National Science Foundation Research Experience for Undergraduates Grant (REU), Pennsylvania State University, North Orkney Population History Project, Westray, Scotland
- 2003 National Science Foundation Research Experience for Undergraduates Grant (REU), Research Assistant to Dr. Frances Hayashida, Pennsylvania State University, University Park, PA

PUBLICATIONS

Peer-Reviewed

Books

Nelson, M. C. and **C. Strawhacker** (editors)

- 2011 *Movement, Connectivity, and Landscape Change in the Ancient Southwest*. University Press of Colorado, Boulder.

Journal Articles and Book Chapters

Strawhacker, C., Optiz, R., Palsson, G., Buckland, P., Yarmey, L., Pulsifer, P., Dawson, T., Streeter, R., Newton, A., McGovern, T., Ryan, T., Dugmore, A.

- In prep Aggregating and Linking Data for Interdisciplinary Synthesis Research in Archaeology: Lessons from NASA's Levels of Data for the Development of Data Reuse Tools. To be submitted to *American Antiquity* in February 2018.

Strawhacker, C., Snitker, G., Peeples, M., Freeman, J., Kinzig, A., Kintigh, K., Bocinsky, K., Nelson, M., Sandor, J., Spielmann, K., and Butterfield, B.

- In prep Climate-Driven Risks to Food Security in the Prehispanic U.S. Southwest: Exploring Risk and Vulnerability from a Landscape Perspective. To be submitted to *American Antiquity* in December 2017.

Strawhacker, Colleen and Frances Hayashida

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In prep The Pampa de Chaparrí: Soil Quality on a Long-Term Irrigated Landscape on the North Coast of Peru. To be submitted to *Geoarchaeology* in December 2017.

Opitz, R., Palsson, G. and **Strawhacker, C.**

In review Cursed spots, haunted peat and ecclesiastical spacetime volumes: applying the CIDOC-CRM to interdisciplinary interpretations of complex phenomena. In Felicetti, A. (ed.) *CIDOC CRM roads to semantic interoperability. Tools and strategies for legacy data integration*. ArchaeoLingua Press: Budapest.

Strawhacker, Colleen, Grant Snitker, Katherine Spielmann, Maryann Wasiolek, Jonathan Sandor, Ann Kinzig, and Keith Kintigh

In press Risk Landscapes and Domesticated Landscapes: Food Security in the Salinas Province. In *Landscapes of Social Transformation in the Salinas Province and the Eastern Pueblo World*, edited by K. Spielmann. Accepted by University of Arizona Press.

Strawhacker, Colleen

In press Stone Robbing as a Measure of Occupational History: An Exploratory Analysis of Architectural Variability on Perry Mesa. *Journal of Arizona Archaeology Special Edition on Perry Mesa*.

Strawhacker, Colleen

2017 Historic O'odham Irrigated Agriculture and Colonial Forces on the Middle Gila River, Southern Arizona. In *Transformations During the Colonial Era: Divergent Histories in the American Southwest*, pp. 331-352. edited by J. Douglass and W. Graves. University Press of Colorado, Boulder.
Open Access Version: <https://muse.jhu.edu/book/50585>

Nelson, Margaret C., Scott E. Ingram, Andrew J Dugmore, Richard Streeter, Matthew A. Peeples, Thomas H. McGovern, Michelle Hegmon, Jette Arneborg, Keith Kintigh, Seth Brewington, Katherine A Spielmann, Ian A. Simpson, **Colleen Strawhacker**, Laura E.L. Comeau, Andrea Torvinen, Christian K. Madsen, George Hambrecht, Konrad Smiarowski

2015 Climate Challenges, Vulnerabilities, and Food Security. *Proceedings of the National Academy of Sciences* 113(2): 298-303.

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Strawhacker, Colleen, Thomas McGovern, Emily Lethbridge, Philip Buckland, Gisli Palsson, Adolf Fridriksson, Thomas Dawson, Rachel Opitz, and Adam Brin

2015 Building Cyberinfrastructure from the Ground Up for the North Atlantic Biocultural Organization: Introducing the cyberNABO Project. *Proceedings of the Digital Heritage International Congress 2015*.

<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7419547&newsearch=true&searchWithin=%22Last%20Name%22:strawhacker>

Woodson, M. Kyle, Jonathan A. Sandor, **Colleen Strawhacker**, and Wesley Miles

2015 Hohokam Canal Irrigation and the Formation of Irragric Anthrosols in the Middle Gila River Valley, Arizona. *Geoarchaeology* 30: 271-290.

Torvinen, Andrea L., Michelle Hegmon, Ann P. Kinzig, Margaret C. Nelson, Matthew A. Peeples, Karen G. Schollmeyer, **Colleen Strawhacker**, Laura Swantek

2015 Transformation Without Collapse: Two Cases for the American Southwest. In *Archaeological Perspectives on Resilience, Revitalization, and Reorganization in Complex Societies: Proceedings of the 29th Annual SIU Visiting Scholars Conference*, edited by Ronald Faulseit, Southern Illinois University, Carbondale.

