



We envision a just and equitable world where knowledge is applied to ensure that humans live in harmony with nature.



CONVERGE: NHERI's Social Science Facility

Melissa Villarreal, MA
Research Graduate Assistant
Natural Hazards Center and CONVERGE
University of Colorado Boulder



University of Colorado **Boulder**

NSF Award #1841338





NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE (NHERI)



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

**NATURAL
HAZARDS
CENTER**



CONVERGE



CONVERGE

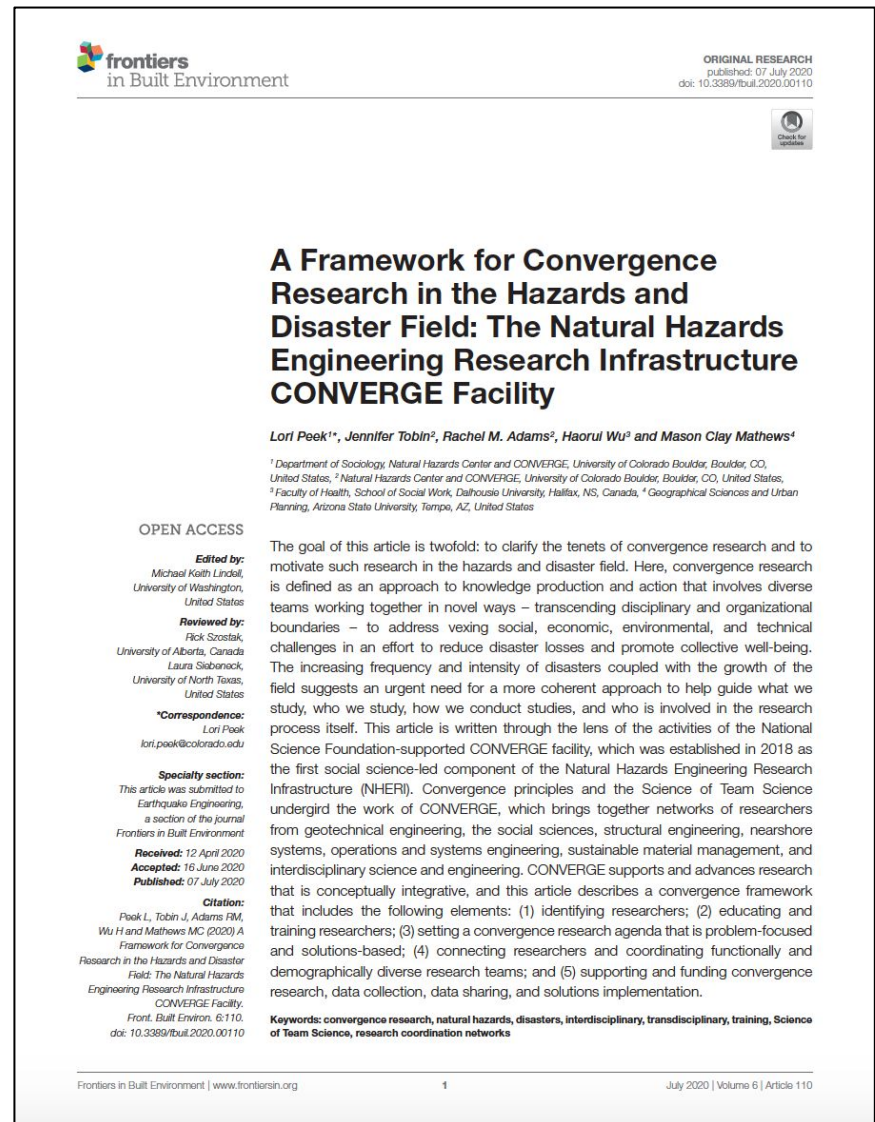
CONVERGE is a new National Science Foundation-Natural Hazards Engineering Research Infrastructure (NSF-NHERI) facility dedicated to:

- **identifying** researchers;
- **educating** and **training** researchers;
- **setting** a convergence research agenda that is problem-focused and solutions-based;
- **connecting** researchers and **coordinating** functionally and demographically diverse research teams; and
- **supporting** and **funding** convergence research, data collection, data sharing, and solutions implementation.



