



CONVERGE: *NHERI's Social Science Facility*



Rachel Adams, PhD, MPH
Research Associate
Natural Hazards Center and CONVERGE
University of Colorado Boulder



NSF Award #1635593 and #1841338



Natural Hazards Center



CONVERGE



NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE (NHERI)



For more information, visit the
NHERI DesignSafe website: DesignSafe-ci.org



University of Colorado **Boulder**

CONVERGE: NHERI's Social
Science Facility

CONVERGE

- CONVERGE is a National Science Foundation-funded shared-use facility dedicated to advancing the **ethical conduct** and **scientific rigor** of convergent hazards and disaster research



converge.colorado.edu

CONVERGE offers free **resources** to help train a diverse **next-generation** of the **hazards and disaster workforce**.



University of Colorado **Boulder**

CONVERGE: NHERI's Social
Science Facility

CONVERGE Training Module Series



University of Colorado **Boulder**

CONVERGE: NHERI's Social
Science Facility

Training Module Development Team



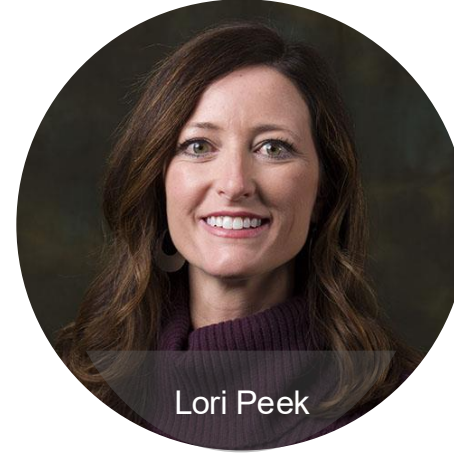
Rachel Adams

LEAD DEVELOPER



Candace Evans

CO-LEAD DEVELOPER

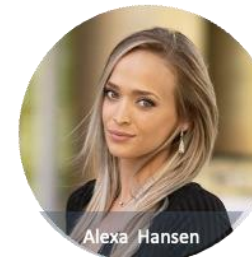
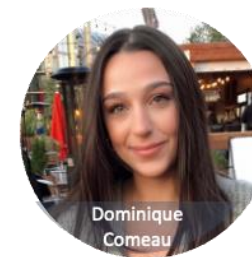
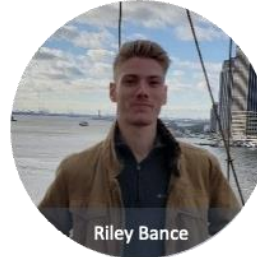


Lori Peek

PRINCIPAL
INVESTIGATOR

Our Training Module development team works with graduate students, faculty, and others who are working on cutting edge topics relevant to the series' core themes.

Training Module Collaborators



CONVERGE Training Modules

Free, interactive, online trainings designed for students, early career professionals, and others who are new to hazards and disaster research and practice. They incorporate an all-hazards approach grounded in cutting edge research from the social sciences, public health, engineering, and other disciplines. Each module features:

- Learning objectives
- Lesson plans
- Case studies
- A list of additional resources
- A final quiz worth **one contact hour** of general management training through the International Association of Emergency Managers (IAEM) certification program.



