

# COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

**FEBRUARY 2020**

## POSITIONS HELD

---

- 2018-present Associate Program Director  
Arctic Sciences Section, Office of Polar Programs, National Science Foundation
- 2018-present Research Scientist II  
National Snow and Ice Data Center, University of Colorado Boulder  
*(on leave while on detail at the National Science Foundation)*
- 2014-2018 Research Scientist I  
National Snow and Ice Data Center, University of Colorado Boulder
- 2013-2015 Council for Library and Information Resources (CLIR) Postdoctoral Fellow  
National Snow and Ice Data Center, University of Colorado Boulder  
*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  
*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
- 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*

## MANAGEMENT, ADMINISTRATIVE, AND FEDERAL EXPERIENCE

---

- 2018-2020 Lead Program Director, Arctic Social Sciences Program (Annual Budget ~\$7 million)  
Office of Polar Programs, National Science Foundation
- 2018-present Co-Lead Program Director, Arctic System Science Program (Annual Budget ~\$12 million),  
Office of Polar Programs, National Science Foundation
- 2018-present Program Director, Cyberinfrastructure Group (Annual Budget ~\$10 million)  
Geosciences Directorate, National Science Foundation

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- 2018-present Program Director, Navigating the New Arctic (Annual Budget of ~\$30 million)  
Cross-Directorate Initiative, National Science Foundation
- 2019-present Program Director, Coastlines and People (Annual Budget of ~\$15 million)  
Cross-Directorate Initiative, National Science Foundation
- 2018-present Federal Co-Lead, Coastal Resilience Collaboration Team  
Interagency Arctic Research Policy Committee (IARPC)
- 2019-present Co-Founder and Federal Lead, Diversity and Inclusion Working Group  
Interagency Arctic Research Policy Committee (IARPC)
- 2018-present Member, Social Science Coordinating Committee  
United States Global Change Research Program (USGCRP)

### EXPERTISE SUMMARY

---

Leading international, interdisciplinary, collaborative teams on socioecological research on human ecodynamics, vulnerability, and resilience • Managing program budgets of over \$10 million dollars • Creating and implementing quantitative and qualitative social science data analysis on risk and vulnerability of communities (including coastal) to environmental change • Leading the peer review process for hundreds of scientific proposals at the National Science Foundation • Building and managing large international and collaborative teams of stakeholders, including coastal communities, for international meetings and workshops • Planning short and long-term goals for social science projects with budgets of over \$1,500,000 • Performing statistical analyses for modeling social science data in interdisciplinary contexts • Providing peer reviews to multiple scientific journals and federal agency grant competitions

### 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 #1745499 (\$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 #1749243 (\$49,547)

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

*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

- 2016-2020 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, Thomas McGovern
- 2016-2019 National Science Foundation Polar Programs Grant #1513438 (\$1,653,078)  
*Collaborative Research: ELOKA Phase IV: Optimizing Data Management Support for Community-Based Research and Observations Contributing to Arctic Science*  
PI: Peter Pulsifer / Co-PIs: **Colleen Strawhacker**, Shari Fox, Ruth Duerr
- 2014-2018 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
- 2014-2018 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 and Research and Travel Support

- 2013-2015 Council for Library and Information Resources (CLIR) Postdoctoral Fellowship
- 2006-2011 National Science Foundation Graduate Research Fellowship (NSF GRFP)
- 2006-2013 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)
- 2004 National Science Foundation Research Experience for Undergraduates Grant (REU), Pennsylvania State University, North Orkney Population History Project, Scotland
- 2003 National Science Foundation Research Experience for Undergraduates Grant (REU), Research Assistant to Dr. Frances Hayashida, Pennsylvania State University, University Park, PA

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

### 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, Colleen**, Grant Snitker, Matthew Peeples, Jacob Freeman, Ann Kinzig, Keith Kintigh, Kyle Bocinsky, Margaret Nelson, Jonathan Sandor, Katherine Spielmann, and Brad Butterfield  
In press A Landscape Perspective on Climate-Driven Risks to Food Security: Exploring the Relationship between Climate and Social Transformations in the Prehispanic U.S. Southwest. Forthcoming in *American Antiquity*.

