

MELANIE GALL, PH.D., CFM

Center for Emergency Management and Homeland Security
School of Public Affairs

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AREAS OF SPECIALIZATION

Natural hazards and disasters	Disaster losses
Risk metrics and indices	Emergency management
Vulnerability and resilience	Applied GIS and remote sensing
Hazard mitigation and risk reduction	Environmental justice

EDUCATION

2007 Ph.D. University of South Carolina, Geography
"Indices of Social Vulnerability to Natural Hazards: A Comparative Evaluation"
Advisor: Susan L. Cutter

2002 M.S. University of Salzburg (Austria), Geography & Geoinformatics
"GIS and Multicriteria Decision Making in Disaster Management: The Identification of Flood Emergency Shelters in the Búzi and Save River Basin (Mozambique)"
Advisor: Josef Strobl

1999 B.S. University of Heidelberg (Germany), Geography

1998 ERASMUS Study Abroad, University of Bergen (Norway), Anthropology & Norwegian

PROFESSIONAL HISTORY

2022-present *Assistant Professor (tenure track)*, School of Public Affairs
co-Director, Ctr for Emergency Management & Homeland Security (CEMHS)
Affiliate Faculty, School of Geographical Sciences and Urban Planning
Senior Global Futures Scientist, Global Futures
Arizona State University

2017-2022 *Research/Clinical Professor (non-tenure track)*, *co-Director*, Center for Emergency Management & Homeland Security (CEMHS)
Affiliate Faculty, School of Geographical Sciences and Urban Planning
Arizona State University

2013-2016 *Research Assistant Professor (non-tenure track)*,
Hazards & Vulnerability Research Institute, University of South Carolina

2013-2014 *Program Faculty*, Emergency Management & Homeland Security Leadership Program, Portland State University

2012-2013 *Visiting Assistant Professor*
Department of History & Sociology, Claflin University

2008-2013 *Assistant Professor – Research (non-tenure track)* and *Director* of the Disaster Science and Management Center, Department of Geography & Anthropology, Louisiana State University; *Affiliate* at the Stephenson Disaster Management Institute

2007-2008 *Postdoctoral Fellow*
Hazards & Vulnerability Research Institute, University of South Carolina

2000/2001 *Junior Technical Expert*
Centro da Investigação e Documentação para Desenvolvimento Integral (CIDDI-GIS), Catholic University of Mozambique at Beira

1995-1997 *SICAD Technician*, Photogrammetrie München, Heidelberg (Germany)

ACADEMIC HONORS & AWARDS

2022-present Impact Scholar, Knowledge Exchange for Resilience, Arizona State University

2022 & 2024 North American Alliance of Hazards and Disaster Research Institutes (NAAHDRI) Engagement Award



2020	Fellow, Knowledge Exchange for Resilience, Arizona State University
2018	Outstanding Reviewer Award for Computers, Environment, and Urban Systems
2014	Outstanding Reviewer Award for the Natural Hazards Review, American Society of Civil Engineers
2009	Service-Learning Faculty Scholars Award, Louisiana State University
2004	Jeanne X. Kasperson Student Paper Award Hazards Specialty Group, Association of American Geographers.
2004	Paul E. Lovingood Student Paper Award Department of Geography, University of South Carolina at Columbia.
2003 – 2005	International Peace Scholarship, P.E.O. Sisterhood
2002 – 2007	Tuition Scholarship, University of South Carolina

RESEARCH

PUBLICATIONS

GOOGLE SCHOLAR CITATIONS: 2,798, H-INDEX: 23, I10-INDEX: 34

SCOPUS CITATIONS: 1,090, H-INDEX: 14

WEB OF SCIENCE CITATIONS: 934, H-INDEX: 13

Co-authorship key (at writing): ^{UG}undergraduate student, ^Ggraduate student, ^{PD}postdoctoral researcher, ^{CP}community partner, and ^{PP}public partner (government, NGO, industry).

Books

Cutter, S.L., M. Gall, and C. Rubin (eds.). U.S. Emergency Management in the 21st century: from disaster to catastrophe. 2nd edition. Routledge [in production, release date: March 21, 2025].



Manuscripts under review

Lawrence, K. G., M. Sweeney, E. J. Werder, W. B. Jackson II, D. Chen, K. E. Christenbury, C. Zuzak, **M. Gall**, C. T. Emrich, L. S. Engel, and D. P. Sander. Cardiovascular disease risk factors associated with residential natural hazard risk. *Environment International* [IF: 13.35] [under review]

Ali^G, J., T. Wahl, J. Morim, A. Enriquez, **M. Gall**, and C. T. Emrich. Multivariate compound events drive historical floods and associated losses along the U.S. East and Gulf Coasts. *npj Natural Hazards* [under review]

Helmrich, A., B. Gerber, **M. Gall**, P. Horton, M. El Asmar, M. Neveu, R. El Kassis^G, H. Sanboskani^G, K. Vemulapalli^G, A. Vogel^{UG}, Y. Yu^G, D. White. Developing Long-term Risk & Resilience Management Strategies for Physical Asset and Critical Infrastructure Portfolios. *Frontiers in Built Environment*. [IF: 2.2] [under review]

Taghinezhad^G, A., A. Al Assi^G, C. J. Friedland, C. T. Emrich, Md A. Rahim, **M. Gall**, R. B. Mostafiz^{PD}, and R. V. Rohli. Flood risk and mitigation calculator tool to Support Residents and Decision-Makers to Make Communities More Resilient. *Frontiers in Built Environment*. [IF: 2.2] [under review]

Delos Santos^G, C., E. Boyle^G, P. Jevtic, and **M. Gall**. Effects of Natural Hazards on Spatio-Temporal Patterns of Violent Crime in the United States. *American Journal of Criminal Justice*. [IF: 1.8] [under review]

Gall, M., E. Boyle^G, P. Jevtic, and S. L. Cutter. U.S. Disaster Normals. *Natural Hazards* [IF: 3.7] [under review]

Gall, M., P. Li^G, and C. J. Friedland. Strategic Hazard Mitigation Planning. *International Journal of Disaster Risk Reduction*. [IF: 4.2] [revise and resubmit].