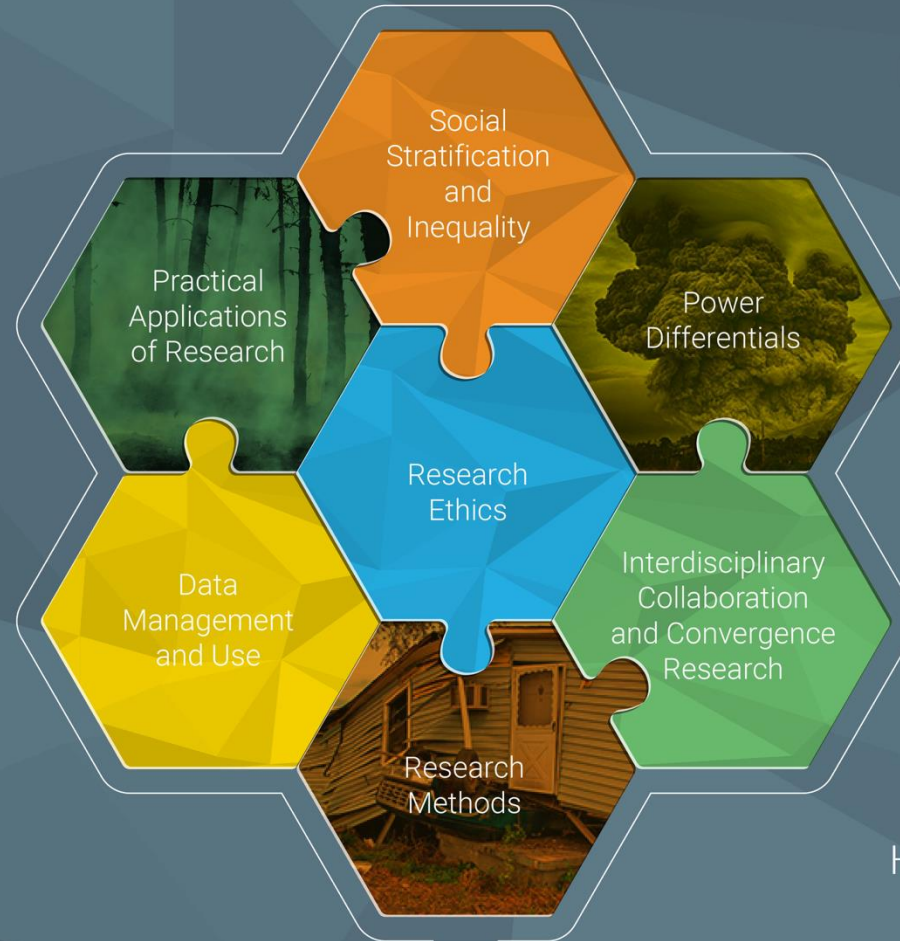
CONVERGE

Training Modules

Foundational Training Module Topics

- Institutional Review Board (IRB) Procedures
- Conducting Emotionally Challenging Research
- Cultural Competence
- Collecting and Sharing Perishable Data
- Social Vulnerability and Disasters
- Disaster Mental Health

Shared Themes



Advanced Training Module Topics

- Broader Ethical Considerations
- Indigenous Sovereignty
- Positionality
- Reciprocity
- Understanding and Ending Gender-Based Violence in Fieldwork
- Public Health Implications of Hazards and Disaster Research

Annotated Bibliographies

We offer annotated bibliographies that summarize the various readings that informed the development of the CONVERGE Training Modules. If you have a reading to contribute as a shared resource for our broader community, please contact us at converge@colorado.edu.

-  [CONVERGE Cultural Competence Annotated Bibliography](#)
-  [CONVERGE Disaster Mental Health Annotated Bibliography](#)
-  [CONVERGE Emotionally Challenging Research Annotated Bibliography](#)
-  [CONVERGE Ethics and Disaster Research Annotated Bibliography](#)
-  [CONVERGE Gender-Based Violence in Fieldwork Annotated Bibliography](#)
-  [CONVERGE Indigenous Sovereignty in Disasters Annotated Bibliography](#)
-  [CONVERGE Institutional Review Board Annotated Bibliography](#)
-  [CONVERGE Perishable Data Annotated Bibliography](#)
-  [CONVERGE Positionality in Hazards and Disaster Research and Practice Annotated Bibliography](#)
-  [CONVERGE Public Health and Disaster Research Annotated Bibliography](#)
-  [CONVERGE Reciprocity in Research Annotated Bibliography](#)
-  [CONVERGE Social Vulnerability and Disasters Annotated Bibliography](#)

converge.colorado.edu/resources/training-modules/annotated-bibliographies/



CONVERGE TRAINING MODULES
ANNOTATED BIBLIOGRAPHY

CONVERGE Ethics and Disaster Research Annotated Bibliography

This annotated bibliography includes resources focused on the ethical conduct of hazards and disaster research. This bibliography is meant to support those interested in learning more about the ethical conduct of research and to complement the [CONVERGE Broader Ethical Considerations for Hazards and Disaster Researchers Training Module](#). These references were compiled through searching Web of Science, PubMed, and Google Scholar databases. If you identify missing references, please send them to converge@colorado.edu, and we will add them to the list.