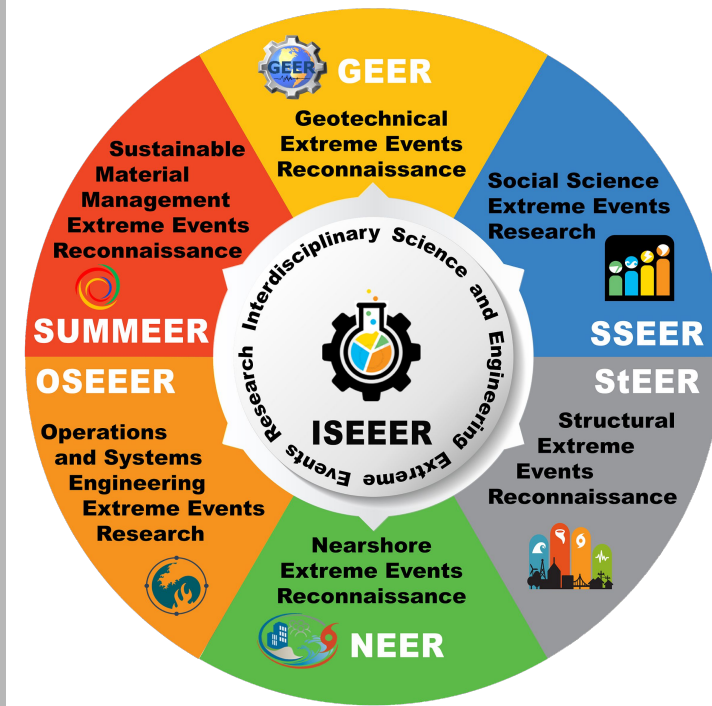
CONVERGE

- In 2020 we published an article on CONVERGE in *Frontiers in Built Environment*
- This article synthesizes 20 years of convergence research in an effort to bring that framework to the natural hazards field
- Access the article for free online at:
<https://www.frontiersin.org/article/s/10.3389/fbuil.2020.00110/full>