Johnson, Noor, Peter Pulsifer, and **Colleen Strawhacker**  
In press Data Infrastructures, Indigenous Knowledge, and Environmental Observing in the Arctic. Forthcoming in *The Nature of Data: Infrastructures, Environments, Politics*.

Alexander, Steven, Krystal Jones, Nathan Bennett, Michael Cox, Merce Crosas, Edward Game, Janis Geary, R. Dean Hardy, Jay Johnson; Sebastian Karcher, Nicole Motzer, Jeremy Pittman, Heather Randell, Julie Silva, Patricia Pinto da Silva, Carly Strasser, **Colleen Strawhacker**, Andrew Stuhl, Nic Weber  
2019 Enhancing sustainability science, policy, and practice through qualitative data sharing. *Nature Sustainability*: 1-8. doi:10.1038/s41893-019-0434-8

Jäger, Mary Beth, Carolina Behe, Daniel B. Ferguson, Orville Huntington, Anita Kora, Michael Kotutwa Johnson, Noor Johnson, Amy Juan, Shawna Larson, Peter Pulsifer, Tristan Reader, **Colleen Strawhacker**, Althea Walker, Denali Whiting, Jamie Wilson, Janene Yazzie, Stephanie Carroll Rainie and the rest of the Indigenous Foods Knowledges Network (IFKN)  
2019 Building an Indigenous Foods Knowledges Network Through Relational Accountability. *Journal of Agriculture, Food Systems, and Community Development* 9(B): 45-51.  
<https://doi.org/10.5304/jafscd.2019.09B.005>

**Strawhacker, Colleen**, Grant Snitker, Katherine Spielmann, Maryann Wasiolek, Jonathan Sandor, Ann Kinzig, and Keith Kintigh  
2017 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., pp. 103-118. University of Arizona Press, Tucson

#### **Strawhacker, Colleen**

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • [www.colleenstrawhacker.com](http://www.colleenstrawhacker.com)

2017 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* Fall 2017 (Issue 1)

### 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.

\* This edited volume was awarded the Arizona Literary Award (non-fiction category)

\* 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

**Strawhacker, Colleen**, Thomas McGovern, Emily Lethbridge, Philip Buckland, Gisli Pálsson, 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 Irragic 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-Peeples, 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

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

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:

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 and Datasets

Pulsifer, P., **C. Strawhacker**, S. Fox, N. Johnson and the ELOKA Team

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 for Arctic Indigenous Communities.

**Strawhacker, C.**, A. Brin, R. Opitz, P. Buckland, P. Pulsifer, G. Palsson, E. Lethbridge, T. McGovern, T. Dawson, R. Streeter, A. Newton, T. Ryan

2017 Operational dataARC Tool (beta version - still in development). <http://beta.data-arc.org/>.

**Strawhacker, C.**, A. Brin, R. Opitz, P. Pulsifer, P. Buckland, G. Palsson, E. Lethbridge, T. McGovern, A. Fridriksson, and T. Dawson

2015 Initial dataARC (cyberNABO) Prototype Tool. <http://data-arc.org/prototype/>.

As a member of the Long-Term Vulnerability and Transformation Project (LTVTP) Team

2014 General Resources from the Long-Term Vulnerability and Transformation Project. Archived with The Digital Archaeological Record (tDAR). doi:10.6067/XCV8XK8GXF

**Strawhacker, C.**

2013 Data on Soils Collected from Prehispanic and Historic Fields on the Middle Gila River. Archived with The Digital Archaeological Record (tDAR). doi:10.6067/XCV8BG2PWF.

**Strawhacker, C.**

2010 Data on Soils Collected on the Pampa de Chaparri on the North Coast of Peru. Archived with The Digital Archaeological Record (tDAR). doi:10.6067/XCV86Q1Z4V.

### **Not Peer-Reviewed**

Johnson, N., Danielsen, F., Fidel M., Pulsifer, P., Iversen, L., Eicken, H., Lee, O., Hauser, D., Køie Poulsen, M., **Strawhacker, C.**, Bell, T., Loseto, L., Druckenmiller, M., Cunsolo, A., Gillis, D., Shiwak, I., Nickels, S., Divine, L., Chapin III, S.

