

Understanding Diverse Disciplinary Needs and Incentivizing Data Publication and Reuse

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NSF Award #1635593 and #1841338



Natural Hazards Center



CONVERGE



Message 1: Find or Develop a Common “Home” for Your Data Resources



2018-2020:
Co-developed and
extensively pilot
tested the **first**
social science and
interdisciplinary
data model for
hazards and
disaster research





If You Build It They Will Come



ARTICLE



<https://doi.org/10.1057/s41599-023-01831-7>

OPEN

Perceived benefits of open data are improving but scientists still lack resources, skills, and rewards

Joshua Borycz¹, Robert Olendorf², Alison Specht³, Bruce Grant⁴, Kevin Crowston⁵, Carol Tenopir⁶, Suzie Allard⁶, Natalie M. Rice⁶, Rachael Hu⁷ & Robert J. Sandusky^{8,9}

Addressing global scientific challenges requires the widespread sharing of consistent and trustworthy research data. Identifying the factors that influence widespread data sharing will help us understand the limitations and potential leverage points. We used two well-known theoretical frameworks, the Theory of Planned Behavior and the Technology Acceptance Model, to analyze three DataONE surveys published in 2011, 2015, and 2020. These surveys aimed to identify individual, social, and organizational influences on data-sharing behavior. In this paper, we report on the application of multiple factor analysis (MFA) on this combined, longitudinal, survey data to determine how these attitudes may have changed over time. The first two dimensions of the MFA were named *willingness to share* and *satisfaction with resources* based on the contributing questions and answers. Our results indicated that both dimensions are strongly influenced by individual factors such as perceived benefit, risk, and effort. *Satisfaction with resources* was significantly influenced by social and organizational factors such as the availability of training and data repositories. Researchers that improved in *willingness to share* are shown to be operating in domains with a high reliance on shared resources, are reliant on funding from national or federal sources, work in sectors where internal practices are mandated, and live in regions with highly effective communication networks. Significantly, *satisfaction with resources* was inversely correlated with *willingness to share* across all regions. We posit that this relationship results from researchers learning what resources they actually need only after engaging with the tools and procedures extensively.

“Social scientists (−0.592) were far less willing to share [data] than researchers in the physical sciences, natural sciences, and information sciences.”

“Here the importance of social or community norms is paramount. For social scientists and other similar domain specialties work is more individual, resulting in them being late adopters of the open data concept.”

¹Vanderbilt University, Nashville, TN, USA. ²North Carolina State University, Raleigh, NC, USA. ³TERN, University of Queensland, Brisbane, Australia. ⁴Widener University, Chester, PA, USA. ⁵Syracuse University, Syracuse, NY, USA. ⁶University of Tennessee, Knoxville, TN, USA. ⁷California Digital Library, Oakland, CA, USA. ⁸University of Illinois at Chicago, Chicago, IL, USA. ⁹Deceased: Robert J. Sandusky. ✉email: joshuaborycz@vanderbilt.edu

Creating a Culture Shift:

How can we support and incentivize the social science hazards and disaster research community to publish and reuse research protocols, instruments, and data?





Message 2: Offer Interactive Trainings, Templates, and Financial Incentives for Instrument and Data Publication and Reuse



CONVERGE | Natural Hazards Center

INSTITUTE OF BEHAVIORAL SCIENCE

converge.colorado.edu/data/[About CONVERGE](#) ■ [Research Networks](#) ■ [Resources](#) ■ [Data](#) ■ [Communications](#) ■

Publish Your Data! Events

Learn more about the Publish Your Data! training sessions for social and behavioral scientists. These events are organized to inform members of the natural hazards research community about possibilities for publishing data, research instruments, protocols, and other materials.

[Overview](#)[Event Videos and Documents](#)

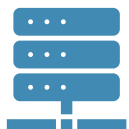
Data Ambassadors

CONVERGE Data Ambassadors have completed a Publish Your Data! training session and have published their own data or instruments on DesignSafe. They also share their newly attained knowledge with colleagues in the hazards and disaster field. CONVERGE Data Ambassadors are helping to usher in a culture shift toward data publication and data and instrument sharing across disciplines.

[Meet Our Ambassadors](#)

CONVERGE

Data Ambassador Checklist



Prepare protocols,
instruments, data for
curation



Attend a 3-hour virtual
Publish Your Data!
training session



Meet w/ Dr. Maria
Esteva DesignSafe



Publish a project on
DesignSafe



Share your work
(citations, social
media, present, etc.)