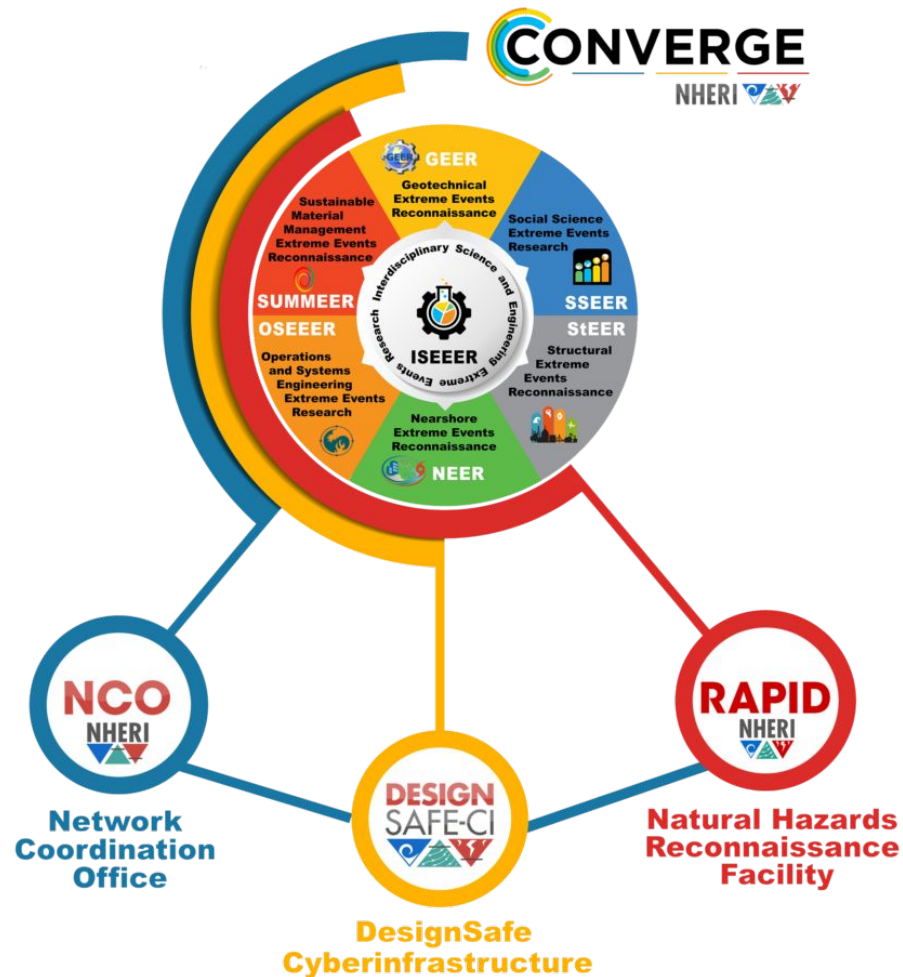


NSF Extreme Events Reconnaissance / Research (EER) Networks

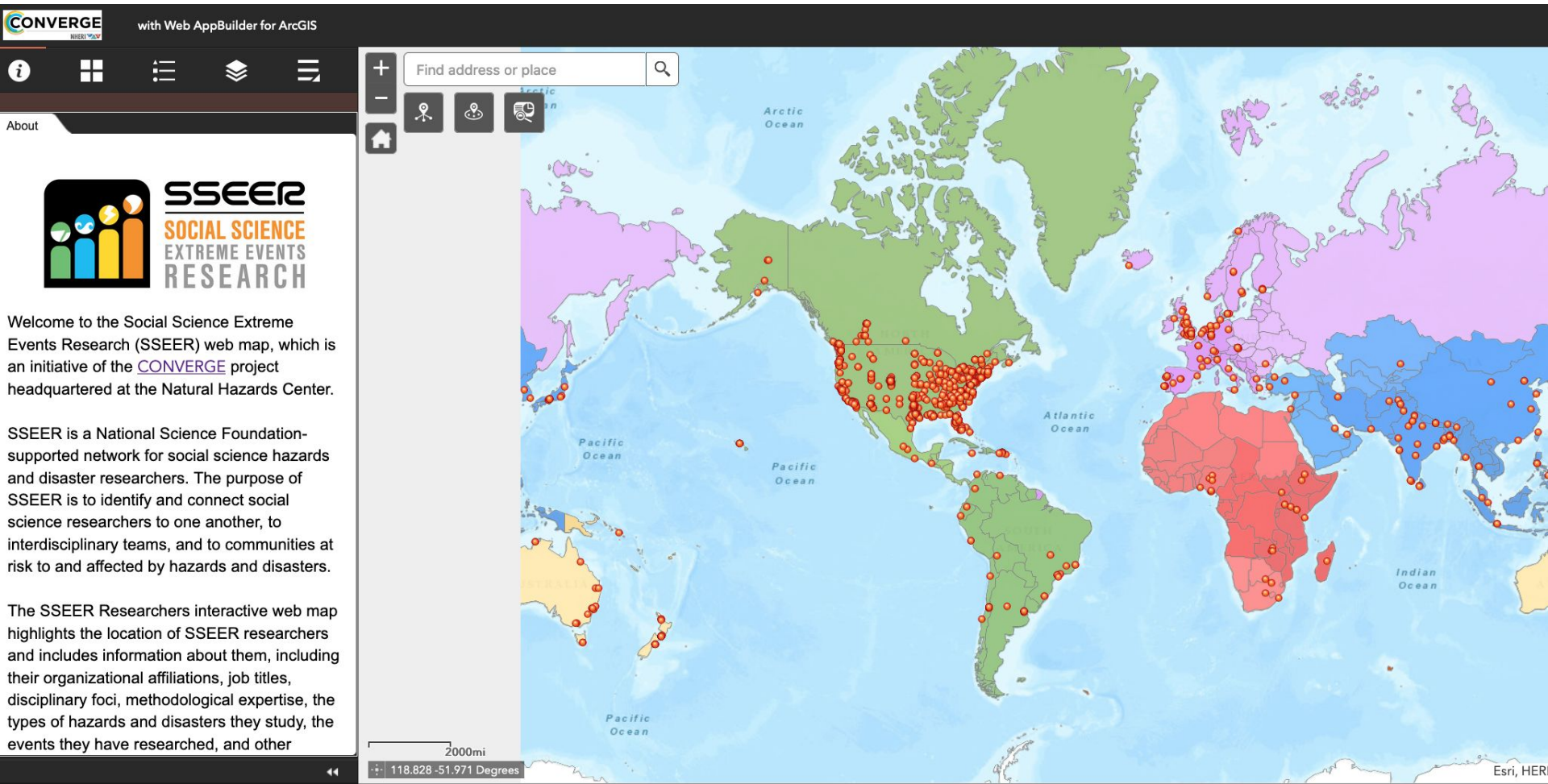
1. Geotechnical Engineering (GEER)
2. Social Sciences (SSEER)
3. Structural Engineering (StEER)
4. Nearshore Systems (NEER)
5. Operations and Systems Engineering (OSEER)
6. Sustainable Material Management Engineering (SUMMEER)
7. Interdisciplinary Science and Engineering (ISEEER)