Zhou, Y, C. T. Emrich, and **M. Gall**. Knowing more about losing more: Exploring spatial-temporal patterns of damaging thunderstorm-related events in the contiguous United States. *Annals of the American Association of Geographers*. [IF: 3.9] [revise and resubmit]



Peer-reviewed Journal Publications

- [28] Ritchie, L.A., S. L. Cutter, N. Campbell, and **M. Gall** (forthcoming). The New Vulnerable: Changing Contexts of Food Insecurity in the United States. *Environment* [IF: 3.5].
- [27] **Gall, M.** 2024. Katastrophenmanagement und Soziale Dienste: Erfahrungen aus den USA [Emergency Management and Social Services: Experiences from the U.S.]. *Sozialmagazin* 9-10: 81-86. <https://doi.org/10.3262/SM2410081>
- [26] Al Assi^G, A., R. B. Mostafiz^{PD}, F. Orooji, A. Taghinezhad^G, T., **M. Gall**, R. V. Rohli, C. T. Emrich, C. J. Friedland, and E. Johnson. 2024. Wind Risk and Mitigation Calculator Framework for Determining the Wind Annualized Risk for Single- and Multi-Family Homes to Support Resilient Community Decision-Making. *Resilient Cities and Structures*. <https://doi.org/10.1016/j.rcns.2024.08.002> [CiteScore: 3.2]
- [25] Lawrence, K., M. Sweeney, E. Werder, C. Zuzak^{PP}, **M. Gall**, C. Emrich, F. Cochran, X. Deng, W. B. Jackson II, K. Christenbury, L. Engel, and D. Sandler. 2024. Residential natural hazard risk and adverse mental health outcomes. *American Journal of Epidemiology*. <https://doi.org/10.1093/aje/kwae200> [IF: 5.0]
- [24] Andresen^G, A., L. C. Kurtz^G, P. M. Chakalian, D. M. Hondula, S. Meerow, and **M. Gall**. 2024. A comparative assessment of household power failure coping strategies in three American cities. *Energy Research & Social Science* 114: 103573. <https://doi.org/10.1016/j.erss.2024.103573> [IF: 6.7]
- [23] Ali^G, J., A., T. Wahl, A. R. Enriquez^{PD}, Md M. Rashid^G, J. Morim^G, **M. Gall**, C. T. Emrich. 2023. The Role of Compound Climate and Weather Extreme Events in Creating Socio-economic Impacts in South Florida. *Weather and Climate Extremes* 24: 100625. <https://doi.org/10.1016/j.wace.2023.100625> [IF: 8.06]
- [22] Andresen^G, A., L. Kurtz^G, D. Hondula, S. Meerow, and **M. Gall**. 2023. Understanding the Social Impacts of Power Outages in North America: A Systematic Review. *Environmental Research Letters* 18:053004. <https://doi.org/10.1088/1748-9326/acc7b9> [IF: 6.947]
- [21] Mostafiz, R., R. V. Rohli, C. J. Friedland, **M. Gall**, and N. Bushra^G. 2022. Future Crop Risk Estimation Due to Drought, Extreme Temperature, Hail, Lightning, and Tornado at the Census Tract Level in Louisiana. *Frontiers in Environmental Science*. <https://doi.org/10.1002/essoar.10511931.2> [IF: 5.411]
- [20] **Gall, M.**, T. Sheldon, and L. Collins. 2022. The economic impact of disaster-related school closures. *Risks, Hazards, and Crisis in Public Policy* 13(3): 255-276. <https://doi.org/10.1002/rhc3.12242> [IF Scopus: 3.372]
- [19] Hu, M. D., K. G. Lawrence, **M. Gall**, C. T. Emrich, M. R. Bodkin, W. B. Jackson, N. MacNell, R. K. Kwok, L. S. Engel, and D. P. Sandler. 2021. Natural Hazards and Mental Health among US Gulf Coast Residents. *Journal of Exposure Science and Environmental Epidemiology* 31(5): 842-851. <https://doi.org/10.1038/s41370-021-00301-z> [IF: 6.371]
- [18] Mostafiz, R, C. J. Friedland, R. V. Rohli, **M. Gall**, N. Bushra^G, and J. M. Gilliland^G. 2020. Census-Block-Level Property Risk Estimation Due to Extreme Cold Temperature, Hail, Lightning, and Tornadoes in Louisiana, U.S.A. *Frontiers in Earth Science*. <https://doi.org/10.3389/feart.2020.601624>. [IF: 3.661]
- [17] **Gall, M.** and Carol J. Friedland. 2020. If Mitigation Saves \$6 Per Every \$1 Spent, Then Why Are We Not Investing More? A Louisiana Perspective on a National Issue. *Natural Hazards Review* 21(1). [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000342](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000342) [IF: 4.2]
- [16] de Sherbinin, A., A. Bukvic, G. Rohat, **M. Gall**, B. McCusker, B. Preston, A. Apotsos, C. Fish, S. Kienberger, P. Muhonda, O. Wilhelmi, D. Macharia, W. Shubert, R. Sliuzas, B. Tomaszewski, and S. Zhang. 2019. Climate change vulnerability mapping: a systematic review and recommendations for the future. *WIREs Climate Change*. <https://doi.org/10.1002/wcc.600> [IF: 10.072]
- [15] Cutter, S.L., Emrich, C.T., **M. Gall**, and R. Reeves. 2018. Flash flood risk and the paradox of urban **ASU** development. *Natural Hazards Review* 19(1): online. [IF: 4.2]
- [14] Cutter, S. L. and **M. Gall**. 2015. Sendai Targets at Risk. *Nature Climate Change* 5(8): 707-709.
- [13] **Gall, M.**, K. H. Nguyen^G, and S. L. Cutter. 2015. Integrated research on disaster risk: Is it really integrated? *International Journal of Disaster Risk Reduction* 12 (June): 255-267. <https://doi.org/10.1016/j.ijdrr.2015.01.010> [IF: 4.842]
- [12] **Gall, M.** 2015. The Suitability of Disaster Loss Databases to Measure Loss and Damage from Climate Change. *International Journal of Global Warming* 8(2): 170-190. [IF: 0.972]