\$750 Incentive



CONVERGE Data Ambassador Checklist

Name: Nathanael Rosenheim

Title and Affiliation: Associate Research Scientist, Texas A&M University

Activity	Date Completed
Read this webpage that details the partnership between the NSF-funded DesignSafe, CONVERGE, and RAPID facilities: https://converge.colorado.edu/data/data-publication .	2020-11-16
Read this webpage on preparing a Data Management Plan: https://converge.colorado.edu/data/data-management . This page includes several tips and insights that will help you to prepare your data for publication.	2020-11-16
Complete the data template in advance of the Publish Your Data! event.	2020-08-24
Prepare your own data, data collection protocols/reports, and/or research instruments and ensure they are ready for curation during or following the event. These materials will help ensure a comprehensive data publication that can be used and analyzed by future researchers or research teams. <ul style="list-style-type: none"> If your data involves human subjects, you must provide documentation of your institution's IRB approval. All human subjects data should be properly de-identified based on ethical best practices, institutional requirements, and any other commitments to participants. 	2020-06-18
Carefully review the DesignSafe data curation guidelines (click on the Field Research tab) (https://www.designsafe-ci.org/rw/user-guides/data-curation-publication/), RAPID website (https://rapid.designsafe-ci.org/), and CONVERGE website (https://converge.colorado.edu/) before the meeting so you can familiarize yourself with the research teams, missions, and resources available from these NSF-supported facilities.	2020-11-16

CONVERGE—NSF Award #1841338 | RAPID—NSF Award #1611820 | DesignSafe—NSF Award #1520817



University of Colorado Boulder

converge.colorado.edu/data/publish-your-data/

CONVERGE Data Publication Template







Data Publication Template

In this document, you will find the steps for setting up an account in DesignSafe and publishing your data and/or research instruments. Please check the boxes as you complete each section and add the requested information to the form below. Return this completed template to haz_research.awards@colorado.edu.

☐ **Step 1:** Prepare your data, instrument, protocol, report, and/or other materials for upload to DesignSafe. Once you have the final, clean version of these materials, then you will proceed with the following steps.

- * If you would like to view examples of materials that have been published previously by social scientists and interdisciplinary teams, please see the CONVERGE Data Ambassadors page at <https://converge.colorado.edu/data/ambassadors/> and the list of the Natural Hazards Center's Weather Ready Research data and instrument publications at <https://hazards.colorado.edu/research/weather-ready/instrument-and-data-publication>.

☐ **Step 2:** Create an account or log into your existing account on DesignSafe at <https://www.designsafe-ci.org/>. Encourage all data co-authors to create an account as well.

☐ **Step 3:** Click on the "Use DesignSafe" tab and the "Data Depot" button in the dropdown menu.



CONVERGE—NSF Award #1841338 | RAPID—NSF Award #1611820 | DesignSafe—NSF Award #1520817

☐ **Step 4:** Select "Add New Project"

☐ **Step 5:** Add your project title.

- * As good practice, your project title should be something that describes your project overall, not simply the same title as the dataset, instrument, or report that you are publishing. These materials should have their own specific names. Your project title should capture the project in a broad sense so that you can add additional research materials as the project expands.

Add Your Project Title Here:

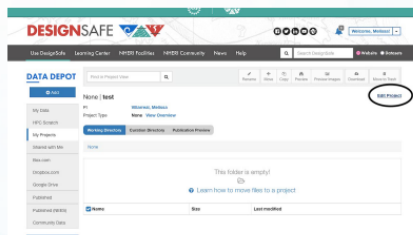
☐ **Step 6:** Identify the Principal Investigator (PI)

- * The PI must have an account in DesignSafe. If you have collaborators who should be listed as co-PIs, they need to have an account with DesignSafe. You can also designate people with a DesignSafe account as "members"—people with this distinction can still work within the project but are not listed as PIs. You can also add unregistered members, who will be listed on the publication citation but are unable to edit the project.

Add PI Information Here:

☐ **Step 7:** Edit the Project

- * Once the project is created, you will begin editing. Go to the top, right-hand side of the screen and click the "Edit Project" link. A new page will appear where you can add more information. At the top, you will see your title of the project, which you can edit again here.



