

# Building Systems, Building Community: Incentivizing and Catalyzing Instrument and Data Publication and Reuse

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## Embracing data preservation, sharing, and re-use in traumatic stress research

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### ABSTRACT

This editorial argues that it is time for the traumatic stress field to join the growing international movement towards Findable, Accessible, Interoperable, and Re-usable (FAIR) research data, and that we are well-positioned to do so. The field has a huge, largely untapped resource in the enormous number of rich potentially re-usable datasets that are not currently shared or preserved. We have several promising shared data resources created via international collaborative efforts by traumatic stress researchers, but we do not yet have common standards for data description, sharing, or preservation. And, despite the promise of novel findings from data sharing and re-use, there are a number of barriers to researchers' adoption of FAIR data practices. We present a vision for the future of FAIR traumatic stress data, and a call to action for the traumatic stress research community and individual researchers and research teams to help achieve this vision.

### Abrazando la preservación, el intercambio y la reutilización de datos en la investigación del estrés traumático

Esta editorial argumenta que es hora de que el campo del estrés traumático se una al creciente movimiento internacional hacia datos de investigación Hallables, Accesibles, Interoperables y Reutilizables (FAIR en su sigla en inglés), y que estamos en una buena posición para hacerlo. El campo tiene un recurso enorme, en gran parte sin explotar, en la enorme y rica cantidad de conjuntos de datos potencialmente reutilizables que actualmente no son conservados o compartidos. Tenemos varios recursos de datos compartidos prometedores creados a través de esfuerzos de colaboración internacional por investigadores de estrés traumático, pero aún no tenemos estándares comunes para la descripción, el intercambio o la preservación de datos. Y, a pesar de la promesa de nuevos hallazgos del uso compartido y la reutilización de datos, existen numerosas barreras para la adopción de prácticas de datos FAIR por parte de los investigadores. Presentamos una visión para el futuro de los datos de estrés traumático FAIR, y un llamado a la acción para la comunidad de investigación de estrés traumático y los investigadores individuales y equipos de investigación para ayudar a lograr esta visión.

### 在创伤应激研究中的数据保存, 共享和重复使用

本社论提出, 现在是在创伤应激领域加入日益发展的可寻找, 可访问, 可共同操作和可重复使用 (FAIR) 研究数据的国际运动的时候。并且我们有条件这样做。在目前尚未共享或保留的大量丰富的潜在可重复使用的数据集中, 具有大量尚未开发的资源。我们有一些可能的共享数据资源。这些数据是由创伤应激研究还通过国际合作创建的。但是我们还没有有关数据描述, 共享或保存的通用标准。而且, 尽管有望从数据共享和重复使用中获新颖的发现, 但研究人员采用FAIR数据实践仍存在许多障碍。我们提出了有关FAIR创伤应激数据未来的愿景, 并呼吁创伤应激研究社区以及各个研究人员和研究团队采取行动以帮助实现这一愿景。

With a growing international movement towards more open science (Olf et al., 2019) and making data findable and re-usable, it is time for the traumatic stress field to fully recognize the value of preservation, sharing, and re-use of data. This recognition will have implications for our current and future research practices, and will shape the choices we make now regarding the legacy of past research. Our field is sitting on a huge, largely untapped resource – the rich and potentially re-usable datasets that currently sit in the

(paper and electronic) file drawers of investigators and research teams. Much of the data that we are not now preserving or sharing falls in the 'long tail' of research data (Ferguson, Nielson, Cragin, Bandrowski, & Martone, 2014). In contrast to the huge datasets of 'big data', the long tail is defined as the very large proportion of existing research data that come from 'numerous small independent research efforts yielding a rich variety of specialty research data sets' (Ferguson et al., 2014, p. 1443). As a field we have rarely created

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### Review

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## Opportunities for improving data sharing and FAIR data practices to advance global mental health

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Lonneke I. M. Lenferink<sup>8,9,10</sup> and Nancy Kassam-Adams<sup>1,11,12</sup>