- [11] Robinson, S. E., Brian J. Gerber, W. S. Eller, and **M. Gall**. 2013. Emergency planning and disabled populations: assessing the FNSS approach. *International Journal of Mass Emergencies and Disasters* 31(2): 315-329.
- [10] Robinson, S. E., W. S. Eller, **M. Gall**, and B. J. Gerber. 2013. The core and periphery of emergency management networks. *Public Management Review* 15(3): 344-362. [IF: 6.004]
- [9] Friedland, C. J. and **M. Gall**. 2012. True cost of hurricanes – case for a comprehensive understanding of multihazard building damage. *Leadership and Management in Engineering* 12(3): 134-146. [IF: 7.88]
- [8] Fielding, W. J., **M. Gall**, D. Green^{PP}, and W. S. Eller. 2012. Care of dogs and attitudes of dog owners in Port-au-Prince, the Republic of Haiti. *Journal of Applied Animal Welfare Science* 15(3): 236-253. [IF: 1.633]
- [7] **Gall, M.**, K. A. Borden, C. T. Emrich, and S. L. Cutter. 2011. The Unsustainable Trend of Natural Hazard Losses in the United States. *Sustainability* 3(11): 2157-2181 (DOI: 10.3390/su3112157). [IF: 3.889]
- [6] Melton^G, G., **M. Gall**, J. T. Mitchell, and S. L. Cutter. 2010. Hurricane Katrina surge delineation: implications for future storm surge forecasts and warnings. *Natural Hazards* 54(2): 519-536 (DOI: 10.1007/s11069-009-9483-z). [IF: 3.158]
- [5] **Gall, M.**, K. Borden^G, and S. L. Cutter. 2009. When do losses count? Six fallacies of loss data from natural hazards. *Bulletin of the American Meteorological Society* 90(6): 1-11. [IF: 9.116]
- [4] **Gall^G, M.**, B. J. Boruff, and S. L. Cutter. 2007. Assessing flood hazard zones in the absence of digital floodplain maps: a comparison of alternative approaches. *Natural Hazards Review* 8(1): 1–21. [IF: 4.2]
- [3] Cutter, S. L., C. T. Emrich^G, J. T. Mitchell, B. J. Boruff, **M. Gall^G**, M. Schmidlein^G, C. Burton^G, and G. Melton^G. 2006. The long road home: race, class, and recovery from Hurricane Katrina. *Environment* 48(2): 8-20.
- [2] **Gall^G, M.** 2004. Where to go? Access to emergency shelters in Mozambique. *Disasters* 28(1): 82-97. [IF: 3.311]
- [1] **Gall^G, M.**, S. Lang, and P. Zeil. 2001. After a catastrophe is before a catastrophe: GIS and remote sensing in emergency management in Mozambique [in German]. *GeoBIT/GIS* 11 (2001): 14-16.