Citation

Agee, J. (2009). Developing qualitative research questions: A reflective process. *International Journal of Qualitative Studies in Education*, 22(4), 431-447. <https://doi.org/10.1080/09518390902736512>

Abstract

The reflective and interrogative processes required for developing effective qualitative research questions can give shape and direction to a study in ways that are often underestimated. Good research questions do not necessarily produce good research, but poorly conceived or constructed questions will likely create problems that affect all subsequent stages of a study. In qualitative studies, the ongoing process of questioning is an integral part of understanding the unfolding lives and perspectives of others. This article addresses both the development of initial research questions and how the processes of generating and refining questions are critical to the shaping of a qualitative study.

Citation

Baker, L. R., & Cormier, L. A. (2014). *Disasters and vulnerable populations: Evidence-based practice for the helping professions*. Springer Publishing Company.

Abstract

Vulnerable populations such as children, older adults, and people with disabilities are disproportionately affected by large-scale disasters. This hands-on resource for students and professionals in social work, counseling, nursing, mental health, and other helping professions encompasses the best and most current evidence-based interventions for effectively responding to the needs of vulnerable populations following disasters. Using an all-hazards perspective, the book provides dedicated sections containing population-

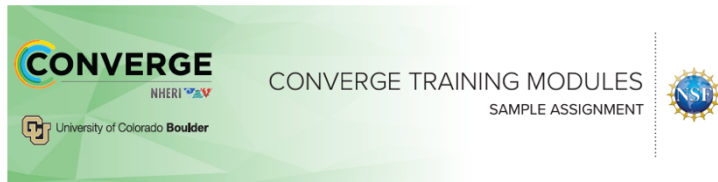
1

CONVERGE TRAINING MODULES | ANNOTATED BIBLIOGRAPHY SERIES

CONVERGE | Natural Hazards Center | CU Boulder
483 UCB | Boulder, CO 80309-0483 | (303) 735-5844
converge@colorado.edu | hazards.colorado.edu



Assignment Bank



Course: EHC 344: Emergency Preparedness
Description: 3 credits, undergraduate level course on emergency preparedness
Instructor: Adam C. Sutkus, Adjunct Lecturer, State University of New York at Albany, College of Emergency Preparedness, Homeland Security, and Cybersecurity
Email: asutkus@albany.edu
Session: Spring 2024
Due: April 7, 2024

SOCIAL VULNERABILITY AND EMERGENCY PREPAREDNESS TRAINING MODULE ASSIGNMENT

Overview:

The Natural Hazards Center at the University of Colorado Boulder offers several free online trainings through their National Science Foundation-funded [CONVERGE](#) facility. For this assignment, you will complete the [CONVERGE Social Vulnerability and Disasters Training Module](#). While this training is largely focused on this topic as it relates to conducting research, the issues and strategies discussed in this module are relevant to the practice of emergency management as well. You will, undoubtedly, notice many connections to the course material.

The Social Vulnerability module should take you about 45 to 60 minutes to complete. Once you have passed the quiz at the end of the module, you will be able to download a PDF completion certificate. *You must upload this PDF file into the Brightspace learning management system in order to complete the assignment and receive credit.*

Instructions:

1. Go to the [CONVERGE website](#).
2. Click on 'Resources' and select 'Training Modules'.
3. If you have not already done so for this class, you will need to first sign up and create a free account to access the modules. If you have previously created an account, just click 'Log in'.
 - To create an account: Click 'Register Here'. Follow the instructions on the screen to register, and then log in using your credentials.
4. Select 'Social Vulnerability' training module.
5. At the close of the module, you will have the opportunity to take a 10-question quiz. If you get 8 out of 10 questions correct, you will receive a certificate of completion for the CONVERGE Social Vulnerability and Disasters Training Module. *Upload your certificate of completion to the Brightspace learning management system for this course.*

Evaluation Criteria: Students who complete the training module and upload their certificate into the learning management system by **April 7, 2024** will receive **10/10 points** for this assignment.

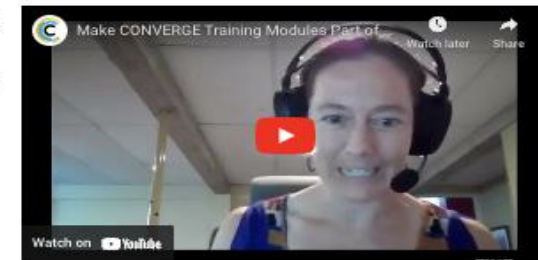
The Assignment Bank contains assignments from a range of courses that have integrated the CONVERGE Training Modules into the learning curriculum. We currently offer assignments for:

- Undergraduate courses
- Graduate courses
- Research labs

converge.colorado.edu/resources/training-modules/assignment-bank/

CONVERGE Training Modules Assignment Bank

This page contains sample assignments from a range of courses that have integrated the CONVERGE Training Modules into the learning curriculum. Please click on the title below for the full text of the assignments. If you have an assignment to contribute as a shared resource for our broader community, please contact us at converge@colorado.edu.