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### Abstract

It is crucial to optimize global mental health research to address the high burden of mental health challenges and mental illness for individuals and societies. Data sharing and reuse have demonstrated value for advancing science and accelerating knowledge development. The FAIR (Findable, Accessible, Interoperable, and Reusable) Guiding Principles for scientific data provide a framework to improve the transparency, efficiency, and impact of research. In this review, we describe ethical and equity considerations in data sharing and reuse, delineate the FAIR principles as they apply to mental health research, and consider the current state of FAIR data practices in global mental health research, identifying challenges and opportunities. We describe noteworthy examples of collaborative efforts, often across disciplinary and national boundaries, to improve Findability and Accessibility of global mental health data, as well as efforts to create integrated data resources and tools that improve Interoperability and Reusability. Based on this review, we suggest a vision for the future of FAIR global mental health research and suggest practical steps for researchers with regard to study planning, data preservation and indexing, machine-actionable metadata, data reuse to advance science and improve equity, metrics and recognition.

### Impact statement

Globally, there is a high burden of mental ill-health, with disproportionate burden in marginalized communities. There is an urgent need to better understand risk and protective factors for mental health and to develop effective strategies to address mental illness, in order to better support individuals, families, and communities. Sharing and reuse of global mental health research data can accelerate collaboration and knowledge development, helping to inform policy decisions, support evidence-based intervention strategies, and allocate resources in an effective and equitable manner to improve mental health outcomes. The value of data sharing and reuse for global mental health is demonstrated by examples of past projects in which data from multiple studies and countries were shared and combined to generate new insights. The FAIR (Findable, Accessible, Interoperable, and Reusable) Guiding Principles for scientific data provide a framework to improve the transparency, efficiency, and impact of research by making data more Findable, Accessible, Interoperable, and Reusable. This review delineates the FAIR principles as they apply to global mental health research, and describes the current state of FAIR data practices in the field, including ethical and social equity considerations in sharing and reusing mental health research data. We describe a number of notable collaborative efforts, often crossing disciplinary and national boundaries, that show the feasibility and promise of improving the Findability and Accessibility of global mental health data, and of building resources and tools that enhance the Interoperability and Reusability of these data. Based on this review we provide a vision for the future of FAIR global mental health research, and suggest practical steps that researchers and research communities can take to improve the FAIRness of their data and enhance the impact of their research.

### Introduction

Mental health challenges and mental illness are associated with significant health burden for individuals and societies (Rehm and Shield, 2019; Yang et al., 2021). For those in low- and





# 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**





MOVIECLIPS.COM

# 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 Training and Financial Incentives for Instrument and Data Publication and Reuse



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INSTITUTE OF BEHAVIORAL SCIENCE

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## 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.

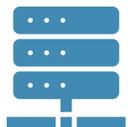
[Overview](#)[Event Videos and Documents](#)

## 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: <a href="https://converge.colorado.edu/data/data-publication">https://converge.colorado.edu/data/data-publication</a> .	2020-11-16
Read this webpage on preparing a Data Management Plan: <a href="https://converge.colorado.edu/data/data-management">https://converge.colorado.edu/data/data-management</a> . 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"> <li>• If your data involves human subjects, you must provide documentation of your institution's IRB approval.</li> <li>• All human subjects data should be properly de-identified based on ethical best practices, institutional requirements, and any other commitments to participants.</li> </ul>	2020-06-18
Carefully review the DesignSafe data curation guidelines (click on the Field Research tab) ( <a href="https://www.designsafe-ci.org/rw/user-guides/data-curation-publication/">https://www.designsafe-ci.org/rw/user-guides/data-curation-publication/</a> ), RAPID website ( <a href="https://rapid.designsafe-ci.org/">https://rapid.designsafe-ci.org/</a> ), and CONVERGE website ( <a href="https://converge.colorado.edu/">https://converge.colorado.edu/</a> ) 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/](https://converge.colorado.edu/data/publish-your-data/)

## CONVERGE Data Ambassadors

CONVERGE Data Ambassadors have completed a National Science Foundation-supported [Publish Your Data](#) project. As Ambassadors, they have committed to publishing their own data and instruments on [DesignSafe](#), to learn about [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 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-nay0-1518>.