Peer-Reviewed Book Chapters

- [16] Cutter, S.L., **M. Gall**, and C. Rubin (forthcoming). We were barely prepared for the past: we are not prepared for the new normal. In: Cutter, S.L., M. Gall, and C. Rubin (eds.). *U.S. Emergency Management in the 21st century: from disaster to catastrophe*. 2nd edition. Routledge [release date: March 21, 2025].
- [15] **M. Gall** (forthcoming). Not enough water: Drought emergencies in the American Southwest. In: Cutter, S.L., M. Gall, and C. Rubin (eds.). *U.S. Emergency Management in the 21st century: from disaster to catastrophe*. 2nd edition. Routledge [release date: March 21, 2025].
- [14] Clark, S. S., and **M. Gall** (forthcoming). From Phoenix to Buffalo: Experiences with extreme temperatures. In: Cutter, S.L., M. Gall, and C. Rubin (eds.). *U.S. Emergency Management in the 21st century: from disaster to catastrophe*. 2nd edition. Routledge [release date: March 21, 2025].
- [13] **Gall, M.** (forthcoming). Why insurance companies are pulling out of California and Florida, and how to fix some of the underlying problems. In: *The Conversation on Extreme Weather*. John Hopkins University Press. [anticipated release: Fall 2025, reprint]
- [12] Gerber, B. J, C. Provost and **M. Gall** (accepted). Environmental Governance in Western Europe: A Comparative Assessment of Local Sustainability Practices in the Presence of Climate Change Vulnerability. In: *Handbook of Environmental Governance*, edited by A. Sapat. Routledge: New York, NY.
- [11] **M. Gall** and S. L. Cutter (in press). Hurrikan Katrina: gescheiterte Planung oder geplantes Scheitern? [Hurricane Katrina: a failure of planning or planned failure?] In *Naturrisiken und Sozialkatastrophen* (2nd ed.), edited by C. Felgentreff and T. Glade. Heidelberg: Spektrum Akademischer Verlag.
- [10] Hayden, M. et al. (2023). Human Health. In: *Fifth National Climate Assessment*. Washington, D.C.: U.S. Global Change Research Program. <https://nca2023.globalchange.gov/chapter/15/> (role: technical contributor)



- [9] National Academies of Sciences, Engineering, and Medicine. 2019. Building and Measuring Community Resilience. Washington, D.C.: National Academies Press. (Committee Member)
<https://www.nap.edu/catalog/25383/building-and-measuring-community-resilience-actions-for-communities-and-the>
- [8] Gall, M. 2019. Loss reduction and sustainability. In: From Disaster to Catastrophe: U.S. Emergency Management in the 21st Century, edited by C. Rubin and S.L. Cutter. New York, NY: Routledge: 209-232.
- [7] Gall, M. and S. L. Cutter. 2019. 2005 Events and Outcomes: Beyond Hurricane Katrina. In: Emergency Management: The American Experience (3rd ed.), edited by C. B. Rubin. Fairfax, VA: CRC, 191-217.
- [6] Gall, M. 2017. Direct and Insured Flood Damage in the United States. In: Flood Damage Survey and Assessment: New Insights from Research and Practice, edited by D. Molinari, S. Menoni, and F. Ballio. American Geophysical Union and Wiley: Washington, DC: 53-64.
- [5] Gall, M. and B. Gerber. 2014. Hazard Mitigation, Economic Development, and Disaster Resiliency: A Comparative Analysis of Flood Control Policy and Practice in Germany, the Netherlands, and Great Britain. In: *Disasters & Development: Examining Global Issues and Cases*, edited by N. Kapucu and K. T. Liou. New York, NY: Springer, 213-234.
- [4] Gall, M. and S. L. Cutter. 2012. 2005 Events and Outcomes: Beyond Hurricane Katrina. In: *Emergency Management: The American Experience 1900-2010 (2nd ed.)*, edited by C. B. Rubin. Fairfax, VA: Public Entity Risk Institute (PERI), 191-212. (2008 Book Prize by the American Society for Public Administration, Section on Environment and Natural Resources Administration/SENRA)
- [3] Gall, M. 2011. Social Dynamics of Unnatural Disasters: Parallels between Hurricane Katrina and the 2003 European Heat Wave. In *Dynamics of Disaster: Lessons on Risk, Response, and Recovery*, edited by R. A. Dowty and B. Allen, London: Earthscan, 159-172.
- [2] Cutter, S. L., M. Gall^{PD}, and C. T. Emrich. 2008. Toward a comprehensive loss inventory of weather and climate hazards. In *Climate Extremes and Society*, edited by H. F. Díaz and R. J. Murnane. Cambridge: Cambridge University Press, 279-295.
- [1] Contributing author to Peterson, T. C., D. M. Anderson, S. J. Cohen, M. Cortez-Vázquez, R. J. Murnane, C. Parmesan, D. Phillips, R. S. Pulwarty, and J. M. R. Stone. 2008. Why Weather and Climate Extremes Matter. In *Weather and Climate Extremes in a Changing Climate, Regions of Focus: North America, Hawaii, Caribbean, and U.S. Pacific Islands*, edited by T. R. Karl, G. A. Meehl, C. D. Miller, S. J. Hassol, A. M. Waple, and W. L. Murray. Washington, DC: U.S. Climate Change Science Program and the Subcommittee on Global Change Research, 11:34. Available at
<http://www.climatechange.gov/Library/sap/sap3-3/final-report/default.htm>.

Commissioned Publications

- [19] Gall, M. and M. Aquilino. 2023. Design for Resilience Guide and Workbook. U.S. Department of Housing and Urban Development. Phoenix, AZ: ASU Center for Emergency Management and homeland Security.
- [18] Smith-Heisters, S., M. Aquilino, S. Yu^G, M. Gall, E. Bienenstock, and M. Temes^G. 2023. USAID Disaster Response Review: 2010-2020. Chicago, IL: Research Technical Assistance Center.
- [17] Studio Ma, Arizona State University, and U.S. Department of State. 2022. Global Futures Projects for Embassy 2050. Washington, DC: U.S. Department of State.
- [16] Jacobs^G, D., T. Bao, M. Gall, and P. Jevtić. 2022. Cybersecurity meta-analysis: investigation of cybersecurity assessments for USAID beneficiaries. Chicago, IL: Research Technical Assistance Center.
- [15] Central Midlands Council of Government. 2021. An all-natural hazard risk assessment and hazard mitigation plan for the Central Midlands Region of South Carolina. For the use by municipalities and jurisdictions of Fairfield, Lexington, Newberry, and Richland Counties.
- [14] Cutter, S. L., C. T. Emrich, M. Gall, S. Harrison, R. McCaster, S. Derakhshan^G, and E. Pham^G. 2019. [Existing Longitudinal Data and Systems for Measuring the Human Dimensions of Resilience, Health, and Well-Being in the Gulf Coast](#). Washington, D.C.: Gulf Research Program (NASEM).