☐ **Step 8:** Select the Project Type

- * Click "Change Project Type." DesignSafe will offer an overview of each Project Type. You can read these by clicking on a Project Type and clicking the Continue button. Read these carefully to select the most appropriate Project Type. Most social science researchers who have collected original data will likely select "Field Research Project." Then you will have the option to enter the "Field Research Type." In most cases for social science research, you will want to select "Social Science," but "Field Experiment," "Longitudinal Study," and other options are available. Note that the rest of this guide assumes the project type of Field Research.
- * If what you are attempting to publish does not involve Field Research, you may also want to select "Other." This category is useful, for example, if you built a novel dataset. See here for one such [example of an "Other" publication type](#) of a dataset generated from publicly available websites.

Add Project Type Here:

☐ **Step 9:** Select the Natural Hazard Types

- * Next you will specify the hazard being researched (e.g., earthquake, flood) from a dropdown menu. If you are working with multiple hazards or in a general hazard context, you can click the "Other" option, then type in "Multiple Hazards."

☐ **Step 10:** Select the Data Type and Facilities

- * Here you will review options from a dropdown menu where you will specify the nature or genre of the content. You will also be able to identify whether a specific facility or network, such as CONVERGE or SSEER, supported the effort. All Natural Hazards Center awardees should select "CONVERGE."

☐ **Step 11:** Add Award Funding Acknowledgement

- * Natural Hazards Center awardees should review their award agreements for the appropriate grant # to insert.

Add Award Number(s) Here:

☐ **Step 12:** Identify Published Referenced Data or Related Work

- * This is an opportunity to link out to relevant websites, publications, or other materials relevant to your data or instrument publication.

CONVERGE Data Ambassadors

CONVERGE Data Ambassadors have completed a National Science Foundation-supported [Publish Your Data](#) project. As Data Ambassadors, they have committed to publishing their own data and instruments on [DesignSafe](#), to learn from [RAPID](#) facilities and their resources, and to sharing their newly attained knowledge with other social and behavioral scientists and colleagues from other allied disciplines in the hazards and disaster field. CONVERGE Data Ambassadors will continue to publish data and instrument sharing across disciplines.

The following page includes a list of instruments, reports, protocols, and other research materials published by CONVERGE Data Ambassadors via the DesignSafe Cyberinfrastructure.



Lauren Clay
Associate Professor, Health Administration and Public Health
D'Youville College

Research Instrument Repository:

Clay, L. (2020). "COVID-19 and Social Determinants of Health Data Collection Instrument Repository." DesignSafe-CL. <https://doi.org/10.17603/ds2-nay0-j578>.

Research Brief:

Clay, L., S. Penta, and A. Silver. (2020). "Risk Perception, Information Seeking, and Protective Actions During the COVID-19 Pandemic (May-July 2020)," in A Multi-Wave Study of Risk Perception, Information Seeking, and Protective Action in Communities Affected by the COVID-19 Pandemic. DesignSafe-CL. <https://doi.org/10.17603/ds2-7019-cs31>.

Data Report:

Clay, L. S. Rogus, and P. Gadhoke. (2020). "Primary and Secondary Health Impacts of the COVID-19 Pandemic (May-July 2020)," in National Food Access and COVID Research Team (NFACT) - New York. DesignSafe-CL. <https://doi.org/10.17603/ds2-7019-cs31>.



Alex Greer
Associate Professor, College of Emergency Preparedness, Homeland Security, and Management
University at Albany

Research Instruments and Data:

Greer, A., T. Wu, H. Murphy, and R. Chang. (2020). "Survey of Students and Households and Interviews with Community Members Following the 2017 Earthquake Adjustment in Oklahoma. DesignSafe-CL. <https://doi.org/10.17603/ds2-dn0z-0111>.



Betty Lai
Buehler Sesquicentennial Assistant Professor, Department of Counseling, Developmental Psychology
Boston College

Interview Protocol:

Hoskova, B. J. Medzhitova, C. Colgan, B. Liang, and B. Lai. (2020). "Time 1 Interview Protocol on Colleges and Universities During the COVID-19 Crisis. DesignSafe-CL. <https://doi.org/10.17603/ds2-erzs-j690>.



Lori Peek
Professor, Department of Sociology and Director, Natural Hazards Center
Principal Investigator, CONVERGE, SSEER, and ISEER
University of Colorado Boulder

Dataset:

Peek, L., E. Hines, M. Mathews, J. Gunderson, and H. Wu. (2020). "Global Academic Hazards and Disaster Resilience Survey. DesignSafe-CL. <https://doi.org/10.17603/ds2-9vz8-7r76>.