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • [www.colleenstrawhacker.com](http://www.colleenstrawhacker.com)

- 2018 *Community-based monitoring infrastructures for pan-Arctic observing: Policy-regulatory, technological, social, and economic dimensions*. White Paper Submitted to the 2018 Arctic Observing Summit.
- Jones, K., Alexander, S.M., Bennett, N., Bishop, L., Budden, A., Cox, M., Crosas, M., Game, E., Geary, J., Hahn, C., Hardy, D., Johnson, J., Karcher, S., LaFevor, M., Motzer, N., Pinto da Silva, P., Pittman, J., Randell, H., Silva, J., Smith, J., Smorul, M., Strasser, C., **Strawhacker, C.**, Stuhl, A., Weber, N., Winslow, D.
- 2018 *Qualitative data sharing and re-use for socio-environmental systems research: A synthesis of opportunities, challenges, resources and approaches*. SESYNC White Paper.  
DOI:10.13016/M2WH2DG59. Permanent url: <http://hdl.handle.net/1903/20257>
- Anderson, S., **Strawhacker, C.**, Presnall, A., et al.
- 2018 *Arctic Horizons, Final Report*. Produced by the Jefferson Institute. Accessed here:  
<http://arctichorizons.org/final-report#overlay-context=final-report>
- 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. DOI: 10.13140/RG.2.2.15887.28322
- 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. Available:  
[https://arcticdc.org/images/download/Polar\\_Data\\_Interoperability\\_Resource\\_Requirements\\_Submission\\_NO\\_COST.pdf](https://arcticdc.org/images/download/Polar_Data_Interoperability_Resource_Requirements_Submission_NO_COST.pdf)
- 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-Peeples, 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*

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

Report on File at Arizona State University, Global Institute of Sustainability.

Kruse, Melissa, Will G. Russell, Hoski Schaafsma, **Colleen Strawhacker**, and JoAnn Wallace  
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 and available on The Digital Archaeological Record (doi:10.6067/XCV89Z96VQ).

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 and available on The Digital Archaeological Record (doi:10.6067/XCV8WM1H2W).

### FIELD AND RESEARCH EXPERIENCE

---

- 2017-2018 Lead Principal Investigator, Indigenous Foods and Knowledges Network (ifkn.org)
- 2014-2018 Lead Principal Investigator, dataARC Project (data-arc.org)
- 2015-2018 Managing Director and Co-PI, Exchange for Local Observations and Knowledge in the Arctic (ELOKA, eloka-arctic.org)
- 2013-2016 Consultant, Long Term Vulnerability and Transformation Project  
National Science Foundation Coupled Natural-Human Systems (CNH) Project  
Arizona State University (Project PI: Margaret Nelson)
- 2014-2015 Archaeologist, Skútustaðahreppur Midden Survey in Myvatn, Iceland (Project P.I: Megan Hicks), the Kumlabrekka Testing Project (Project PI: Adolf Fridriksson), and the Hofstaðir Cemetery Excavation (Project PI: Hildur Gestdottir)
- 2010-2013 Dissertation Research Project, Ancient Agricultural Soils on the Middle Gila River and North Coast of Peru, (Project PI: 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 PI: Margaret Nelson)
- 2007-2013 Archaeologist, 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 (CAP-LTER), Arizona State University (Supervisor: Katherine Spielmann)



## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- 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 (Supervisor: Erin Baxter)
- 2004 Field Technician, National Science Foundation Research Experience for Undergraduates Field School (NSF REU), 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 Archaeology Research Assistant to Dean Snow and Claire Milner, Matson Museum of Anthropology, Department of Anthropology, Pennsylvania State University
- 2003 Archaeology Research Intern (Field)  
Crow Canyon Archaeological Center (Project Director: Susan Ryan)  
\*\* Carhart Fellowship, awarded to the intern who made the largest contribution to the center during their tenure\*\*
- 2002 Archaeology Field School, Arizona State University Field School, Eastern Mimbres Archaeological Project (Project Directors: Margaret Nelson and Michelle Hegmon)
- 2002 Archaeology Lab Assistant to Timothy Scheffler, Mesoamerican Archaeology Lab, Department of Anthropology, Pennsylvania State University