- [13] Campbell, N., L. Ritchie, **M. Gall**, and S. L. Cutter. 2019. Relief, Recovery, and Resilience Network Initiative Final Report. Feeding America/Margaret A. Cargill Philanthropies.
- [12] Campbell, N., L. Ritchie, **M. Gall**, and S. L. Cutter. 2019. Relief, Recovery, and Resilience Network Initiative Evaluation Findings Report 2: Cohort 2 Activities. Feeding America/Margaret A. Cargill Philanthropies. Available at <https://www.nationalacademies.org/cache/80ac/content/4885770000234289.pdf>
- [11] **Gall, M.**, N. Campbell, S. L. Cutter and L. Ritchie. 2017. Disaster Planning for Food Banks: Literature **ASU** Review. Chicago, IL: Feeding America. <https://arcg.is/0Knui5>
- [10] Central Midlands Council of Government. 2016. An all-natural hazard risk assessment and hazard mitigation plan for the Central Midlands Region of South Carolina. For the use by municipalities and jurisdictions of Fairfield, Lexington, Newberry, and Richland Counties. <http://centralmidlands.org/publications/free-documents.html>
- [9] **IRDR**. 2014. Peril Classification and Hazard Glossary (IRDR AIRDR Publication No. 1). Beijing, China: Integrated Research on Disaster Risk (IRDR). Available at https://www.irdrinternational.org/uploads/files/2020/08/sxztCDwe0VzI4m6Ug3VLjkXSnh9vUAngozmPYAkp/IRDR_DATA-Project-Report-No.-1.pdf
- [8] **Gall, M.**, S. L. Cutter, and K. Nguyen^G. 2014. Incentives for Disaster Risk Management (IRDR AIRDR Publication No. 2). Beijing, China: Integrated Research on Disaster Risk (IRDR). DOI: 10.13140/2.1.3178.8325. Available at <http://www.irdrinternational.org/2015/01/28/airdr-report-no-2/>
- [7] **Gall, M.**, S. L. Cutter, and K. Nguyen^G. 2014. Governance in Disaster Risk Management (IRDR AIRDR Publication No. 3). Beijing, China: Integrated Research on Disaster Risk (IRDR). DOI: 10.13140/2.1.2130.2568. Available at <http://www.irdrinternational.org/2015/01/29/airdr-report-no-3>
- [6] **Gall, M.**, S. L. Cutter, and K. Nguyen^G. 2014. Transformative Development and Disaster Risk Management (IRDR AIRDR Publication No. 4). Beijing, China: Integrated Research on Disaster Risk (IRDR). DOI: 10.13140/2.1.1605.9682. Available at <http://www.irdrinternational.org/2015/01/30/airdr-report-no-4/>
- [5] **Gall, M.**, C. Friedland, T. A. Joyner^G, R. Orgera^G, C. Fu^G, and S. Ogea^G. 2013. Disaster Resistant University Multi-Hazard Mitigation Plan. Baton Rouge, LA: Louisiana State University System, 970 p. Available at http://dsm.lsu.edu/pr_hazmit.htm.
- [4] **Gall, M.** 2013. From Social Vulnerability to Resilience: Measuring Progress towards Disasters Risk Reduction. Intersections No. 13. Bonn: United Nations University Institute for Environment and Human Security (UNU-EHS). ISBN: 978-3-944535-00-5, 34 p. Available at <http://www.ehs.unu.edu/article/read/intersections>
- [3] **Gall, M.** and S. Kreft^{PP}. 2013. Measuring what matters? A suitability analysis of loss and damage databases for the climate change convention process. Bonn, Germany: Germanwatch, UNU-EHS, ICCCAD, MCII, and CDKN, 24 p. Available from <http://lossanddamage.net/4829>
- [2] Cutter, S. L., G. Melton^G, and **M. Gall**. 2008. Implementation of the social vulnerability index for Martin County, Florida: methods and results. Alexandria, VA: Marstel Day Consultants, Institute for Water Resources, U.S. Army Corps of Engineers 15 p.
- [1] **Gall^G, M.** and S. L. Cutter. 2007. Natural and human-induced disasters and other factors affecting future emergency response and hazards management: trends and outlook. Water Resources Outlook, 2007-WRO-R-04, 16 October 2007. Alexandria, VA: Institute for Water Resources, U.S. Army Corps of Engineers. 86 p. Available from <http://www.iwr.usace.army.mil/inside/products/pub/pubsearchAll.cfm?alpha=N>.