Hall, Sharon J., Jolene Trujillo, Dana Nakase, **Colleen Strawhacker**, Melissa Kruse-Peebles, Hoski Schaafsma, and John Briggs

2013 Legacies of prehistoric agricultural practices within plant and soil properties across an arid ecosystem. *Ecosystems* 16(7): 1273-1293.

Nelson, Margaret C., Michelle Hegmon, Keith W. Kintigh, Ben A. Nelson, John M. Anderies, David A. Abbott, Katherine A. Spielmann, Scott Ingram, Matthew A. Peeples, **Colleen Strawhacker**, Cathryn Meegan

2012 Long-Term Vulnerability and Resilience: Three Examples from Archaeological Study in the Southwestern U.S. and Northern Mexico. In *Surviving Sudden Environmental Change: Answers from Archaeology*. Edited by Jago Cooper and Payson Sheets. University Press of Colorado, Boulder.

**This chapter was reprinted in Chinese:*

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Nelson, M. C., M. Hegmon, K. W. Kintigh, A. P. Kinzig, B. A. Nelson, J. M. Anderies, D. A. Abbott, K. A. Spielmann, S. E. Ingram, M. A. Peoples, S. Kulow, **C.A. Strawhacker**, and C. Meegan
2013 長期的脆弱性與恢復力: 美國西南部與墨西哥北部考古學研究的實例, in 考古學與永續發展研究. Edited by 邱斯嘉 and 臧振華, pp. 93-117. 台北: 中央研究院人文社會科學研究中心考古學研究專題中心.

Larson, Kelli L., Elizabeth M. Cook, **Colleen Strawhacker**, and Sharon J. Hall
2010 The influence of personal values on multifaceted land management decisions in residential yards. *Human Ecology* 38(6): 747-761

Digital Products

Pulsifer, P., **C. Strawhacker, C.**, S. Gearheard
Ongoing Various Online Products Produced by Exchange for Local Observations and Knowledge in the Arctic (ELOKA, eloka-arctic.org) including databases of local observations, atlases and placenames, and community websites.

Strawhacker, C., A. Brin, R. Opitz, P. Buckland, G. Palsson, E. Lethbridge, T. McGovern, T. Dawson, R. Streeter, A. Newton, T. Ryan
2017 Operational dataARC Tool (still in development). <http://beta.data-arc.org/>. Accessed 20 October 2017.

Strawhacker, C., A. Brin, R. Opitz, P. Buckland, G. Palsson, E. Lethbridge, T. McGovern, A. Fridriksson, and T. Dawson
2015 Initial dataARC (cyberNABO) Prototype Tool. <http://data-arc.org/prototype/>. Accessed 20 October 2017.

Not Peer-Reviewed

Arctic Horizons Steering Committee (Presnall, A., Anderson, S., **Strawhacker, C.**, Etnier, M., Butler, V., Rasmus, S., Smith, K., Yamin-Pasternak, S.)
2017 *Arctic Horizons, Final Report*. Produced by the Jefferson Institute.
<http://arctichorizons.org/>

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Fidel, M., Johnson, N., Danielsen, F., Eicken, H., Iversen, L., Lee, O., **Strawhacker, C.**

2017 *INTAROS Community-based Monitoring Experience Exchange Workshop Report.*
Yukon River Inter-Tribal Watershed Council (YRITWC), University of Alaska Fairbanks, ELOKA, and INTAROS: Fairbanks.

Pulsifer, P., J. Friddell, P. Bricher, O. Godoy, **C. Strawhacker**, D. Arthers, L. Yarmey, A. Fleming

2017 *Polar Connections: A Report on the Polar Data Interoperability Workshop and Assessment Process.* Report Produced from the Polar Data Interoperability Workshop of the International Arctic Data Committee. Frascati, Italy.

Strawhacker, C., P. L. Pulsifer, and S. Gearheard

2013 New Efforts to Ensure the Proper Management and Curation of Social Science Data from the Arctic. In *Northern Notes Issue 40 (Autumn/Winter 2013)*, edited by C. Manzo and G. Fondahl. International Arctic Social Sciences Association Secretariat, University of Northern British Columbia, Prince George.

Kruse-Peebles, M. and **C. Strawhacker**

2012 Prehistoric Settlement Organization across Perry Mesa: Considerations of Settlement Size, Distribution and Chronology. In *Prehistoric Cultures of the Perry Mesa Region: Proceedings of the Perry Mesa Symposium*, edited by W.G. Russell and M.J. Hoogendyk, pp. 257-282. The Cultural Resources Committee of Friends of Agua Fria National Monument, Phoenix, AZ.

Strawhacker, C.

2010 *Preliminary Report on the Agricultural Soils across the Pampa de Chaparrí, Peru.*
Report on File at Arizona State University.

Larson, K., S.J. Hall, E. M. Cook, B. Funke, **C. Strawhacker** and V. K. Turner

2009 *Social-Ecological Dynamics of Residential Landscapes: Human Drivers of Management Practices and Ecological Structure in an Urban Ecosystem Context.* Report on File at Arizona State University, Global Institute of Sustainability.