Leadership Corps for Natural Hazards Research













SSEER



CONVERGE Training Modules

- Free, online courses designed to accelerate the training of diverse hazards and disaster researchers, including students and early career researchers

 <p>Broader Ethical Considerations for Hazards and Disaster Researchers</p> <p>This Training Module focuses on the broader ethical considerations for conducting research in a disaster setting.</p> <p>Authors: Adams, Rachel M., Candace M. Evans, and Lori Peek</p> <p>Funding Support: Centers for Disease Control and Prevention and National Science Foundation</p> <p>Register</p>	 <p>Collecting and Sharing Perishable Data</p> <p>This Training Module focuses on ways to collect and share perishable hazards and disaster data.</p> <p>Authors: Evans, Candace M., Rachel M. Adams, and Lori Peek</p> <p>Funding Support: Centers for Disease Control and Prevention and National Science Foundation</p> <p>Register</p>	 <p>Conducting Emotionally Challenging Research</p> <p>This Training Module describes emotionally challenging research and highlights the ways that recognizing researchers' emotions can lead to more ethical and methodologically sound research practices in the context of extreme events.</p> <p>Authors: Fehr, Tracy, Skye Niles, Bertha Alicia Bermudez Tapia, Candace Evans, Rachel M. Adams, and Lori Peek</p> <p>Funding Support: National Science Foundation</p> <p>Register</p>	 <p>Cultural Competence in Hazards and Disaster Research</p> <p>This Training Module focuses on culturally competent research and offers guidance on how hazards and disaster researchers can build cultural competence.</p> <p>Authors: Wu, Haorui, Rachel M. Adams, Candace M. Evans, Melissa Villarreal, Lori Peek, and Irena Papadopoulos</p> <p>Funding Support: National Science Foundation</p> <p>Register</p>	 <p>Disaster Mental Health</p> <p>This Training Module focuses on mental health outcomes associated with disasters, with a particular emphasis on risk factors over time that make certain populations vulnerable to poor disaster mental health outcomes.</p> <p>Authors: Adams, Rachel, Candace M. Evans, and Lori Peek</p> <p>Funding Support: Centers for Disease Control and Prevention and National Science Foundation</p> <p>Register</p>
 <p>Institutional Review Board (IRB) Procedures and Extreme Events Research</p> <p>This Training Module introduces users to Institutional Review Board (IRB) procedures and offers guidance on how to work with the IRB to ensure ethical extreme events research.</p> <p>Authors: Wu, Haorui, Melissa Villarreal, Rachel M. Adams, Candace M. Evans, and Lori Peek</p> <p>Funding Support: National Science Foundation</p> <p>Register</p>	 <p>Public Health Implications of Hazards and Disaster</p> <p>This module bridges public health and hazards and disaster research by showcasing case studies with important implications for public health.</p> <p>Authors: Hansen, Alexa, Courtney Welton-Mitchell, Rachel M. Adams, Candace M. Evans, and Lori Peek</p> <p>Funding Support: Centers for Disease Control and Prevention and National Science Foundation</p> <p>Register</p>	 <p>Reciprocity in Hazards and Disaster Research</p> <p>This Training Module focuses on the reciprocal relationship between researchers and disaster affected communities, with an emphasis on providing mutual benefits for both the people involved with and affected by hazards, as well as those participating in disaster research.</p> <p>Authors: West, Jocelyn, Heather Champeau, Jessica Austin, Candace M. Evans, Rachel M. Adams, and Lori Peek</p> <p>Funding Support: U.S. Geological Survey and National Science Foundation</p> <p>Register</p>	 <p>Social Vulnerability and Disasters</p> <p>This Training Module focuses on social vulnerability to hazards and disasters, with an emphasis on population groups that have been identified in the literature as especially at risk to the adverse effects of extreme events.</p> <p>Authors: Adams, Rachel, Candace M. Evans, and Lori Peek</p> <p>Funding Support: Centers for Disease Control and Prevention and National Science Foundation</p> <p>Register</p>	 <p>Understanding and Ending Gender-Based Violence in Fieldwork</p> <p>This module describes gender-based violence in the context of field research and provides an in-depth exploration of misconceptions, real life scenarios, and strategies for safe fieldwork practices.</p> <p>Authors: Heinze Jerika, Rachel M. Adams, Candace M. Evans, and Lori Peek</p> <p>Funding Support: National Science Foundation</p> <p>Register</p>

