



Weather Ready Research Instrument and Data Publication Training Session

June 30, 2021

CONVERGE NSF Award #1841338 | NHC Clearinghouse NSF Award #1635593 | DesignSafe NSF Award #2022469





11:00-11:20 a.m. MDT

We are
so excited
you are here!

A Two-Year Journey....



The DesignSafe team interviews ~80 social science, urban planning, public health and medicine, and engineering researchers at the Natural Hazards Workshop. **July 2019**



L-R: Maria, Tim, and Craig put the social science and interdisciplinary “data modelers” to work! **October 2018**

“The Call” -
June 2018



CONVERGE and DesignSafe partnership formally established in **August 2018**

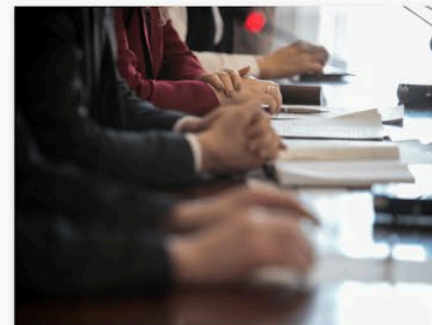


DesignSafe releases the field research data model for social science and interdisciplinary teams in **May 2020**

[Data](#) > Publish Your Data

CONVERGE Publish Your Data! Events

CONVERGE has partnered with the Natural Hazards Engineering Research Infrastructure DesignSafe and RAPID facilities to host a series of Publish Your Data! events for social and behavioral scientists. These events are organized to inform members of the natural hazards research community about possibilities for publishing data, instruments, protocols, and other materials.

[OVERVIEW](#)[BACKGROUND](#)[EVENT VIDEOS AND DOCUMENTS](#)[ORGANIZING COMMITTEE](#)

CONVERGE Data Ambassadors

CONVERGE Data Ambassadors have completed a National Science Foundation-supported [Publish Your Data!](#) training session. As Data Ambassadors, they have committed to publishing their own data and instruments on [DesignSafe](#) to learning about the [CONVERGE](#) and [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 help usher in a culture shift toward data publication and data and instrument sharing across disciplines.

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



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

Research Instrument Depository:

Clay, L. (2020). "COVID-19 and Social Determinants of Health Data Collection Instrument Repository." DesignSafe-CI. <https://doi.org/10.17603/ds2-nny0-1518>

Research Brief:

Clay, L., S. Penta, and A. Silver. (2020). "Risk Perception, Information Seeking, and Protective Actions During COVID-19 Among New Yorkers (May-July 2020)." In A Multi-Wave Study of Risk Perception, Information Seeking, and Protective Action in COVID-19. DesignSafe-CI. <https://doi.org/10.17603/ds2-7019-cs33>

Data Report:

Clay, L., S. Rogus, and P. Cadhoke. (2020). "Primary and Secondary Health Impacts of the COVID-19 Pandemic on New Yorkers (May-June 2020)." In National Food Access and COVID Research Team (NFACT) - New York. DesignSafe-CI. <https://doi.org/10.17603/ds2-se2x-se40>



Alex Greer
Associate Professor, College of Emergency Preparedness, Homeland Security, and Cybersecurity
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 Key Stakeholders in Oklahoma," in Earthquake Adjustment in Oklahoma. DesignSafe-CI. <https://doi.org/10.17603/ds2-dn0x-0111>



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

Interview Protocol:

Hoskova, B., J. Medzhitova, C. Colgan, B. Liang, and B. Lai. (2020). "Time 1 Interview Protocol on Colleges and COVID-19." In Colleges and the COVID-19 Crisis. DesignSafe-CI. <https://doi.org/10.17603/ds2-erzx-4690>



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 Research Centers Data." DesignSafe-CI. <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, November 26, 2016: Wave 1." In A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI. <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 D. Gu. (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-CI. <https://doi.org/10.17603/ds2-db3h-gv28>

Scoping Literature Review:

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



Nathanael Rosenheim
Associate Research Scientist and Director of Research, Hazard Reduction & Recovery Center
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-CI. <https://doi.org/10.17603/ds2-pmt9-1s33>

Rosenheim, N., W. Peacock, M. Perez, and G. Lane. (2020). "Food Retail Survey Instrument," in Food Access Impact Survey for Southeast Texas and Harris County, Texas after Hurricane Harvey. DesignSafe-CI. <https://doi.org/10.17603/ds2-ss2x-dy32>

Toolkit:

Rosenheim, N., M. Stanley, C. Goodman, A. Berd, S. Hayes, E. Millard, J. Korukonda, and M. Watson. (2020). "Systematic Literature Review Toolkit." DesignSafe-CI. <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., Q. Vila, and G. Caverly. (2020). "A National Evaluation of State Roles in Hazard Mitigation: Building Local Capacity to Implement FEMA Hazard Mitigation Assistance Grants." DesignSafe-CI. <https://doi.org/10.17603/ds2-9lbr-eg87>



Maria Watson
Research Assistant Professor, Department of Landscape Architecture and Urban 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 D. Gu. (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-CI. <https://doi.org/10.17603/ds2-db3h-gv28>