### PANELS

---

- 2020 *A Day in the Life of Noah Piugattuk, Mother Tongue Film Festival*  
Smithsonian's National Museum of Natural History, the National Museum of the American Indian, and the Center for Folklife and Cultural Heritage, February 23<sup>rd</sup>
- 2020 *Navigating the New Arctic at the National Science Foundation*  
Government-University-Industry Research Roundtable  
National Academies of Science, February 20<sup>th</sup>
- 2019 *The Next 100 Years of Cryosphere*  
American Geophysical Union, San Francisco, December 9<sup>th</sup> - 13<sup>th</sup>  
Conveners: Jeffrey Deems, Lora Koenig, Andrew Barrett, and Emilio Ian Mateo

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- 2019 *Considerations for Emerging Research: Capacity and Scale*  
Arctic Futures 2050, Washington DC, September 3<sup>rd</sup>-5<sup>th</sup>  
Convener: Brendan Kelly
- 2019 *Arctic Science*  
8<sup>th</sup> Symposium on The Impacts of an Ice-Diminishing Arctic on Naval and Maritime  
Operations, Washington, DC, July 17<sup>th</sup>-18<sup>th</sup>  
Convener: John Farrell
- 2018 *From Entering the Field to Taking the Helm, Women's Perspectives on Polar Research*  
POLAR2018, Davos, Switzerland, June 18<sup>th</sup> – 23<sup>rd</sup>  
Conveners: Sandy Starkweather, Renuka Badhe, Sara Bowden, Allen Pope
- 2017 *Receiving Credit Where Credit is Due: Overcoming Barriers to Effective Data Sharing for  
Collaborative, Transdisciplinary Research*  
American Geophysical Union, New Orleans, December 11<sup>th</sup>-15<sup>th</sup>  
Conveners: Barron Orr, Amber Budden, Robert Gurney and Patricia Cruise
- 2017 *What Good is Secondhand Digital Data?*  
Society for American Archaeology Annual Meeting, Vancouver, April 11<sup>th</sup>-15<sup>th</sup>  
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 18<sup>th</sup>-22<sup>nd</sup>  
Conveners: Kelly Gwynn and Heidi McCann

### INVITED KEYNOTES

---

#### Strawhacker, Colleen

- 2019 *Data and Cyberinfrastructure for Arctic Research*  
Transdisciplinary Research on the Changing Arctic and Its Global Impacts: Enhancing  
Capacity for Convergence Science, University of California Irvine.  
<https://youtu.be/JiDxLWh-3Ds>

#### Pulsifer, Peter, and Colleen Strawhacker

- 2017 *Arctic Observations, Data and Society: Using Systems Science and Mediation to Enhance  
Information Flow for Sustainability*  
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

- 2017 *How do We Measure Value in Data Reuse? Nuancing Ethical Data Sharing and  
Attribution for the Social Sciences and Indigenous Knowledge*  
2017 National Data Integrity Conference, Fort Collins, CO

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

### 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*  
Arctic Horizons Workshop in Cedar Falls, Iowa

### ORGANIZED CONFERENCE SYMPOSIA AND WORKSHOPS

---

- 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 15<sup>th</sup>-26<sup>th</sup>.
- 2018 *Linking Data from Archaeology, the Humanities, and Ecology: Testing Tools to Encourage Data-Driven Interdisciplinary Research*  
Workshop Organized by **C. Strawhacker** and R. Opitz  
Computer Applications and Quantitative Methods in Archaeology (CAA 2018)  
Meeting, Tübingen, Germany, March 16<sup>th</sup>-18<sup>th</sup>
- 2018 *Connectivity: linking and interpreting the archaeological record*  
Session Organized by G. Palsson, **C. Strawhacker**, and R. Opitz  
Computer Applications and Quantitative Methods in Archaeology (CAA 2018)  
Meeting, Tübingen, Germany, March 16<sup>th</sup>-18<sup>th</sup>
- 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**  
International Congress of Arctic Social Scientists (ICASS), Umea, Sweden, June 8<sup>th</sup>-12<sup>th</sup>
- 2017 *Data, Databases, and Research Data*  
Session Organized by **C. Strawhacker** and P. Buckland  
International Congress of Arctic Social Scientists (ICASS), Umea, Sweden, June 8<sup>th</sup>-12<sup>th</sup>
- 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  
Arctic Science Summit Week, Prague, Czech Republic, March 31<sup>st</sup> – April 7<sup>th</sup>
- 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  
SciDataCon 2016, International Data Week, Denver, CO, September 12<sup>th</sup>-13<sup>th</sup>
- 2016 *Linking Local and Indigenous Communities with Researchers for Improving Access and Discovery of Ethically Open Data and Knowledge*  
Session Organized by J. Friddell, P. Pulsifer, **C. Strawhacker**, and D. Church  
SciDataCon 2016, International Data Week, Denver, CO, September 12<sup>th</sup>-13<sup>th</sup>