Kruse, Melissa, Will G. Russell, Hoski Schaafsma, **Colleen Strawhacker**, and JoAnn Wallace

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2009 *Report of the 2007 Archaeological Survey of Northwestern Portions of Perry Mesa within Agua Fria National Monument*. Yavapai County, Arizona. Report Submitted to the BLM, Phoenix, AZ. Ms. on file at Arizona State University.

Schollmeyer, Karen Gust, Steve Swanson, **Colleen Strawhacker**, and Matthew Peeples

2007 *3-Up Site (LA150373): Report on 2007 Test Excavations*. Ms. on File at the Arizona State University.

FIELD AND RESEARCH EXPERIENCE

- 2014-present Lead PI of the dataARC Project (data-arc.org)
- 2015-present Managing Director and Co-PI of the Exchange for Local Observations and Knowledge in the Arctic (ELOKA, eloka-arctic.org)
- 2016-present Co-PI for the PermaData project
- 2013-2016 Consultant, Long Term Vulnerability and Transformation Project, National Science Foundation Biocomplexity and Coupled Natural-Human Systems Program, Arizona State University. (Project P.I.: Margaret Nelson)
- 2014-2015 Field Assistant, Skútustaðahreppur Midden Survey in Myvatn, Iceland (Project P.I.: Megan Hicks), the Kumlabrekka Testing Project (Project P.I.: Adolf Fridriksson), and the Hofstaðir Cemetery Excavation (Project P.I.: Hildur Gestdottir)
- 2010-2013 Dissertation Research Project, Ancient Agricultural Soils on the Middle Gila River and North Coast of Peru, (Project P.I.: Colleen Strawhacker)
- 2007-2013 Graduate Research Assistant, Arizona State University, Long Term Vulnerability and Transformation Project, National Science Foundation Biocomplexity and Coupled Natural-Human Systems Program, Arizona State University. (Project P.I.: Margaret Nelson)

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- 2007-2013 Graduate Student Participant, Arizona State University, Legacies on the Landscape Project (Project Directors: Katherine Spielmann and Sharon Hall)
- 2010 Cultural Resource Management Intern (ASB 584: Internship), The Gila River Indian Community (Supervisors: David Abbott (ASU) and David Wright (GRIC))
- 2009 Graduate Research Assistant, Central Arizona-Phoenix Long-Term Ecological Research Project, Arizona State University (Supervisor: Katherine Spielmann)
- 2009 Dissertation Pilot Project - The Long-Term Effects of Irrigated Agriculture on Soils on the North Coast of Peru, Proyecto Ynalche, Batan Grande, Peru (Director: Frances Hayashida)
- 2005, 2007 Research Assistant to Clark Erickson, University of Pennsylvania, Department of Anthropology
- 2006 Research Intern (Laboratory), Crow Canyon Archaeological Center, Cortez, CO (Immediate Supervisor: Erin Baxter)
** Carhart Fellowship, Awarded to the intern who made the largest contribution to the center during his/her tenure**
- 2004 Student Field Technician, National Science Foundation Research Experience for Undergraduates Field School, North Orkney Population History Project, Westray, Scotland (Project Directors: Patricia Johnson and James Wood)
- 2002-2003 Research Assistant to Frances Hayashida, South American Archaeology Lab, Department of Anthropology, Pennsylvania State University
- 2003 Research Assistant to Dean Snow and Claire Milner, Matson Museum of Anthropology, Department of Anthropology, Pennsylvania State University
- 2003 Research Intern (Field), Crow Canyon Archaeological Center (Project Director: Susan Ryan)

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- 2002 Student Participant, Arizona State University Field School, Eastern Mimbres Archaeological Project (Project Directors: Margaret Nelson and Michelle Hegmon)
- 2002 Laboratory Assistant to Ph.D. Candidate Timothy Scheffler, Mesoamerican Archaeology Lab, Department of Anthropology, Pennsylvania State University

MAJOR PROFESSIONAL PRESENTATIONS

Invited Panel Participant

- 2017 *Receiving Credit Where Credit is Due: Overcoming Barriers to Effective Data Sharing for Collaborative, Transdisciplinary Research*, Panel at the American Geophysical Union, New Orleans.
Conveners: Barron Orr, Amber Budden, Robert Gurney and Patricia Cruise
- 2017 *What Good is Secondhand Digital Data?* Panel at the Society for American Archaeology Annual Meeting, Vancouver
Convener: Frank McManamon
- 2015 *Adaptive Methods: Building a Long-Term Framework for Collaborative Relationships with Arctic Indigenous Communities*. American Anthropological Association Annual Meeting, Denver, November 18th-22nd.
Convener: Kelly Gwynn and Heidi McCann

Invited Talks and Lectures

Pulsifer, Peter, and **Colleen Strawhacker**

- 2017 *Arctic Observations, Data and Society: Using Systems Science and Mediation to Enhance Information Flow for Sustainability*. Presentation Given to the Arctic Research Consortium of the United States (ARCUS). Arlington, VA.
<https://www.youtube.com/watch?v=izxTiN4hH2E&feature=youtu.be>

Strawhacker, Colleen and Peter Pulsifer

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2017 *How do We Measure Value in Data Reuse? Nuancing Ethical Data Sharing and Attribution for the Social Sciences and Indigenous Knowledge.* Presentation Given to the 2017 National Data Integrity Conference, Fort Collins, CO. YouTube Video Forthcoming.