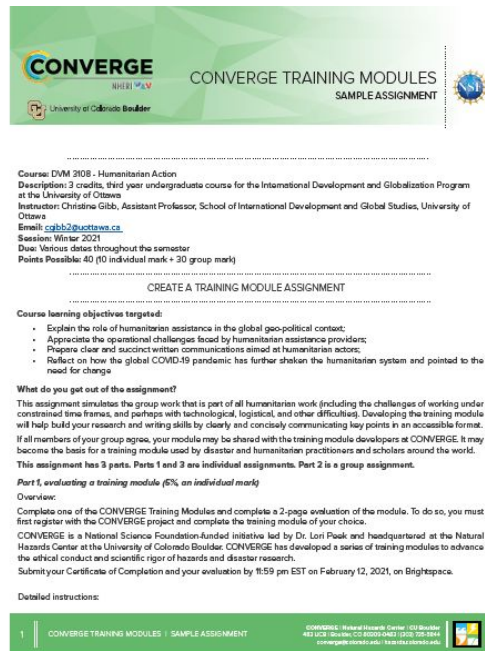


converge.colorado.edu/training-modules



CONVERGE Training Modules

- Worth 1 contact hour of general management training through the International Association of Emergency Managers (IAEM) certification program.
- Assignment bank for course for instructors
- Annotated bibliographies to complement training module



CONVERGE UNIVERSITY OF COLORADO BOULDER

CONVERGE TRAINING MODULES
SAMPLE ASSIGNMENT

Course: DVM 3018 - Humanitarian Action
Description: 3 credits, third year undergraduate course for the International Development and Globalization Program at the University of Colorado
Instructor: Christina Gibb, Assistant Professor, School of International Development and Global Studies, University of Colorado
Email: cggibb2@colorado.edu
Session: Winter 2021
Due: Various dates throughout the semester
Points Possible: 40 (10 individual mark + 30 group mark)

CREATE A TRAINING MODULE ASSIGNMENT

Course learning objectives targeted:

- Explain the role of humanitarian assistance in the global geo-political context;
- Appreciate the operational challenges faced by humanitarian assistance providers;
- Prepare clear and succinct written communications aimed at humanitarian actors;
- Reflect on how the global COVID-19 pandemic has further shaken the humanitarian system and pointed to the need for change

What do you get out of the assignment?