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- 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  
International Congress of Arctic Social Sciences, Prince George, British Columbia, May 22<sup>nd</sup>-26<sup>th</sup>
- 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  
Resilience 2014, Montpellier, France, May 4<sup>th</sup>-8<sup>th</sup>
- 2013 *Long-Term Vulnerability and Transformation in the Southwestern United States and Northern Mexico*  
Poster Symposium organized by **C. Strawhacker**  
78<sup>th</sup> Annual Meeting, Society for American Archaeology, Honolulu, HI, April 3<sup>rd</sup>-7<sup>th</sup>
- 2011 *Approaches to Prehispanic Agricultural Soils in the New World*  
Symposium organized by **C. Strawhacker** and M. Kruse-Peebles  
76<sup>th</sup> Annual Meeting, Society for American Archaeology, Sacramento, March 30<sup>th</sup> - April 3<sup>rd</sup>

### SELECTED RESEARCH WORKSHOPS, SEMINARS, AND TRAINING

---

- 2020 *6 Critical Practices of Leading a Team*  
National Science Foundation, February 12th
- 2019 *Transdisciplinary Research on the Changing Arctic and its Global Impacts: Enhancing Capacity for Convergence Science*  
University of California Irvine, October 31<sup>st</sup>-November 1<sup>st</sup>  
<https://www.socsci.uci.edu/newsevents/events/2019/2019-10-31-convergence-science.php>
- 2019 Mentor for the *Next Generation of Polar Researchers Symposium*  
Catalina Island, May 2<sup>nd</sup>-9<sup>th</sup>
- 2018 *Improving our understanding of extreme events in the Arctic using a cross-disciplinary approach International Arctic Science Committee (IASC) side workshop*  
POLAR2018, Davos, Switzerland, June 15<sup>th</sup>-26<sup>th</sup>
- 2017 *National Socio-Environmental Synthesis Center (SESYNC) Indigenous Communities: Promoting Social and Ecological Sustainability in the Face of Climate Change.*  
Annapolis, Maryland. <https://sesync.org/project/propose-a-workshop/indigenous-communities-promoting-social-and-ecological-sustainability-in>

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- 2017 National Socio-Environmental Synthesis Center (SESYNC) *Qualitative Data Sharing Working Group*. 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 8<sup>th</sup>-9<sup>th</sup>
- 2016 *Arctic Horizons - National Science Foundation Arctic Social Sciences Program Envisioning Workshops* (<http://arctichorizons.org/>)  
Cedar Falls, IA (Keynote Given), April 14<sup>th</sup>-16<sup>th</sup>  
Monticello (Authoring of Final Report), September 23<sup>rd</sup>-24<sup>th</sup>
- 2015 *Scholar, Next Generation of Polar Researchers Symposium*  
Catalina Island, May 2<sup>nd</sup>-9<sup>th</sup>.
- 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 20<sup>th</sup>-24<sup>th</sup>, 2011  
San Diego, CA, September 19<sup>th</sup>-24<sup>th</sup>, 2012  
Thelamork, Iceland, July 8<sup>th</sup> – 14<sup>th</sup>, 2013  
Santa Fe, New Mexico, May 26<sup>th</sup>-29<sup>th</sup>, 2014
- 2011 *Cities of the Future: Sustainable Urban Planning and Water Management Conference*  
Stockholm, Sweden, May 22<sup>nd</sup> – May 25<sup>th</sup>
- 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 6<sup>th</sup> – 12<sup>th</sup>, 2010
- 2008 U.S. Southwest IHOPE (Integrated History and Future of People on Earth) Case Study  
Data Development Meeting, Santa Fe Institute
- 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)

### UNIVERSITY TEACHING EXPERIENCE

---

- 2010-2018 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*

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • [www.colleenstrawhacker.com](http://www.colleenstrawhacker.com)