Pulsifer, Peter and **Colleen Strawhacker**

2016 *Indigenous Knowledge and Social Science Data in the Digital Age: Building Relationships and Ethical Data Use in the Arctic to Meet Global Challenges.* Keynote Presentation for the Arctic Horizons Workshop in Cedar Falls, Iowa, April 14th-16th.

Major Conference Presentations

**** Invited**

****Strawhacker, Colleen,** Emily Lethbridge, Adam Brin, Philip Buckland, Gisli Palsson, Thomas Dawson, Rachel Opitz, Jackson Cothren, and Thomas McGovern

2017 *Linking International and Interdisciplinary Data to Enable Synthesis Research in the North Atlantic: The dataARC Project.* Paper presented at the European Archaeology Association Annual Meeting, Maastricht, Netherlands, August 31st-September 2nd.

****Strawhacker, Colleen,** Grant Snitker, Keith Kintigh, Ann Kinzig and Katherine Spielmann

2017 *Measuring Risk to Food Security in the Prehispanic U.S. Southwest: The Salinas Region in the Broader Southwest World.* Paper presented Society for American Archaeology Annual Meeting, Vancouver, March 31st-April 3rd

****Wright, Aaron and Colleen Strawhacker**

2017 *Probing the Nexus between Hohokam Demography and Agricultural Productivity across the Preclassic/Classic Transition.* Paper presented Society for American Archaeology Annual Meeting, Vancouver, March 31st-April 3rd.

****Strawhacker, Colleen,** Emily Lethbridge, Adam Brin, Philip Buckland, Gisli Palsson, Thomas Dawson, Rachel Opitz, and Thomas McGovern

2017 *dataARC. The Implementation Phase.* Paper presented Arctic Science Summit Week, Prague Czech Republic, April 4th-7th.

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****Strawhacker, Colleen** and Peter Pulsifer

2017 *Information Sovereignty and Indigenous Knowledge. Lessons from Digital Tools from the Exchange for Local Observations and Knowledge of the Arctic.* Paper presented Arctic Science Summit Week, Prague Czech Republic, April 4th-7th.

****Strawhacker, Colleen,** Emily Lethbridge, Adam Brin, Philip Buckland, Gisli Palsson, Thomas Dawson, Rachel Opitz, and Thomas McGovern

2017 *dataARC. The Implementation Phase.* Paper presented at the International Congress for Arctic Social Sciences, Umea Sweden, June 8th-12th.

****Strawhacker, Colleen,** Peter Pulsifer, and Noor Johnson

2017 *Moving Towards Indigenous Data Sovereignty in the Arctic: Case Studies from ELOKA.* Paper presented at the International Congress for Arctic Social Sciences, Umea Sweden, June 8th-12th.

Wilcox, Hannah, Kevin Schafer, Peter Pulsifer, **Colleen Strawhacker,** and Elchin Jafarov

2016 *Data Integration Tool: From Permafrost Data Translation Research Tool to A Robust Research Application.* Poster presented at the American Geophysical Union Annual Meeting, San Francisco, December 12th – 16th.

Duerr, Ruth, Peter Pulsifer, and **Colleen Strawhacker**

2016 *Community Data Management and the Exchange for Local Observations and Knowledge of the Arctic.* Paper presented at the American Geophysical Union Annual Meeting, San Francisco, December 12th – 16th.

****Strawhacker, Colleen,** Emily Lethbridge, Adam Brin, Philip Buckland, Gisli Palsson, Thomas Dawson, Rachel Opitz, and Thomas McGovern

2016 *From Bugs to Archaeology to Sagas: Discovering and Integrating Data to Study the Long-Term Human Ecodynamics of the North Atlantic.* Paper presented at SciDataCon 2016, Denver, September 12th-13th.

****Strawhacker, Colleen**

2016 *Introduction and Overview to Data Curation in the Arctic Social Sciences.* Paper presented at SciDataCon 2016, Denver, September 12th-13th.

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****Strawhacker, Colleen**, Thomas McGovern, Emily Lethbridge, Philip Buckland, Gisli Palsson, Thomas Dawson, Rachel Opitz, and Adam Brin

2016 *Linking Transdisciplinary Data to Study the Long-Term Human Ecodynamics of the North Atlantic: The cyberNABO Project*. Paper presented to the Annual Meeting for the Society for American Archaeology, Orlando, April 6th-10th.

Strawhacker, Colleen, Adolf Fridriksson, Philip Buckland, Emily Lethbridge, Gisli Palsson, Rachel Opitz, Adam Brin, Thomas McGovern, and Thomas Dawson

2015 *Building Cyberinfrastructure from the Ground Up for the North Atlantic Biocultural Organization: Introducing the cyberNABO Project*. Poster presented at the Polar Data Forum, Waterloo, October 27th-29th.