Undergraduate Course Assignments

- ▢ [Create a Training Module Assignment](#)
- ▢ [Cultural Competence Training Module Assignment](#)
- ▢ [Disaster Health Research Assignment](#)
- ▢ [Pandemic Diaries Project](#)
- ▢ [Reciprocity Training Module Assignment: Exploring Connections Between Yourself and the Living World](#)
- ▢ [Research Methods Training Module Assignment: Exploring the IRB And Research Ethics](#)
- ▢ [Social Dimensions of Natural Hazards Training Module Assignment](#)
- ▢ [Social Inequalities in Health Training Module Assignment](#)
- ▢ [Social Vulnerability Training Module Assignment](#)
- ▢ [Social Vulnerability and Disasters Training Module Assignment](#)
- ▢ [Social Vulnerability and Emergency Preparedness](#)
- ▢ [Social Vulnerability and Engineering Training Module Assignment](#)
- ▢ [Social Vulnerability and Warning Systems Training Module Assignment](#)
- ▢ [Understanding Mental Health as Public Health Assignment](#)

Graduate Course Assignments

- ▢ [Disaster Mental Health Training Module Assignment](#)
- ▢ [Human and Social Factors of Disaster Training Module and Tabletop Exercise](#)
- ▢ [Research Design and Methods Training Module Assignment](#)

Undergraduate and Graduate Course Assignments

- ▢ [Disasters and Public Health Assignment](#)
- ▢ [Puerto Rico Resiliency Lab Training Module Assignment](#)

Authors

- [Heather Champeau](#)
- [Divya Chandrasekhar](#)
- [Nicole Errett](#)
- [Jake Fast](#)
- [Reggie J. Ferreira](#)
- [Eric Krieg](#)
- [Ivis Garcia](#)
- [Christine Gibb](#)
- [Hans M. Louis-Charles](#)
- [Rejina Manandhar](#)
- [Adenife Modile](#)
- [Christi M. Navarro](#)
- [Lori Peek](#)
- [George Schwartz](#)
- [Adam C. Sutkus](#)

If you have an assignment to contribute as a shared resource for our broader community, please contact us at converge@colorado.edu.

This material is based upon work supported by the National Science Foundation (NSF Award #1841338). Any opinions, findings, conclusions, or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the NSF.

CONVERGE | Natural Hazards Center | CU Boulder
483 UCB | Boulder, CO 80309-0483 | (303) 735-5844
converge@colorado.edu | hazards.colorado.edu