Fall 2011, Spring 2012, Fall 2012 (2 sections)  
*ASB 226: Human Impacts on Ancient Environments (online class)*  
Spring 2012, 2013, 2017, 2018; 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 PUBLIC OUTREACH

---

- 2019-2020 *Navigating the New Arctic Office Hours*  
National Science Foundation: <https://www.nsf.gov/geo/opp/arctic/nna/index.jsp>
- 2019-2020 *National Science Foundation Program Officer Chats*  
Interagency Arctic Research Policy Committee (IARPC)
- 2017 *Arctic Horizons: Forging Priorities for Arctic Social Sciences and NSF Funding*  
Interagency Arctic Research Policy Committee (IARPC) (with Shelby Anderson and Andrey Petrov): [https://www.youtube.com/watch?v=KropWo\\_iUjw](https://www.youtube.com/watch?v=KropWo_iUjw)
- 2016 *Bridging across data barriers: From Arctic permafrost to global connections*  
Interagency Arctic Research Policy Committee (IARPC) Arctic Data Collaboration Team (with Lynn Yarmey): [https://www.youtube.com/watch?v=G2du3odCf\\_U](https://www.youtube.com/watch?v=G2du3odCf_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*  
International Archaeology Day, University of Colorado Boulder
- 2014 *The Role of Traditional and Local Knowledge in Understanding Climate Change*  
National Park Service, Climate Change in America's Parks Webinar Series.
- 2014 *Indigenous Knowledge management through Information and Communication Technologies* (with Heidi McCann and Peter Pulsifer)  
Association of Polar Early Career Scientists (APECS)
- 2014 *I Don't Know GIS, but I Know How to Solve Problems in GIS*

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • [www.colleenstrawhacker.com](http://www.colleenstrawhacker.com)

Anthropology and Classics Departments, University of Colorado Boulder

- 2011      *Sonoran Desert Water and Agriculture Series*, Three invited lectures (Prehistory, Early History, Present and Future)  
Desert Botanical Garden, Phoenix, Arizona.
- 2006      *Interpretation Intern at Hovenweep National Monument*, National Park Service  
Student Conservation Association, Cortez, CO

### SELECTED PROFESSIONAL SERVICE

---

Peer Reviewer for *Ecology and Society*, *Journal of Archaeological Method and Theory*, *Environmental Research Letters*, *Data Science Journal*, *Kiva: Journal of Southwestern Archaeology and History*, proposals to the National Science Foundation, National Endowment for the Humanities, the Bureau of Indian Affairs Tribal Resilience Program, and selected edited volumes.

- 2019-present      Advisory Board Member, Council for Library and Information Resources (CLIR)  
Postdoctoral Fellowship Program
- 2016-2018      Steering Committee, Arctic Horizons, A Re-envisioning Process for the Arctic Social  
Sciences Program at the National Science Foundation
- 2017-2019      Advisory Board, Center for Research Data and Digital Scholarship (CRDDS)  
University of Colorado, Boulder
- 2016-2018      Science Steering Committee Member  
National Science Foundation Arctic Data Center ([arcticdata.io](http://arcticdata.io))
- 2015-2019      Member, International Arctic Data Committee ([arcticdcn.org](http://arcticdcn.org))
- 2008-2013      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

### MAJOR CONFERENCE PRESENTATIONS

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

---

\*\* *Invited*

\*\*Fertelmes, Craig and **Colleen Strawhacker**

2020 *You Reap What You Sow: Long-term Consequences of Divergent Hohokam Subsistence Strategies in the Queen Creek Drainage of South-central Arizona*. Society for American Archaeology Annual Meeting, Austin, March 31<sup>st</sup>-April 3<sup>rd</sup>

\*\***Strawhacker, Colleen**

2019 *Meeting the Opportunities and Challenges of the Navigating the New Arctic Program at the National Science Foundation*. Paper presented at the American Geophysical Union Annual Meeting, San Francisco, December 9<sup>th</sup>-13<sup>th</sup>.

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

2018 *Driving interdisciplinary data search for studies of long-term human ecodynamics in the North Atlantic*. Paper presented at POLAR 2018, Davos, Switzerland, June 19<sup>th</sup>-23<sup>rd</sup>.