****Won Award for Best Poster by an Early Career Researcher****

****Strawhacker, Colleen**, Peter L. Pulsifer, and Shari Gearheard

2015 *Managing Traditional and Local Knowledge Data for Archaeological Research*. Paper presented at the Annual Meeting of the Society for American Archaeology. San Francisco, April 15th-19th.

****Strawhacker, Colleen**, Peter L. Pulsifer, and Shari Gearheard

2014 *Effectively Managing Data from the Social Sciences: Challenges and Approaches to Making Social Science Data Accessible for the Long-Term*. Paper presented at the International Congress of Arctic Social Scientists VIII, Prince George British Columbia, May 22nd-26th.

****Strawhacker, Colleen**, Andrew Dugmore, Ann P. Kinzig, Keith Kintigh, Jonathan Sandor, Katherine Spielmann, Jon Norberg, Marty Anderies, and Margaret Nelson

2014 *Mediating a Landscape of Risk: A Comparative Case Study of the U.S. Southwest and the North Atlantic*. Paper presented at the Resilience Alliance 2014 Meeting. Montpellier, France, May 4th-8th.

****Strawhacker, Colleen** and Jonathan Sandor

2014 *Maintaining Soil Quality in Irrigated and Dryland Agricultural Fields: A Comparative Study of Upland and Lowland Environmental Impacts in the Hohokam Region in the*

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U.S. Southwest. Paper presented at the Annual Meeting for the Society for American Archaeology, Austin, April 24th-28th.

**** Strawhacker, Colleen,** Peter L. Pulsifer, and Shari Gearheard

2014 *Approaching a Plan for Cyberinfrastructure for Social Science Data from the Arctic.* Poster Presented at the International Digital Curation Conference, San Francisco, February 24th-28th.

**** Strawhacker, Colleen,** Peter L. Pulsifer, and Shari Gearheard

2013 *Digital Mediation: Digital Technologies for Knowledge Sharing and Enhancing Culture – Indigenous Knowledge in the Context of Data Intensive Science.* Paper presented at the World Social Science Forum, Montreal, October 12th-15th.

**** Strawhacker, Colleen**

2013 *Risk Landscapes of the Prehistoric U.S. Southwest.* Poster and Video presented at the Integrative Graduate Education and Research Traineeship Online Conference. Washington, DC.

**** Strawhacker, Colleen,** Ann P. Kinzig, Keith W. Kintigh, Katherine A. Spielmann, and Margaret C. Nelson

2013 *Modeling the Ecological Risk of Prehistoric Landscapes in the Southwestern United States.* Poster presented at the Society for American Archaeology Meetings, Honolulu, HI, April 3rd-7th.

McGovern, Thomas H., Jette Arneborg, Seth Brewington, Laura Comeau, Andrew Dugmore, George Hambrecht, Keith Kintigh, Christian Koch Madsen, Michelle Hegmon, Scott Ingram, Margaret C. Nelson, Richard Oram, Matthew A. Peeples, Brenda Shears, Ian Simpson, Konrad Smiarowski, Grant Snitker, Katherine Spielmann, **Colleen Strawhacker**, Andrea Torvinen, Orri Vésteinsson

2013 *Completed Long Term Experiments? Mobilizing Archaeology in the Anthropocene.* Paper presented at the Theoretical Archaeology Group Meetings, Chicago, May 9th-11th.

Torvinen, Andrea, Michelle Hegmon, Ann P. Kinzig, Margaret Nelson, Matthew Peeples, Karen Schollmeyer, **Colleen Strawhacker**, and Laura Swantek

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2013 *Transformation without Collapse: Two Cases from the American Southwest*. Paper presented at the Visiting Scholar Conference of the Center for Archaeological Investigations at Southern Illinois University, Carbondale, March 1st-2nd.

Camba, Matthew, Erica Warkus, **Colleen Strawhacker**, Sharon Hall and Jennifer Learned
2013 *Landscape Legacies Influence on Rock and Succulent Distribution*. Poster presented at the CAP-LTER Poster Symposium, Tempe, AZ, January 11th.

Warkus, Erica, Matthew Camba, Dana Nakase, **Colleen Strawhacker**, Jennifer Learned, and Sharon J. Hall

2012 *Spatial associations between surface rocks and succulents in a prehistorically active landscape*. Poster presented at the Annual Meeting of the Ecological Society of America, Portland, OR, August 5th – 10th.

**** Strawhacker, Colleen**

2012 *Response of O'odham Irrigated Agriculture to Colonial Forces on the Middle Gila River, Southern Arizona*. Paper presented at the Annual Meeting for the Society for American Archaeology, Memphis, TN, April 18th – 22nd.

Strawhacker, Colleen

2012 *The Ecological Impacts of Colonial Economies on O'odham Farmers on the Middle Gila River*. Poster presented at the Southwest Symposium, Albuquerque, NM, January 17th – 18th.

**** Strawhacker, Colleen and Frances M. Hayashida**

2011 *Prehispanic Irrigated Agricultural Soils on the North Coast of Peru: The Effects of Different Land Use Intensities on Agricultural Soil Quality*. Paper presented at the Society for American Archaeology Meetings, Sacramento, CA, March 30th – April 2nd.