This assignment simulates the group work that is part of all humanitarian work (including the challenges of working under constrained time frames, and perhaps with technological, logistical, and other difficulties). Developing the training module will help build your research and writing skills by clearly and concisely communicating key points in an accessible format. If all members of your group agree, your module may be shared with the training module developers at CONVERGE. It may become the basis for a training module used by disaster and humanitarian practitioners and scholars around the world.

This assignment has 3 parts. Parts 1 and 3 are individual assignments. Part 2 is a group assignment.

Part 1, evaluating a training module (6%, an individual mark)

Overview:

Complete one of the CONVERGE Training Modules and complete a 2-page evaluation of the module. To do so, you must first register with the CONVERGE project and complete the training module of your choice.


CONVERGE is a National Science Foundation-funded initiative led by Dr. Lori Peek and headquartered at the Natural Hazards Center at the University of Colorado Boulder. CONVERGE has developed a series of training modules to advance the ethical conduct and scientific rigor of hazards and disaster research.

Submit your Certificate of Completion and your evaluation by 11:59 pm EST on February 12, 2021, on Brightspace.

Detailed instructions:

1 | CONVERGE TRAINING MODULES | SAMPLE ASSIGNMENT

CONVERGE | Natural Hazards Center | CO Boulder
463 UCB | Boulder, Colorado 80509-0463 USA | (303) 755-0844
converge@colorado.edu | <https://converge.colorado.edu>



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CONVERGE Public Health and Disaster Research Annotated Bibliography

This annotated bibliography includes resources that bridge public health and hazards and disaster research by showcasing studies with important implications for public health practice, policy, systems, and equity. It is meant to complement the CONVERGE Public Health Implications of Hazards and Disaster Research Training Module. If you identify missing references, please send them to converge@colorado.edu, and we will add them to the list.

Citation

Adams, E. H., Scanlon, E., Callahan III, J. J., & Carney, M. T. (2010). Utilization of an incident command system for a public health threat: West Nile virus in Nassau County, New York, 2008. *Journal of Public Health Management and Practice*, 16(4), 309-315. <https://doi.org/10.1097/PHH.0b013e3181b88392>

Abstract

The summer of 2008 in Nassau County, New York, was marked by a historic season of human West Nile virus illness and West Nile virus activity in mosquitoes. The commissioner of Health of the State of New York declared a public health threat, and a decision was made to use additional resources for mosquito control. In contrast to prior years, the Nassau County Department of Health utilized the Incident Command System (ICS) to coordinate a multidisciplinary and multi-department response to this public health threat. Implementing the ICS ensured coordination and communication between multiple county departments and organizations in the community. The effective response demonstrated that a local health department can mobilize to meet the needs of a public health threat through the use of the ICS. Nassau County Department of Health learned that the ICS is ideal for complex, multidisciplinary operations because of its clear chain of command, transparent organization structure, and flexibility.

Citation

Adams, R. M., Evans, C., Wolkin, A., Thomas, T., & Peek, L. (2022). Social vulnerability and disasters: Development and evaluation of a CONVERGE training module for researchers and practitioners. *Forthcoming in Disaster Prevention and Management*.

Abstract

Purpose: Social vulnerability within the context of disaster management refers to the sociodemographic factors that influence one's capacity to anticipate, cope with, resist, and recover from disasters. Because disasters do not impact people equally, interdisciplinary researchers, public health practitioners, and emergency managers need training to meet the complex needs of socially vulnerable populations.