Research Instruments:

Peacock, W., N. Rosenheim, D. Gu, S. Van Zandt, L. Peek, M. Dillard, J. Tobin, and S. Hamideh. (2020). "Household Survey Instrument, January 19, 2018: Wave 2," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-pmt9-3s33>.

Sutley, E., M. Dillard, S. Hamideh, W. Peacock, J. Tobin, L. Peek, K. Seong, A. Barbosa, T. Tomiczek, J. van de Lindt, and M. Koliou. (2020). "Household Survey Instrument, January 19, 2018: Wave 2," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-db3h-gy28>.

Scoping Literature Review:

Wu, H., L. Peek, M. Mathews, and N. Mattson. (2020). "A Scoping Literature Review: Cultural Competence for Disaster Response. DesignSafe-CL. <https://doi.org/10.17603/ds2-9vz8-7r76>.

- ✓ 37 Trainees
- ✓ 16 Data Ambassadors
- ✓ \$750 Awards
- ✓ DesignSafe Publications w/ Permanent DOIs:
 - 16 Datasets
 - 19 Research Instruments
 - 13 IRB Protocols
 - 9 Reports and Research Briefs
 - 2 Scoping Literature Reviews
 - 1 Poster
 - 1 Toolkit
- ✓ 823 Downloads and 38,365 Views

converge.colorado.edu/data/data-ambassadors/



Nathanael Rosenheim
Associate Research Scientist and Director of Research, Hazard Reduction and Mitigation
Texas A&M University

Research Instruments:

Peacock, W., N. Rosenheim, D. Gu, S. Van Zandt, L. Peek, M. Dillard, J. Tobin, and S. Hamideh. (2020). "Household Survey Instrument, January 19, 2018: Wave 1," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-pmt9-3s33>.

Rosenheim, N., W. Peacock, M. Perez, and G. Lane. (2020). "Food Retail Survey Instrument," in Food Access and Security in Harris County, Texas after Hurricane Harvey. DesignSafe-CL. <https://doi.org/10.17603/ds2-aqz8-7r76>.

Toolkit:

Rosenheim, N., M. Stanley, C. Goodman, A. Berd, S. Hayes, E. Millard, J. Korukonda, and M. Watson. (2020). "Food Retail Survey Instrument," in Food Access and Security in Harris County, Texas after Hurricane Harvey. DesignSafe-CL. <https://doi.org/10.17603/ds2-3fn5-4b44>.



Gavin Smith
Professor, Department of Landscape Architecture and Environmental Planning
North Carolina State University

Research Instrument

Smith, G., O. Vila, and G. Caverly. (2020). "A National Evaluation of State Roles in Hazard Mitigation: FEMA Hazard Mitigation Assistance Grants." DesignSafe-CL. <https://doi.org/10.17603/ds2-sjlv-eg87>.



Maria Watson
Research Assistant Professor, Department of Landscape Architecture and Environmental Planning
Texas A&M University

Research Instruments

Sutley, E., M. Dillard, S. Hamideh, W. Peacock, J. Tobin, L. Peek, K. Seong, A. Barbosa, T. Tomiczek, J. van de Lindt, and M. Koliou. (2020). "Household Survey Instrument, January 19, 2018: Wave 2," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-db3h-gy28>.

Xiao, Y., M. Watson, J. Helgeson, K. Farokhnia, J. van de Lindt, J. Mitrani-Reiser, E. Sutley, D. Deniz, T. Tomiczek, and M. Koliou. (2020). "Business Survey Instrument, January 19, 2018: Wave 2," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-db3h-gy28>.



Haorui Wu
Assistant Professor, School of Social Work
Dalhousie University

Dataset:

Peek, L., E. Hines, M. Mathews, J. Gunderson, and H. Wu. (2020). "Global Academic Hazards and Disaster Resilience Survey. DesignSafe-CL. <https://doi.org/10.17603/ds2-9vz8-7r76>.

Scoping Literature Review:

Wu, H., L. Peek, M. Mathews, and N. Mattson. (2020). "A Scoping Literature Review: Cultural Competence for Disaster Response. DesignSafe-CL. <https://doi.org/10.17603/ds2-9vz8-7r76>.