****Nelson, Margaret, Michelle Hegmon, Keith Kintigh, Ann Kinzig, Ben Nelson, J. Mary Anderies, David Abbott, Katherine Spielmann, Scott Ingram, Matthew Peeples, Stephanie Kulow, Colleen Strawhacker, Cathryn Meegan**

2010 *Diversity and Resilience: What We Can Learn from the Archaeological Record, Part I. Messages from Past Societies on Biological Diversity: Exploitation of Nature,*

COLLEEN STRAWHACKER

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Worldview, and Human Evolution. Academic Workshop associated with the Convention on Biological Diversity, United Nations Environment Programme, 18-29 October, Nagoya, Japan.

** Strawhacker, Colleen

2010 *On the making of "Deserted: Forgetting Nature, Humanity, and History in the Salt and Gila River Beds."* Paper and Video presented at the Ecological Society of America Meetings, Pittsburgh, PA, August 1st – 6th.

** Strawhacker, Colleen

2010 *Interdisciplinary Approaches to Studying Prehistoric and Historic Water and Land Use in the Phoenix Basin, Arizona.* Poster presented at the Integrated Graduate Education and Research Traineeship (IGERT) National Science Foundation Conference, Washington, DC, May 23rd – 25th.

Strawhacker, Colleen and Frances M. Hayashida

2010 *Prehispanic Irrigated Soils on the North Coast of Peru: Preliminary Results from Soil Sampling on Agricultural Fields.* Poster presented at the Society for American Archaeology Meetings, St. Louis, MO, April 14th-18th, 2010.

** Cook, Elizabeth M., Colleen Strawhacker, Kelli L. Larson, and Sharon J. Hall

2009 *Values and other social drivers of the management and ecological properties of residential landscapes in Phoenix, Arizona.* Presented at the Session "Your Big Backyard Ecosystem: Lawns and Gardens as Foci for Understanding Urban Ecology and Sustainability," The Ecological Society of America Meetings, Albuquerque, NM, August 2nd – 7th.

Strawhacker, Colleen, Bethany Cutts, Kate Darby, Rebecca Hale, Elisabeth Larson, and Adam Thorman

2009 *Deserted: Forgetting Nature, Humanity, and History in the Salt and Gila River Beds.* **Video** presented at the Ecological Society of America Millennium Conference, Athens, GA. (https://www.youtube.com/watch?v=k_3Eg9rUpUs)

Cook, Elizabeth M., Sharon J. Hall, Kelli L. Larson, and **Colleen Strawhacker**

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2009 *An interdisciplinary, multi-scalar framework for understanding the social and ecological dynamics of residential landscapes: A case study in Phoenix, Arizona.* Poster presented at the Long-Term Ecological Project All Scientists Meeting, Estes Park, Colorado.

****Larson, Kelli L., Sharon J. Hall, Elizabeth M. Cook, Ben Funke, Colleen Strawhacker, and V. Kelly Turner**

2009 *Human drivers of management practices and ecological structure in Phoenix, Arizona.* Paper presented at Urban Wildlife Ecology & Management: An International Symposium on Urban Wildlife & the Environment, Amherst, MA, June 21st-24th.

Strawhacker, Colleen

2009 *Regional Dynamics of Animal Resource Use across the American Southwest: Understanding Vulnerabilities during Social Transformations.* Paper presented at The Society for American Archaeology Meetings, Atlanta, GA, April 26th – 30th, 2009.

Strawhacker, Colleen

2009 *Risk Mediation in Prehistoric Irrigation Communities: Exploring the Diversification of Farming Strategies in Arid Environments.* Poster presented at Frontiers in Life Sciences Conference, Tempe, AZ, February 27th, 2009.

Strawhacker, Colleen, Elizabeth M. Cook, Kelli L. Larson, and Sharon J. Hall

2009 *Landscape Preferences and Yard Management: The effects of homeowners' values on residential landscapes.* Poster presented at the CAP-LTER Poster Symposium, Tempe, AZ, January 15th, 2009.

**** Winner of the Best Conference Poster Award****

Strawhacker, Colleen

2008 *A Spatial Analysis of the Level of Constructedness of the Small Sites around Two Large Pueblos on Perry Mesa, Arizona.* Poster presented at The Society for American Archaeology Meetings, Vancouver, British Columbia, March 26th-30th, 2008.

Strawhacker, Colleen, Michelle Hegmon, Margaret C. Nelson, Matthew Peeples, Karen Gust Schollmeyer, and Steve Swanson

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2008 *Interaction and Diversity in the Postclassic Mimbres World: Results of the 2007 Field Season.* Poster presented at The Southwest Symposium, Tempe, AZ, January 17th-19th, 2008.

ORGANIZED SYMPOSIA

2018 *Indigenous Governance and Knowledge: Intersection of people, policy & priorities.* Session Organized by J. Bull, A. Perrin, **C. Strawhacker**, and S. Nickels, POLAR2018, Davos, Switzerland, June 15th-26th.