Design/Methodology/Approach: To address gaps in current education, the CONVERGE initiative, headquartered at the Natural Hazards Center at the University of Colorado Boulder, developed the Social Vulnerability and Disasters Training Module. This free online course draws on decades of research to examine the factors that influence social vulnerability to disasters. Examples of studies and evidence-based programs are included to illuminate common methods for studying social vulnerability and ways that research can guide practice. To evaluate the module, all trainees completed a pre- and post-training questionnaire.

Findings: Between July 2019 and January 2021, 651 people completed the module. Wilcoxon Signed Rank tests demonstrated a significant increase in self-rated knowledge, skills, and attitudes. Students, members of historically underserved populations, and those new or less experienced in the field, had the greatest increase.

Practical Implications: This training module can help diverse participants understand the specific needs of socially vulnerable populations to help reduce human suffering from disasters.

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converge@colorado.edu | <https://converge.colorado.edu>



Check Sheets

University of Colorado Boulder



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INSTITUTE OF BEHAVIORAL SCIENCE

About CONVERGE ■ Research Networks ■ Resources ■ Data ■ Communications ■

Check Sheets

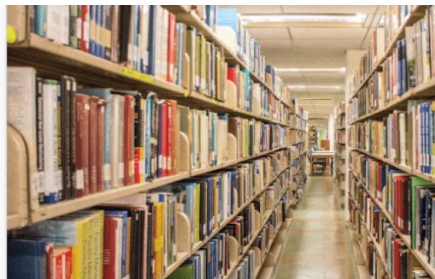
[Resources](#) / Check Sheets

Extreme Events Research Check Sheets Series

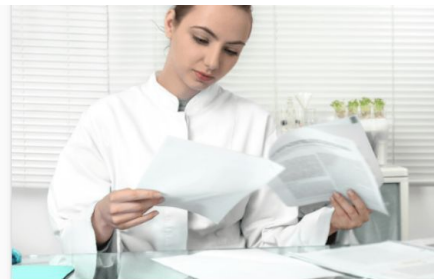
These short, graphical check sheets are meant to be used as researchers design their studies, prepare to enter the field, conduct field research, and exit the field. The series offers best practices for extreme events research and includes check sheets for free to the research community.



RESEARCH DESIGN TABLE



PART I: CONDUCTING A SYSTEMATIC LITERATURE REVIEW



PART II: SYSTEMATIC LITERATURE REVIEW TABLE



DON'T FORGET: A CHECKLIST OF THINGS TO BRING TO THE FIELD

NSF Award #1841338



converge.colorado.edu/resources



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
D'Youville College

Research Instrument Repository:

Clay, L. (2020). "COVID-19 and Social Determinants of Health Data Collection Instrument Repository." DesignSafe-CI. <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 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. Gadhoke. (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-xe2x-xa40>



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-dn0z-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-erzs-1690>



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/ds2-9wq-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, 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/ds2-9mt9-3s33>

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/ds2-8b3h-gy28>

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/ds2-9uz8-7f76>



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/ds2-9mt9-3s33>

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-ae2k-dy92>

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., O. Villa, 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-sjbn-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/ds2-8b3h-gy28>

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-f9kt-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/ds2-9wq-qz57>

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/ds2-9uz8-7f76>



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-xt68-6b42>

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COVID-19 Resources

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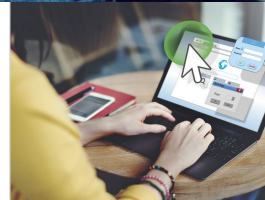
COVID-19 Resources



COVID-19 Working Groups

Due to the outpouring of interest from the research community and our mission to advance convergence research for the benefit of humanity, CONVERGE and the Social Science Extreme Events Research (SSEER) Network have funded 90 COVID-19 Working Groups for Public Health and Social Sciences Research.

[View Groups](#)



COVID-19 Research Registry

The COVID-19 pandemic underscores the urgent need for coordination, collaboration, and information-sharing among researchers worldwide. We hope those who are studying the human and societal impacts of this crisis will join this effort to build a global registry for public health and social science research.