H. Tristan Wu
Associate Professor, Department of Emergency Management and Disaster Science
University of North Texas

Research Instrument:

Wu, T., S. Huang, and M. Lindt. (2020). "Business Survey Instrument, January 19, 2018: Wave 2," in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CL. <https://doi.org/10.17603/ds2-db3h-gy28>.



Call 1: Weather Ready Research

Call 2: Instrument and Data Publication

Call 3: Tornado Ready Research

Call 4: Wildfire Ready Research

Home

Special Calls ▼

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The Natural Hazards Center—with support from the National Oceanic and Atmospheric Administration (NOAA) and the National Science Foundation—has issued six special calls for **Weather Ready Research** through our **Weather Ready Research Award Program**.



University of Colorado **Boulder**

Special Call for Weather Ready Research Instrument and Data Publication

- **\$1,250 to \$2,500 Awards**
- Jointly reviewed by Natural Hazards Center and NOAA scientists. Priority was given to data and materials focused on **weather related research**, including floods, hurricanes, extreme temperatures, wildfire, and more.
- **15 Projects** Funded, **13 Datasets**, **21 Research Instruments**, **11 Protocols**, **5 Reports** Published on **DesignSafe**
- **509 Downloads** and **9,061 Views**
- **Project Descriptions and DOIs:**
hazards.colorado.edu/research/weather-ready/instrument-and-data-publication

Weather Ready Research Instrument and Data Publication
June 30, 2021

NATURAL HAZARDS CENTER

Next Steps for the Weather Ready Award Program Recipients and Upcoming Deadlines:

1. Prepare your own data, data collection protocol/report, and/or research instrument and ensure relevant material(s) are ready for curation.
2. Work with Dr. Maria Esteva to publish your project, data, and/or data collection instrument or protocol. You can sign up for an appointment at: <https://signup.com/go/MkHJzWd>.
3. Upon publication of your work, please add the full citation and DOI to the Award Checklist and submit to the Natural Hazards Center no later than: **October 8, 2021** at: haz.research.awards@colorado.edu.



The Weather Ready Research Award program is based on work supported by the National Science Foundation (NSF Award #1635593) through supplemental funding from the National Oceanic and Atmospheric Administration (NOAA) Weather Program Office. Any opinions, findings, conclusions, or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of NSF, NOAA, or the Natural Hazards Center.



Message 3: Engage Members of Your Community—researchers, students, research participants, data librarians, journal editors, funders—**EVERY Step of the Way**



Workshop on Open Data and Reuse in Social Science Weather Research

“Scientific **data** underlying peer-reviewed scholarly publications resulting from federally funded research should be made **freely available and publicly accessible** by default at the time of publication...”



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

August 25, 2022

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: Dr. Alondra Nelson *Alondra Nelson*
Deputy Assistant to the President and Deputy Director for Science and Society
Performing the Duties of Director
Office of Science and Technology Policy (OSTP)

SUBJECT: Ensuring Free, Immediate, and Equitable Access to Federally Funded Research

This memorandum provides policy guidance to federal agencies with research and development expenditures on updating their public access policies. In accordance with this memorandum, OSTP recommends that federal agencies, to the extent consistent with applicable law:

1. Update their public access policies as soon as possible, and no later than December 31st, 2025, to make publications and their supporting data resulting from federally funded research publicly accessible without an embargo on their free and public release;
2. Establish transparent procedures that ensure scientific and research integrity is maintained in public access policies; and,
3. Coordinate with OSTP to ensure equitable delivery of federally funded research results and data.

1. Background and Policy Principles


Since February 2013, federal public access policy has been guided by the *Memorandum on Increasing Access to the Results of Federally Funded Research* (2013 Memorandum).¹ Issued by the White House Office of Science and Technology Policy (OSTP), the 2013 Memorandum directed all federal departments and agencies (agencies) with more than \$100 million in annual research and development expenditures to develop a plan to support increased public access to the results of federally funded research, with specific focus on access to scholarly publications and digital data resulting from such research.