University of Colorado Boulder

CONVERGE: NHERI's Social Science Facility

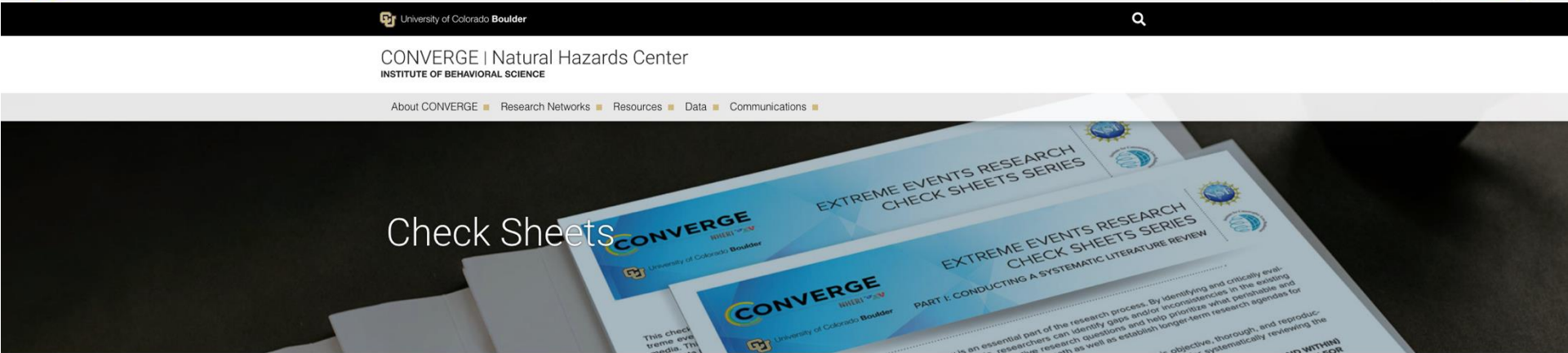
Additional CONVERGE Publications



University of Colorado Boulder

CONVERGE: NHERI's Social Science Facility

Check Sheets



[Resources](#) / [Check Sheets](#)

Extreme Events Research Check Sheets Series

These short, graphical check sheets are meant to be used as researchers design their studies, prepare to enter the field, conduct field research, and exit the field. The series offers best practices for extreme events research and includes check sheets for free to the research community.



converge.colorado.edu/resources



University of Colorado **Boulder**

NSF Award #1841338

IRGE: NHERI's Social
Science Facility

Webinars and Virtual Forums

converge.colorado.edu/category/webinars/
converge.colorado.edu/category/virtual-forums/



[Communications](#) / CONVERGE Webinar Series

CONVERGE webinars feature updates regarding new projects and initiatives relevant to various research communities. Please see below for informational and demonstration webinars describing key resources available to the hazards and disaster research community.

Past Webinar Recordings:



[Communications](#) / CONVERGE Virtual Forums

Communicate. Coordinate. Collaborate.

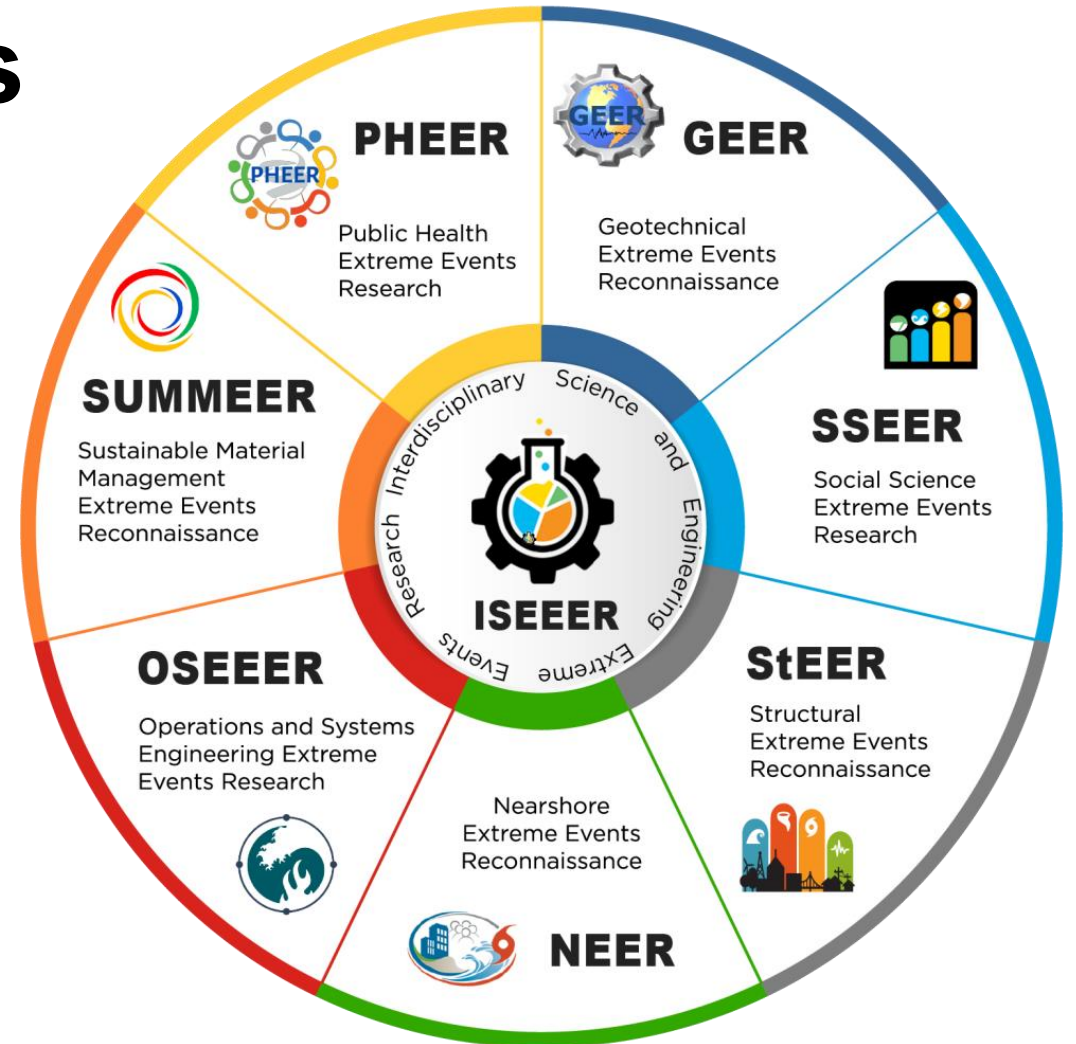
CONVERGE Virtual Forums bring together researchers and research partners to more effectively *communicate, coordinate, and collaborate* after major disaster events. These forums focus on identifying research needs and priorities, discussing ethical considerations, and learning about the early effects of disaster.