Xiao, Y., M. Watson, J. Helgeson, K. Farokhnia, J. van de Lindt, J. Mitrani-Reiser, E. Sutley, D. Deniz, T. Tomiczek, A. Barbosa, J. Fung, O. Nofal, 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-CI. <https://doi.org/10.17603/ds2-fm9x-fm93>



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 Research Centers Data." DesignSafe-CI. <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 Hazards and Disaster Research." DesignSafe-CI. <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. Lindell. (2020). "Household Mail Survey," in 2011 New Zealand and Japan Earthquake Household Response Survey. DesignSafe-CI. <https://doi.org/10.17603/ds2-st68-6b42>

Objectives for Today

- Learn about DesignSafe and CONVERGE data capabilities for the social sciences and interdisciplinary research
- Understand and discuss *why* publishing and sharing data and instruments is important
- Hear from NOAA social science leadership about the commitment to instrument and data publication, and the role these activities play in building a Weather Ready Research Community
- Meet the other Weather Ready Research Award recipients
- Learn how to ethically publish your own data and instruments and move forward with receiving a permanent DOI for your data and/or instruments
- Fulfill award commitments and become a CONVERGE Data Ambassador!





https://www.youtube.com/watch?v=HK8NNi3XS6Q&feature=emb_logo



“For the past three decades, leaders of the scientific community have called for sharing access to scientific data... The main rationales for data sharing, [include]:

- *To reproduce or to verify research*
- *To make the results of publicly funded research available to the public*
- *To enable others to ask new questions of extant data*
- *To advance the state of research and innovation*

Increasingly, funding agencies around the world are requiring investigators to share data created with public support.”

-Source: [Public Access to NSF-Funded Research Data for the Social, Behavioral, and Economic Sciences, 2016](#)



Welcome from
Dr. Gina Eosco,
National
Oceanic and
Atmospheric
Administration



Welcome from
**Dr. Ellen
Rathje,**
PI, DesignSafe,
University of
Texas at Austin

Self and Team Introductions

Data Overview / Data Publication Goals + Questions – 2 minutes

- Eric Best
- Lauren Clay
- Emma French, Kelly Turner, and David Hondula
- Sergio García Mejía, Michelle Bensi , Nilanjana Ghosh
- Jennifer Henderson, Erik Nielsen, and Jennifer Spinney
- David Hondula, Mary Wright, and Kelly Turner
- Lisa Kurtz and David Hondula
- Manyu Li
- Ram Krishna Mazumder, Elaina Sutley, and Meredith Dumler – 2 projects
- Tara Pozzi and Vicken Hillis
- Olivia Vila and Gavin Smith
- Lance Watkins and Mary Wright
- Xilei Zhao, Yiming Xu, Ruggiero Lovreglio, Erica Kuligowski, and Daniel Nilsson
- Lisa Zottarelli

Data Templates:

<https://drive.google.com/drive/folders/1vxXrxFzvDTgX1eJeqIB0ZC9M2R5AkBn?usp=sharing>



Overview

11:50 a.m.-12:15 p.m. MDT
Cockerill and Esteva

Data Model Demonstration and Hands-On Training

12:15-1:00 p.m. MDT
Jansen



Next Steps to Data Publication

<https://signup.com/go/MkHJzWd>

1:00-1:20 p.m. MDT
Esteva

Open Data, DOI's and Data Discoverability



Weather Ready Instrument and Data Publication Checklist

Name: _____

Title and Affiliation: _____

**This form is due by no later than October 8, 2021 to haz.research.awards@colorado.edu. Please only submit one form per team and project award.*

| Activity | Date Completed |
|--|----------------|
| Watch the 30-minute CONVERGE Publish Your Data! Webinar for background, context, and to learn from current Data Ambassadors about how they have used DesignSafe to advance their own research: https://converge.colorado.edu/communications/webinar-series/publish-your-data . | |
| Read this webpage that details the partnership between the NSF-funded DesignSafe, CONVERGE, and RAPID facilities: https://converge.colorado.edu/data/data-publication . | |
| Read this webpage on preparing a Data Management Plan carefully: https://converge.colorado.edu/data/data-management . This page includes several tips and insights that will help you to prepare your data for publication. | |
| If you have not done so already, create a DesignSafe account and ensure that all of your team members have registered for accounts as well: https://www.designsafe-ci.org/account/register/ . Upon registration, please complete your full account profile to ensure proper reporting to NSF (and representation of the social and behavioral science community as users of DesignSafe). | |
| Complete the data template in advance of the Publish Your Data! training session. | |
| Prepare your own data, data collection protocol/report, and/or research instrument and ensure relevant material(s) are ready for curation during or following the Publish Your Data! training session. 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">Establish the sensitivity of your dataset (see the attached data template for more information). | |



Weather Ready Instrument and Data Publication Checklist

1:30-1:40 p.m. MDT
Peek and All Participants

Help advance social science and interdisciplinary research by helping others to...

Find and Curate
Their Data

Share Their
Legacy and New
Data

Coordinate w/
Other
Researchers
(private and
public data
sharing options)

Encourage
Scientific
Replication (not
duplication)

Get Credit w/
DOI's while
Advancing
Science and
Practice



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

1:40-1:45 p.m. MDT
Tobin and All Participants

Questions for
DesignSafe, NOAA, or
the Natural Hazards
Center and CONVERGE
Teams?



THANK
YOU!