Other Publications

- [16] Lakhina^{PP}, S. J., **M. Gall**, and M. Sanders. 2023. Increasing national resilience through an OpenDisaster data initiative. Federation of American Scientists. June 8, <https://fas.org/publication/increasing-national-resilience-through-an-open-disaster-data-initiative/>
- [15] **Gall, M.** 2023. Why insurance companies are pulling out of California and Florida, and how to fix some of the underlying problems. *The Conversation*. June 7, <https://theconversation.com/why-insurance-companies-are-pulling-out-of-california-and-florida-and-how-to-fix-some-of-the-underlying-problems-207172>, Republished in [Yahoo News](#), [Mountain Journal](#), and elsewhere
Reach: 53,976 readers
- [14] Hale, M. and **M. Gall**. 2022. Foreword. In: *Creating Inclusive and Engaging Online Courses: A Teaching Guide*, M. Sanders (ed.). Northampton, MA: Elgar Publishing.
- [13] **Gall, M.**, C.T. Emrich, and M. Aquilino. 2022. Flood risk ratings: Translating risk to future costs helps homebuyers and renters grasp the odds. *The Conversation*. July 28, <https://theconversation.com/flood-risk-ratings-translating-risk-to-future-costs-helps-homebuyers-and-renters-grasp-the-odds-186798>
Reach: 10,466 readers
- [12] Gerber, B. and **M. Gall**. 2021. One month in, how Biden has changed disaster management and the US COVID-19 response. *The Conversation*. February 18, <https://theconversation.com/one-month-in-how-biden-has-changed-disaster-management-and-the-us-covid-19-response-155440>
Reach: 31,485 readers
- [11] Gerber, B. and **M. Gall**. 2018. Coal ash spill highlights key role of environmental regulations in disasters. **ASU** *The Conversation*. September 20, <https://theconversation.com/relaxed-environmental-regulations-heighten-risk-during-natural-disasters-103411>
Reach: 7,140 readers
- [10] **Gall, M.** and S. L. Cutter. 2016. Understanding Disaster Risk Through Loss Data. Input to Scoping report for and Open Risk Data and Modelling Report. Understanding Risk Network. <https://www.gfdrr.org/sites/default/files/solving-the-puzzle-contributions.pdf>
- [9] **Gall, M.**, C. T. Emrich and S. L. Cutter. 2015. Who Needs Loss Data? Background Paper for the Global Assessment Report on Disaster Risk Reduction 2015 (GAR15). Geneva, Switzerland: UNISDR. Available at <http://www.preventionweb.net/english/hyogo/gar/2015/en/bgdocs/University%20of%20South%20Carolina%202014.pdf>; excerpts included in GFDRR, 2014. Understanding Risk in an Evolving World: Emerging Best Practices in Natural Disaster Risk Assessment. Washington, D.C.: The World Bank, 224 p. Available at https://www.gfdrr.org/sites/gfdrr/files/publication/Understanding_Risk-Web_Version-rev_1.8.0.pdf
- [8] Guha-Sapir, D., R. Davis, **M. Gall**, P. Wallemacq, and S. L. Cutter. 2015. Exploring the potential of geocoding the impact of disasters: The experience of global and national databases. Geophysical Research Abstracts 17, EGU-2015-15109.
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- [4] **Gall^G, M.**, P. Zeil, S. Lang, T. Blaschke, F. Steinbruch^{CP}, and F. José^{CP}. 2002. Distribution of relief supplies to flood victims in Mozambique - can remote sensing effectively contribute to disaster management? *Proceedings of the 2nd Workshop of the EARSeL Special Interest Group*, September 18-20, 2002, Bonn (Germany), pp. 87-94.



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- [3] Steinbruch^{CP}, F., **M. Gall^G**, and F. José^{CP}. 2002. Remote Sensing and GIS for Documentation and Evaluation of the Socio-Economic and Environmental Impact of the 2000 Floods in Central Mozambique. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information*, Vol. XXXIV, Part 6/W6, pp. 59-65.
- [2] **Gall^G, M.** 2001. Geoinformation for rapid flood assessment and hazard mitigation in Central Mozambique (FLAME Mission II). Final Report, November 2001. Salzburg, Austria: University of Salzburg. Available at <http://www.zgis.at/projects/Flame/>.
- [1] **Gall^G, M.** 2000. Geoinformation for rapid flood assessment and hazard mitigation in Central Mozambique (FLAME Mission I). Final Report. Salzburg, Austria: University of Salzburg. Available at <http://www.zgis.at/projects/Flame/>.

Research Data and Interactive Web-based Publications (public facing only):