Past Forum Recordings:



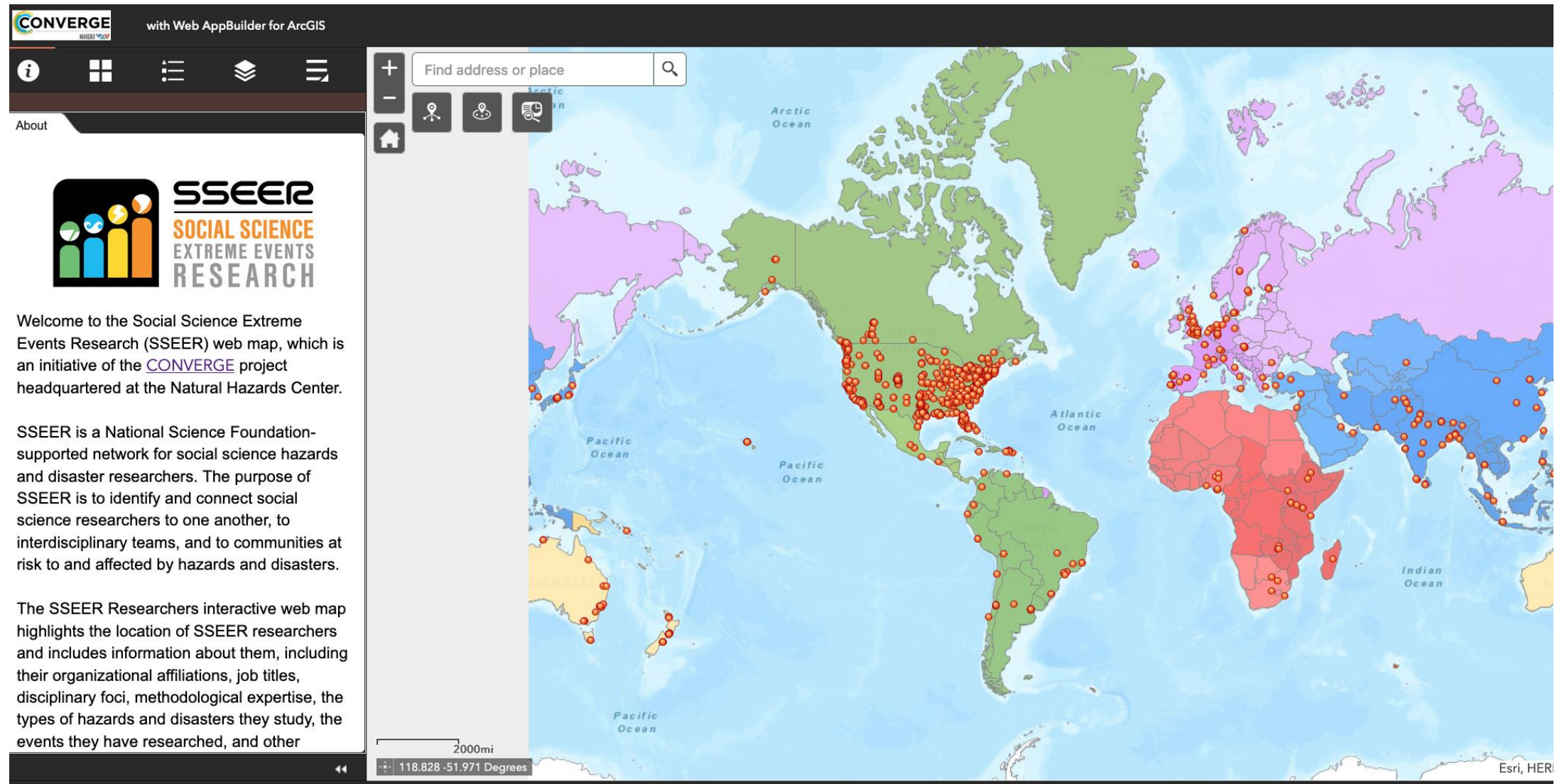
CONVERGE: NHERI's Social
Science Facility