#### Research Brief:

Clay, L., S. Penta, and A. Silver. (2020). "Risk Perception, Information Seeking, and Protective Actions During (May-July 2020)," in A Multi-Wave Study of Risk Perception, Information Seeking, and Protective Action in Communities Affected by COVID-19. 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 Disaster 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 Households in Oklahoma." DesignSafe-Cl. <https://doi.org/10.17603/ds2-dn0z-0111>.



**Betty Lai**  
Buehler Sesquicentennial Assistant Professor, Department of Counseling, Developmental Psychology, and Applied Behavior Analysis  
Boston College

#### Interview Protocol:

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



**Lori Peek**  
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#### 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/e9wq-qz57>.

#### 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-pmt9-1s33>.

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 Preparedness." DesignSafe-Cl. <https://doi.org/10.17603/ds2-9vz8-7r76>.

- ✓ 33 Trainees
- ✓ 12 Ambassadors
- ✓ \$750 Awards
- ✓ DesignSafe Publications w/ Permanent DOIs:
  - ✓ IRB Protocols
  - ✓ Scoping Literature Reviews
  - ✓ Datasets
  - ✓ Qualitative (focus group, interview guides) and Quantitative (survey) Instruments
  - ✓ Research Briefs and Reports

[converge.colorado.edu/data/data-ambassadors/](https://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, November 26, 2016: 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-pmt9-1s33>.

Rosenheim, N., W. Peacock, M. Perez, and G. Lane. (2020). "Food Retail Survey Instrument," in Food Retail Survey Instrument, Harris County, Texas after Hurricane Harvey. DesignSafe-Cl. <https://doi.org/10.17603/ds2-aqz8-1s33>.

#### Toolkit:

Rosenheim, N., M. Stanley, C. Goodman, A. Berd, S. Hayes, E. Millard, J. Korukonda, and M. Watson. (2020). "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/e9wq-qz57>.

#### Scoping Literature Review:

Wu, H., L. Peek, M. Mathews, and N. Mattson. (2020). "A Scoping Literature Review: Cultural Competence for Disaster Preparedness." 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**

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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 four special calls for [Weather Ready Research](#) through our **Weather Ready Research Award Program**.

- \$2,500 to \$7,500 each
- 27 Projects
- 105 Researchers
- \$106,536 Awarded



# Special Call for Weather Ready Research Instrument and Data Publication

- **\$1,250 to \$2,500 Awards**
- **15 Projects Funded, 27 Social Science and Multidisciplinary Datasets, Instruments, Protocols** Published on [DesignSafe](#)
- **Project Descriptions and DOI's** can be found here: [hazards.colorado.edu/research/weather-ready/instrument-and-data-publication](https://hazards.colorado.edu/research/weather-ready/instrument-and-data-publication)
- Priority was given to data and materials focused on **weather related research**, including floods, hurricanes, extreme temperatures, wildfire, and more.

**Weather Ready Research Instrument and Data Publication**  
**June 30, 2021**



## 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](mailto: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.*



# Upcoming: Special Call for Weather Ready Research Instrument and Data Reuse

- Fall 2023
- **\$1,250 to \$7,500 Awards**
- **Stage 1:** Will fund researchers to **receive training** in ethical best practices for instrument and data reuse.
- **Stage 2:** Will fund researchers to **reuse** a published instrument (in a new field setting) or data
- Administered through the Natural Hazards Center and made possible with the support of NOAA and NSF.





**Message 3: Engage Members of Your Community—Researchers, Students, Research Participants, Funders, Data Librarians, Journal Editors—EVERY Step of the Way**



# Workshop on Open Data and Reuse in Social Science Weather Research

“Scientific **data [and metadata]** 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 31<sup>st</sup>, 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).<sup>1</sup> 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.<sup>2</sup> 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

<sup>1</sup> See the 2013 Memorandum: [https://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp\\_public\\_access\\_memo\\_2013.pdf](https://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf)  
<sup>2</sup> See the 2021 OSTP Public Access Congressional Report: <https://www.whitehouse.gov/wp-content/uploads/2022/02/2021-Public-Access-Congressional-Report-OSTP.pdf>

1





University of Colorado **Boulder**

# THANK YOU



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[hazards.colorado.edu](http://hazards.colorado.edu)  
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