- CEMHS. 2025. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 23, available at <https://sheldus.org>. (in progress)
- [26] CEMHS. 2024. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 22, available at <https://sheldus.org>.
- [25] CEMHS. 2023. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 21, available at <https://sheldus.org>.
- [24] Emrich, C. et al. 2022. HazardAware, available at <https://www.hazardaware.org>
- [23] CEMHS. 2022. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 20, available at <https://sheldus.org>.
- [22] CEMHS (2020). *Situational Awareness Dashboard for the Arizona Voluntary Organizations Active in Disasters* (AZ VOAD), available at <https://arcg.is/0XeaWu0>
- [21] **Gall, M.** and N. Pinto^G. 2021. *Feed Your Community, Plan for Disasters*; a disaster preparedness planning tool for food banks funded by Feeding America, available at <https://arcg.is/0Knui5>
- [20] **Gall, M.** and N. Pinto^G. 2021. *HDxCC Project Dashboard*; a practitioner-student project exchange website funded by the Federal Emergency Management Agency, available at <https://arcg.is/GPuaT>
- [19] **Gall, M.** 2020. *COVID-19 Recovery Dashboard for Social Safety Net Services Coalition* (Coconino County, AZ), available at <https://arcg.is/1n8LHi>
- [18] Roseland, M., E. Castillo, **M. Gall**, and N. Pinto^G. 2020. Sustainable Maryvale: Using Community Capital to Localize the Sustainable Development Goals, available at <https://arcg.is/88iuq0>
- [17] CEMHS. 2020. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 19, available at <https://sheldus.org>.
- [16] CEMHS. 2019. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 18.1, available at <https://sheldus.org>.
- [15] CEMHS. 2018. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 17, available at <https://sheldus.org>.
- [14] CEMHS. 2018. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 16.1, **ASU** available at <https://sheldus.org>.
- [13] HVRI. 2017. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 16, available at <https://sheldus.org>.
- [12] HVRI. 2016. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 15.2, available at <https://sheldus.org>.
- [11] HVRI. 2016. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 15.1, available at <https://sheldus.org>.
- [10] HVRI. 2016. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 15, available at <https://sheldus.org>.
- [9] HVRI. 2015. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 14.1, available at <https://sheldus.org>.




- [8] HVRI. 2015. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 14, available at <https://sheldus.org>.
- [7] HVRI. 2014. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 13.1, available at <https://sheldus.org>.
- [6] HVRI. 2014. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 13, available at <https://sheldus.org>.
- [5] Gall, M. 2014. Exhibit “Explore the Economic and Human Impact of Natural Hazards In the United States” at Marian Koshland Science Museum, Washington D.C., March 2014 to present, available at <http://hvri.geog.sc.edu/sheldus/koshland/index.html>
- [4] HVRI. 2013. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 12, available at <https://sheldus.org>.
- [3] HVRI. 2009. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 7, available at <https://sheldus.org>.
- [2] HVRI. 2008. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 7, available at <https://sheldus.org>.
- [1] HVRI. 2007. Spatial Hazard Events and Losses Database for the United States (SHELDUS), Version 6.1, available at <https://sheldus.org>.

RESEARCH FUNDING

External Grants

2023-2024	<p>Margaret A. Cargill Foundation/Feeding America Strengthening Charitable Food System Capability for Effective Disaster Preparedness, Response and Recovery PI: Liesel Ritchie, Virginia Tech Co-PIs: Nnenia Campbell, Susan Cutter, and Melanie Gall Period of Grant: Jan. 2023—Dec. 2024, Amount: \$500,000, ASU portion: \$113,570</p>
2022-2024	<p>Society of Actuaries Leveraging machine learning and SHELDUS data to discern daily impact of disaster losses on mortgage-related investments PI: Antik Chakraborty co-PIs: Jianxi Su, Petar Jevtic, and Melanie Gall Period of Grant: Jun. 2022 – Dec. 2024; Amount: \$16,000</p>
2019-2024	<p>Gulf Research Program, National Academies of Sciences The New First Line of Defense: Building Community Resilience through Residential Risk Disclosure PI: Christopher Emrich, Univ. of Central Florida Co-PIs: Melanie Gall, Sergio Alvarez, Jacopo Baggio, Susan Cutter, Melissa Daigle, Monica Farris, Carol Friedland, Melanie Gall, Kelly Klima, Kristy Lewis, Natasha Mendoza, Michelle Miro, William O’Dell, Niki Pace, Colin Polsky, Benjamin Preston, Tamara Sheldon, Sonia Stephens, Thomas Wahl, and James Wilkins Period of Grant: Oct. 2019 – Sep. 2024, Amount: \$3,403,554, ASU portion: \$386,363</p>
2019-2023	<p>US Housing and Urban Development Cost-effectiveness Evaluation of HUD Community Development Block Grant-Disaster Recovery (CDBG-DR) Resilience Investments PI: Eric Tate, Univ. of Iowa Co-PI: Christopher Emrich, Carol Friedland, Melanie Gall, Aaron Strong Period of Grant: Oct. 2019 – Sep. 2023, Amount: \$850,000, ASU portion: \$158,524</p>
2022-2023	<p>DHS Criminal Investigations and Network Analysis Center (CINA)</p>