2017 *Research strategies to understand “people and place”: the challenges and opportunities of interdisciplinary work and co-production of knowledge.* Session Organized by L. Larson and **C. Strawhacker** for the International Congress of Arctic Social Scientists, Umea, Sweden, June 8th-12th.

2017 *Data, Databases, and Research Data.* Session Organized by **C. Strawhacker** and P. Buckland for the International Congress of Arctic Social Scientists, Umea, Sweden, June 8th-12th.

2017 *Building Relationships and Ethical Data Use in the Digital Age for Indigenous Knowledge and Social Science Data in the Arctic* Session Organized by **C. Strawhacker**, P. Pulsifer, C. Behe, J. Bull, E. Choy, S. Edmunds, D. Forbes, O. Lee, R. Rich, R. Riedlsperger, K. Tingmiak for Arctic Science Summit Week, Prague, Czech Republic, March 31st – April 7th

2016 *Challenges and Opportunities Moving Forward for The Management and Curation of Physical Objects in the Digital Era* Session Organized by **C. Strawhacker**, D. Hills, and H. McCann for SciDataCon 2016, International Data Week, September 12th-13th, Denver, CO
List of Participants: J. Mannes, C. Strawhacker, H. McCann, B. Losoff, J. Klump

2016 *Linking Local and Indigenous Communities with Researchers for Improving Access and Discovery of Ethically Open Data and Knowledge*

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Session Organized by J. Friddell, P. Pulsifer, **C. Strawhacker**, and D. Church for SciDataCon 2016, International Data Week, September 12th-13th, Denver, CO
List of Participants: A Presnall, C. Strawhacker, P. Pulsifer, J. Hunter, C. DuBois

2014 *The Role of Data Management in Enhancing Research and Policymaking for Sustainability in the Arctic*
Panel organized by **C. Strawhacker**, P.L. Pulsifer, and S. Gearheard for the International Congress of Arctic Social Sciences, May 22nd-26th, Prince George, British Columbia.

List of Participants: A. Presnall, A. Kerttula, D. Holen, N. Johnson, C. Strawhacker

2014 *Archaeological Studies of the Long-Term Resilience of Food Supplies to Climatic Shocks in Arid North America and the North Atlantic*
Session Organized by J. Freeman, **C. Strawhacker**, and A. Torvinen for the Resilience 2014 Conference, May 4th-8th, Montpelier, France

List of Participants: C. Strawhacker, J. Freeman, G. Hambrecht, and S. Brewington

2013 *Long-Term Vulnerability and Transformation in the Southwestern United States and Northern Mexico*
Poster Symposium organized by **C. Strawhacker** for the 78th Annual Meeting, Society for American Archaeology, April 3rd-7th, Honolulu, HI.

List of Participants: C. Strawhacker, K.G. Schollmeyer, S. Klassen, A. Torvinen, R. Harkness, P. Owens, W. Miles.

2011 *Approaches to Prehispanic Agricultural Soils in the New World*
Symposium organized by **C. Strawhacker** and M. Kruse-Peebles for the 76th Annual Meeting, Society for American Archaeology, March 30th -April 3rd, Sacramento, CA.
List of participants: M. Kruse-Peebles, C. Strawhacker, R. Powers, M. Goodman-Elgar, T. Beach, J. Homburg, G. Zaro, L. Purdue, J. Sandor, and C. Wells

SELECTED RESEARCH WORKSHOPS AND SEMINARS

2017 National Socio-Environmental Synthesis Center (SESYNC) Indigenous Communities: Promoting Social and Ecological Sustainability in the Face of Climate Change.

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Annapolis, Maryland. <https://sesync.org/project/propose-a-workshop/indigenous-communities-promoting-social-and-ecological-sustainability-in>

- 2017 National Socio-Environmental Synthesis Center (SESYNC) Qualitative Data Sharing. Annapolis, Maryland. <https://sesync.org/project/propose-a-workshop/qualitative-data-sharing>
- 2017 Assessing A Vision for Arctic Community Based Monitoring Workshop. Week of the Arctic Event, Fairbanks, Alaska, May 8th-9th
- 2016 Arctic Horizons - National Science Foundation Arctic Social Sciences Program Envisioning Workshops (<http://arctichorizons.org/>)
Cedar Falls, IA (Keynote Given), April 14th-16th
Monticello (Authoring of Final Report), September 23rd-24th
- 2015 New Generation of Polar Researchers Symposium. Catalina Island, May 2nd-9th.
- 2011-2014 Collaborative Workshop Meetings, Long-Term Vulnerability and Transformation Project (LTVTP) and the North Atlantic Biocultural Organization (NABO) on Climate Change Vulnerabilities in the U.S. Southwest and North Atlantic
Edinburgh, Scotland, September 20th-24th, 2011
San Diego, CA, September 19th-24th, 2012
Thelamork, Iceland, July 8th – 14th, 2013
Santa Fe, New Mexico, May 26th-29th, 2014.
- 2011 Cities of the Future: Sustainable Urban Planning and Water Management Conference and Workshop, Stockholm, Sweden. May 22nd – May 25th.
- 2010-2011 Preparing Future Faculty Seminar Program, Arizona State University, Tempe, AZ.
- 2010 COP10 (Conference of the Parties Convention on International Biodiversity) Conference, Nagoya, Japan. October 6th – 12th, 2010.