Nearly ten years later, every federal agency subject to the 2013 Memorandum has developed and implemented a public access policy in accordance with its guidance.² As a result, the American public has experienced great benefits: more than 8 million scholarly publications have become accessible to the public. Over 3 million people read these articles for free every day. The 2013 federal public access policy set the stage for a paradigm shift away from research silos and

¹ See the 2013 Memorandum: https://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf
² See the 2021 OSTP Public Access Congressional Report: <https://www.whitehouse.gov/wp-content/uploads/2022/02/2021-Public-Access-Congressional-Report-OSTP.pdf>



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Workshop on Open Data and Reuse in Social Science Weather Research

In April 2022, the National Oceanic and Atmospheric Administration (NOAA) Weather Program Office and the Natural Hazards Center partnered to convene a Workshop on Open Data and Reuse in Social Science Weather Research.

The Workshop sought to gather insights and recommendations on ethical publication and reuse of social, behavioral, and economic science data in the context of weather-related research. The Workshop was organized in response to a recent memorandum that defined guidance for federal departments and agencies to update their public access policies as soon as possible. These updates should make publications and research funded by taxpayers publicly accessible, without delay or cost. According to the new guidance, all federal agencies will fully implement updated policies to user that December 31, 2025.

In response to the guidance, the Workshop addressed advancements in the publication of social science research instruments and data, including challenges with ethical management and sharing quantitative and qualitative primary and secondary social science data, and opportunities to support the necessary infrastructure and culture for data publication and reuse in the social sciences. The primary outcome of this Workshop is a forthcoming report that summarizes informed insights and recommendations for consideration by NOAA, other federal agencies, academic researchers, and data archivists regarding how to make social, behavioral, and economic science data more transparent and accessible in accordance with new federal requirements.

The Workshop brought together program administrators and researchers from NOAA and the Natural Hazards Center, program directors from the National Science Foundation (NSF), representatives from data repositories and data governance experts, and social scientists and interdisciplinary researchers.

Workshop Description: The Workshop on Open Data and Reuse in Social Science Weather Research took place on April 10-11, 2022 at the University of Colorado Boulder. This **Workshop Description** provides an overview of Workshop logistics, background, outcomes, and materials for reuse.

Participants List: A total of 28 participants attended in-person and 12 joined the meeting virtually. This **Participants List** includes the names, titles, affiliations, and bio for all participants.

Agenda: The two-day Workshop featured 7 highly interactive sessions that were designed to encourage participants to share their insight, concerns, and suggestions. Sessions included federal policy updates for data sharing, publication, and reuse, advancements in social science data infrastructure, challenges to publishing and reusing social science instruments and data, brainstorming on overcoming the barriers, and more. The Workshop Agenda summarizes the subjects for each session.

Workshop Slides: The Workshop featured a mix of formal presentations, lightning talks, facilitated discussions, and breakout groups. PDFs of the presentation slides are available below:

Session 1: Federal Policy Updates for Data Sharing, Publication, and Reuse

- [Tony Laurel Slides](#)
- [Gina Scoco Slides](#)

Session 2: Advancements in Social Science Instruments and Data Publication Infrastructure

- [Dana Kvitlovsk Slides](#)
- [Amy Piazza Slides](#)
- [Maria Savaris Slides](#)
- [Katie Niles, Julian Gaudier, and Giovanni Dondini Slides](#)


Session 3: Advancements in Training and Mentoring for Data Publication

- [Lori Peak and Jennifer Tobin Slides](#)
- [Kim Forcum Slides](#)
- [Mallissa Carroll Slides](#)
- [Marc Mayersink Slides](#)

Session 4: The Elephant in the Room – Challenges to Publishing and Reusing Social Science Instruments and Data

- [Lightning Presentation Slides](#)

Participants Guidelines: Participants followed the following set of **Participants Guidelines** to maintain a critical, respectful, and interactive environment for idea sharing. Some of the guidelines included being present, making an effort to get to know other participants, using breakout groups effectively, avoiding using acronyms, among others.



Workshop Planning Committee: The following individuals from NOAA's Weather Program Office (Gina Scoco, Alison Agnew, Jonathan Niles, and Cassandra Chivers-Williams) and from the Natural Hazards Center (Lori Peak, Jennifer Tobin, and Mary Angelica Fairman) envisioned and organized this meeting.

Questions should be directed Lori.Peak@colorado.edu or Gina.Scoco@noaa.gov.

2023 |






Final Report

Workshop on Open Data and Reuse in Social Science Weather Research

9 key observations;
21 recommended actions





University of Colorado **Boulder**

THANK YOU



Questions? Contact:
Lori Peek, Ph.D.
Lori.Peek@Colorado.edu

hazards.colorado.edu
converge.colorado.edu

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