NSF Extreme Events Reconnaissance / Research (EER) Networks



converge.colorado.edu/research-networks

SSEER Web Map



Data Ambassadors

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 [SAFE](#) 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
O'Yonville College

Research Instrument Repository:

Clay, L. (2020). "COVID-19 and Social Determinants of Health Data Collection Instrument Repository." DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>

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/10.7750/3462-862-862-862>

Data Report:

Clay, L., S. Penta, and P. Gadhoke. (2020). "Primary and Secondary Health Impacts of the COVID-19 Pandemic on New Yorkers (May-June 2020)." In National Flood Access and COVID Research Team (NFACT). New York, DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>



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/10.7750/3462-862-862-862>



Betty Lai
Assistant Professor, Department of Counseling, Developmental, and Educational Psychology
Western College

Interview Protocol:

Hodkova, 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/10.7750/3462-862-862-862>



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

Dataset:

Peek, L., E. Hines, M. Mathews, J. Cunderson, and H. Wu. (2020). "Global Academic Hazards and Disaster Research Centers Data." DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>

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/10.7750/3462-862-862-862>

Sutley, E., M. Dillard, S. Hamideh, W. Peacock, J. Tobin, L. Peek, K. Seong, A. Barbosa, T. Tomczak, 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/10.7750/3462-862-862-862>

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/10.7750/3462-862-862-862>



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/10.7750/3462-862-862-862>

Rosenheim, N., W. Peacock, M. Peral, and G. Laine. (2020). "Flood Retail Survey Instrument." In Flood Access Impact Survey for Southeast Texas and Harris County, Texas after Hurricane Harvey. DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>

Toolkit:

Rosenheim, N., M. Stanley, C. Goodman, A. Bernd, S. Hayes, E. Millard, J. Korukonda, and M. Watson. (2020). "Systematic Literature Review Toolkit." DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>



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

Research Instrument:

Smith, G., O. Vito, 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/10.7750/3462-862-862-862>



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. Tomczak, 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/10.7750/3462-862-862-862>

Xiao, Y., M. Watson, J. Helgeson, K. Farahnia, J. van de Lindt, J. Mitani-Reiser, E. Sutley, D. Deniz, T. Tomczak, A. Barbosa, J. Fung, O. Nofal, and M. Kofou, (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/10.7750/3462-862-862-862>



Haoran Wu
Assistant Professor, School of Social Work
Duquesne University

Dataset:

Peek, L., E. Hines, M. Mathews, J. Cunderson, and H. Wu. (2020). "Global Academic Hazards and Disaster Research Centers Data." DesignSafe-CI. <https://doi.org/10.7750/3462-862-862-862>

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/10.7750/3462-862-862-862>



H. Tristram 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/10.7750/3462-862-862-862>

Metrics



- **23,795** Training Module Completions
- **17,633** Training Module Registrants
- **50** Extreme Events Research Check Sheets
- **26** Recorded Webinars
- **15** Recorded Virtual Forums
- **18** Peer-Reviewed Publications
- **8** Research Reports
- **17** Trained Data Ambassadors
- **18** Published Datasets



University of Colorado **Boulder**

THANK YOU



Questions? Contact:

CONVERGE@colorado.edu

hazards.colorado.edu

converge.colorado.edu

Subscribe Now



NSF Award #1635593 and #1841338



CONVERGE is supported by the National Science Foundation award CMMI 1841338. Any statements in this material are those of the presenter(s) and do not necessarily reflect the views of the National Science Foundation.



Natural Hazards
Center



CONVERGE