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- 2008 U.S. Southwest IHOPE (Integrated History and Future of People on Earth) Case Study Data Development Meeting. Santa Fe Institute, Santa Fe, NM.
<http://ihopenet.org/ltvtp/>
- 2004 *Environment, Economy, and Community in Latin America*, Higher Education Consortium for Urban Affairs, Guatemala City, Guatemala and Havana, Cuba (4 month study abroad program)

TEACHING EXPERIENCE

- 2010-present Adjunct Faculty, Mesa Community College, Mesa, AZ.
ASB 223: Buried Cities and Lost Tribes: The New World
Fall 2010, Spring 2011, 2012
ASB 222: Buried Cities and Lost Tribes: The Old World
Fall 2011, Spring 2012, Fall 2012 (2 sections)
ASB 226: Human Impacts on Ancient Environments (online class)
Spring 2012, 2013, 2017; Fall 2016, 2017
- 2009 Created and Taught Graduate Student Workshop on ESRI ArcGIS for the Graduate Students of the School of Human Evolution and Social Change
- 2008 Lab Director and Graduate Teaching Assistant, Arizona State University, Mogollon Prehistoric Landscapes Project and Field School (Project Directors: Margaret Nelson, Michelle Hegmon, Karen Schollmeyer and Steve Swanson)
- 2007 Graduate Teaching Assistant, Arizona State University, Mogollon Prehistoric Landscapes Project and Field School (Project Directors: Margaret Nelson, Michelle Hegmon, Karen Schollmeyer and Steve Swanson)

WEBINARS AND OUTREACH

COLLEEN STRAWHACKER

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- 2017 *Arctic Horizons: Forging Priorities for Arctic Social Sciences and NSF Funding.*
Webinar presented to the Interagency Arctic Research Policy Committee (IARPC) (co-presented with Shelby Anderson and Andrey Petrov):
https://www.youtube.com/watch?v=KrOpWo_iUjw
- 2016 *Bridging across data barriers: From Arctic permafrost to global connections.*
Webinar presented to the Interagency Arctic Research Policy Committee (IARPC) Arctic Data Collaboration Team (co-presented with Lynn Yarmey):
https://www.youtube.com/watch?v=G2du30dCf_U
- 2016 *Science Representative, Haskell Indian Nations STEM Student Panel, NOAA, Boulder, CO*
- 2015 *From Bugs to Archaeology to Sagas: Discovering and Integrating Data to Study the Long-Term Human Ecodynamics of the North Atlantic.* Presentation made at International Archaeology Day, University of Colorado Boulder.
- 2014 *The Role of Traditional and Local Knowledge in Understanding Climate Change.*
Webinar provided to the National Park Service, Climate Change in America's Parks Webinar Series.
- 2014 *Indigenous Knowledge management through Information and Communication Technologies.* Webinar provided to the Association of Polar Early Career Scientists (co-presented with Heidi McCann and Peter Pulsifer): <http://www.apecs.is/career-resources/apecs-webinars/past-webinars/details/10/8.html>
- 2014 *I Don't Know GIS, but I Know How to Solve Problems in GIS.* An invited lecture and workshop provided to graduate students in Anthropology and Classics. University of Colorado, Boulder.
- 2011 *Sonoran Desert Water and Agriculture Series.* A series of three invited lectures (Prehistory, Early History, Present and Future) presented at the Desert Botanical Garden, Phoenix, Arizona.

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2006 Interpretation Intern at Hovenweep National Monument, Student Conservation Association. Cortez, CO

SELECTED PROFESSIONAL SERVICE

2016-2018 Steering Committee, Arctic Horizons, A Re-envisioning Process for the Arctic Social Sciences Program at the National Science Foundation

2017-present Advisory Board, Center for Research Data and Digital Scholarship (CRDDS), University of Colorado, Boulder

2016-present Science Steering Committee Member, National Science Foundation Arctic Data Center (arcticdata.io)

2015-present Member, International Arctic Data Committee (arcticdcn.org)

2008-2013 Listed Resource Person for Fellowship Applicants, National Science Foundation Graduate Research Fellowship Program

2010 Member of the Steering Committee for the Graduates in Integrative Society and Environment Research (GISER), an organization aimed at institutionalizing the IGERT in Urban Ecology program at Arizona State University

PROFESSIONAL MEMBERSHIPS

International Arctic Social Science Association

The Society for American Archaeology

American Anthropological Association

American Geophysical Union

SPECIAL SKILLS

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Archaeological:

Pollen Extraction and Identification

Soil Classification and Analysis

Ceramic Analysis

Flotation Processing

Lithic Analysis

Groundstone Analysis

Computer:

ESRI ArcGIS

Adobe Master Collection CS6

Several Statistical Packages, including SigmaPlot and SPSS

Familiar with both Windows and Macintosh Platforms

LANGUAGES

Spanish; Conversational