\*\***Strawhacker, Colleen** Peter Pulsifer, Noor Johnson, and Shari Fox

2018 *Data Sovereignty for Indigenous Communities in the Arctic: Ensuring Ethical Control of Information and Knowledge for Indigenous Partners through Digital Tools*. Paper presented **at both** the Society for American Archaeology Meetings, Washington DC, April 11<sup>th</sup>-15<sup>th</sup> and POLAR 2018 Davos, Switzerland, June 19<sup>th</sup>-23<sup>rd</sup>.

\*\***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 31<sup>st</sup>-September 2<sup>nd</sup>.

\*\***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 31<sup>st</sup>-April 3<sup>rd</sup>

\*\*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 31<sup>st</sup>-April 3<sup>rd</sup>.

\*\***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 4<sup>th</sup>-7<sup>th</sup>.

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



## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

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 4<sup>th</sup>-7<sup>th</sup>.

**\*\*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 8<sup>th</sup>-12<sup>th</sup>.

**\*\*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 8<sup>th</sup>-12<sup>th</sup>.

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 12<sup>th</sup> – 16<sup>th</sup>.

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 12<sup>th</sup> – 16<sup>th</sup>.

**\*\*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 12<sup>th</sup>-13<sup>th</sup>.

**\*\*Strawhacker, Colleen**  
2016 *Introduction and Overview to Data Curation in the Arctic Social Sciences.* Paper presented at SciDataCon 2016, Denver, September 12<sup>th</sup>-13<sup>th</sup>.

**\*\*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 6<sup>th</sup>-10<sup>th</sup>.

**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 27<sup>th</sup>-29<sup>th</sup>.  
**\*\*Won Award for Best Poster by an Early Career Researcher\*\***

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

- \*\* 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 15<sup>th</sup>-19<sup>th</sup>.
- \*\* 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 22<sup>nd</sup>-26<sup>th</sup>.
- \*\* 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 4<sup>th</sup>-8<sup>th</sup>.
- \*\* 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 U.S. Southwest*. Paper presented at the Annual Meeting for the Society for American Archaeology. Austin, April 24<sup>th</sup>-28<sup>th</sup>.
- \*\* 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 24<sup>th</sup>-28<sup>th</sup>.
- \*\* 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 12<sup>th</sup>-15<sup>th</sup>.
- \*\* 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 3<sup>rd</sup>-7<sup>th</sup>.
- McGovern, Thomas H., Jette Arneborg, Seth Brewington, Laura Comeau, Andrew Dugmore, George Hambrecht, Keith Kintigh, Christian Koch Madsen, Michelle Hegmon, Scott Ingram, Margaret C.

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

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 9<sup>th</sup>-11<sup>th</sup>.

Torvinen, Andrea, Michelle Hegmon, Ann P. Kinzig, Margaret Nelson, Matthew Peeples, Karen Schollmeyer, **Colleen Strawhacker**, and Laura Swantek  
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 1<sup>st</sup>-2<sup>nd</sup>.

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 11<sup>th</sup>.

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 5<sup>th</sup> – 10<sup>th</sup>.

### **\*\* 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 18<sup>th</sup> – 22<sup>nd</sup>.

### **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 17<sup>th</sup> – 18<sup>th</sup>.

### **\*\* 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 30<sup>th</sup> – April 2<sup>nd</sup>.

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

### **\*\* Strawhacker, Colleen**

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • [www.colleenstrawhacker.com](http://www.colleenstrawhacker.com)

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 1<sup>st</sup> – 6<sup>th</sup>.

### \*\* 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 23<sup>rd</sup> – 25<sup>th</sup>.

### 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 14<sup>th</sup>-18<sup>th</sup>, 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 2<sup>nd</sup> – 7<sup>th</sup>.

### 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\\_3EggrUpUs](https://www.youtube.com/watch?v=k_3EggrUpUs))

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

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 21<sup>st</sup>-24<sup>th</sup>.

### 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 26<sup>th</sup> – 30<sup>th</sup>, 2009.

### Strawhacker, Colleen

## COLLEEN STRAWHACKER

Associate Program Director • Arctic Sciences Section • Office of Polar Programs • National Science Foundation •  
ORCID: 0000-0002-3939-8445 • www.colleenstrawhacker.com

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 27<sup>th</sup>, 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 15<sup>th</sup>, 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 26<sup>th</sup>-30<sup>th</sup>, 2008.

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

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