[Learn More](#)



COVID-19 Virtual Forums

CONVERGE virtual forums bring together researchers to coordinate and collaborate after major events. Please check here for upcoming virtual forums and recordings of past forums.

[View Forums](#)



COVID-19 Quick Response Research Grants

This is a list of recently funded COVID-19 Quick Response Research. These were awarded by the Natural Hazards Center as part of two distinct special calls for research on this global crisis. Within three months of completing data collection, researchers submit an abstract and 10-page report detailing their preliminary findings. Completed reports are available on the Quick Response Reports page.

[View All](#)

Webinars



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CONVERGE Webinar Series



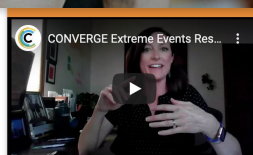
CONVERGE Collecting and Sharing Data
Perishable Data Training Module: A
Demonstration Webinar

Aug 6, 2021 - 12 to 12:30 pm MT



CONVERGE Training Modules A-Z
Make CONVERGE Training Modules
Part of Your College/University Course
—Here's How!

Jul 15, 2021 - 2 to 3:15 pm MT



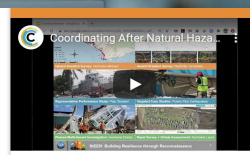
CONVERGE Extreme Events Research
Check Sheets

Jun 15, 2021 - 10 to 10:30 am MT



Mobile Data Collection via RApp:
Advanced Questionnaires

Dec 11, 2020 - 11 to 11:30 am MT



Coordinating After Natural Hazards to
Document the Performance of the Built
Environment: The Structural Extreme
Events Reconnaissance (STEER)
Network

Oct 23, 2020 - 1 to 1:30 pm MT



CONVERGE Conducting Emotionally
Challenging Research Training Module:
A Demonstration Webinar

Oct 8, 2020 - 2 to 2:30 pm MT



CONVERGE Broader Ethical
Considerations for Hazards and
Disaster Researchers Training Module:
A Demonstration Webinar

Apr 15, 2021 - 10 to 10:30 am MT



CONVERGE Understanding and Ending
Gender-Based Violence in Fieldwork
Training Module: A Demonstration
Webinar

Mar 16, 2021 - 3 to 3:30 pm MT



Publish Your Data! Learn How to Use
DesignSafe and Meet the CONVERGE
Data Ambassadors

Jan 29, 2021 - 1 to 1:30 pm MT



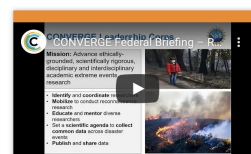
Collaborating to Learn from Hurricanes:
The Nearshore Extreme Events
Reconnaissance (NEER) Association

Aug 11, 2020 - 2:30 to 3 pm MT



CONVERGE Institutional Review Board
(IRB) Procedures and Extreme Events
Research Training Module: A
Demonstration Webinar

Jun 25, 2020 - 12 to 12:30 pm MT



CONVERGE Federal Briefing – Rapid
Response Disaster Research: NSF-
Supported Research Networks and
Resources

May 20, 2020 - 10 am to 12 pm MT

Work Environment: CONVERGE Team

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CONVERGE Team



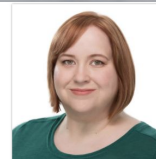
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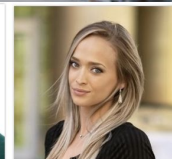
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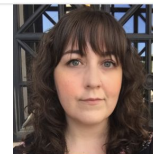


Lori Peek

Principal Investigator, CONVERGE, Social Science Extreme
Events Research (SSEER) Network, and Interdisciplinary
Science and Engineering Extreme Events Research (ISEER)
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We envision a just and equitable world where knowledge is applied to ensure that humans live in harmony with nature.



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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.



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NHERI The logo for the National Hazardous Event Response Initiative (NHERI), featuring a stylized 'NHERI' in blue and red.