- Effects of Natural Disasters on Spatio-Temporal Patterns across Crime Types in the United States
 PI: Petar Jevtic
co-PI: Melanie Gall
 Period of Grant: Aug. 2022 – Jul. 2023; Amount: \$96,090
- 2021-2023 USAID
 Disaster Response Review 2010-2020
PI: Melanie Gall
 Co-PIs: Pamela DeLargy and Marie Aquilino, ASU
 Period of Grant: Sep. 2021 – Jul. 2023; Amount: \$179,888
- 2020-2023 Robert Wood Johnson Foundation
 Cool Kids, Cool Places, Cool Futures: Community-based, arts-enhanced, and youth-focused approach for equitable urban cooling and emergency management
 PI: Paul Coseo, ASU
 Co-PIs: Wanda Dalla Costa, Katja Brundiers, and Maria Jackson, ASU
Faculty participant
 Period of Grant: Nov. 2020 – Jun. 2023; Amount: \$109,995
- 2013-2023 National Science Foundation
 NRT: Citizen-Centered Smart Cities and Smart Living
 PI: Troy McDaniel, ASU
 Co-PI: Ram Pendyala, Cynthia Selin, and Ann McKenna, ASU
Faculty Participants: Gail-Joon Ahn, Ashish Amresh, Spring Berman, Diana Bowman, Scott Cloutier, Paul Coseo, Melanie Gall, Brian Gerber, Katina Michael, Thad Miller, Hermanth Venkateswara, and Lauren Withycombe Keller
 Period of Grant: Sep. 2018 – Aug. 2023, Amount: \$2,999,997
- 2021-2022 USAID
 Cybersecurity Meta-analysis
 PI: Youzhi (Tiffany) Bao, ASU
Co-PIs: Melanie Gall and Petar Jevtic
 Period of Grant: Sep. 2021 – Jun. 2022; Amount: \$59,655
- 2021-2022 Department of State
 Innovation for Security, Resilience and Sustainable Operations
 PI: Dave White, ASU
Co-PIs: Melanie Gall, Mounir el Asmar, Brian Gerber, Philip Horton, Mark Neveu, and David Sailor
 Period of Grant: Sep. 2021 – May 2022; Amount: \$515,489
- 2021-2022 High Street Consulting, LLC
 COVID-19 After-Action Report and Improvement Plan
PI: Melanie Gall
 Co-PI: Elisa Bienenstock, ASU
 Period of Grant: Oct 2021 – May 2022; Amount: \$84,075
- 2019-2022 Feeding America
 Research and Evaluation Services
 PI: Liesel Ritchie, Virginia Tech
Co-PIs: Nnenia Campbell, Susan Cutter, Melanie Gall, and Jamie Vickery
 Period of Grant: Dec. 2019 – Dec. 2022, Amount: \$220,000, ASU portion: \$35,000
- 2020-2021 Federal Emergency Management Agency
 FEMA Region IV Higher Education – Practice Collaboration Tool
PI: Melanie Gall




- 2020 Co-PI: Brian Gerber, ASU
 Period of Grant: Aug. 2020 – May 2021, Amount: \$3,000
 DOD-NAVY: Office of Naval Research (ONR)
 HellHives™ for ADAPT
 PI: Brian Gerber, ASU
Co-PIs: Spring Berman, Nancy Cooke, and Melanie Gall, ASU
- 2018-2019 Period of Grant: May – Sep. 2020, Amount: \$50,001
 Gulf Research Program, National Academies of Sciences
 Longitudinal Data and Systems for Measuring the Human Dimensions of Resilience,
 Health, and Well-Being in the Gulf Coast
 PI: Susan Cutter, Univ. of South Carolina
co-PIs: Melanie Gall, Christopher Emrich, and Sayward Harrison
- 2017-2018 Period of Grant: Aug. 2018 – May 2019, ASU portion: \$15,000
 Louisiana Governor’s Office of Homeland Security and Emergency Preparedness
 Multi-scale spatio-temporal evaluation of mitigation effectiveness in reducing natural
 hazard damage and loss
 PI: Carol Friedland, Louisiana State University
Co-PI: Melanie Gall, Robert Rohli, and T. Andrew Joyner
- 2017-2018 Period of Grant: Mar. 2015 – Feb. 2018, Amount: \$475,042 (ASU portion: \$185,054)
 Arup
 Uncertainty and Sensitivity Testing of the City Resilience Index Developed by Arup
PI: Melanie Gall
- 2016-2018 Period of Grant: Jul. 2017 – Apr. 2018, Amount: \$38,200
 Arizona Division of Emergency Management
 FY 2017 EMGP
 PI: Allen Clark, ASU
Co-PI: Melanie Gall
- 2015-2017 Period of Grant: Aug. 2016 – Jul. 2018, Amount: \$35,254
 South Carolina Emergency Management Division
 Improving Risk Assessment in Support of State Hazard Mitigation Planning
 PI: Christopher T. Emrich (transferred to Dr. Cutter in 2016), Univ of South Carolina
Co-PI: Melanie Gall, and Susan L. Cutter
- 2015-2017 **ASU** Period of Grant: Aug. 2016 – Jul. 2018, Amount: \$592,915
 National Oceanic and Atmospheric Administration (NOAA)
 Improving Drought Loss Accounting in the Spatial Hazard Events and Losses Database
 for the United States (SHELDUS)
 PI: Susan L. Cutter, Univ. of South Carolina
Co-PI: Melanie Gall and Christopher T. Emrich
- 2016 Period of Grant: Sep. 2015 – Aug. 2017, Amount: \$60,000
 Florida Department of Emergency Management (FDEM)
 Web-based Risk Assessment Planning Project for the State of Florida
 PI: Christopher T. Emrich, Univ. of South Carolina
Co-PI: Melanie Gall and Susan L. Cutter
- 2015-2016 Period of Grant: Jul. 2015 – Jun. 2016, Amount: \$177,872
 Central Midlands Council of Governments
 Risk Assessment as part of the 2016 Hazard Mitigation Plan
PI: Christopher T. Emrich and Melanie Gall, Univ. of South Carolina
- 2014 Period of Grant: Jan 2015-May 2016, Amount: \$43,000
 Imagery grant from the DigitalGlobe Foundation in support of the project Feasibility of
 Automated Hurricane Damage Detection using Object-Based Image Analysis (June



- 2015)
PI: Melanie Gall
- 2013-2014 United Nations Secretariat of the International Strategy for Disaster Reduction (UNISDR)
 State of the Science for the Global Assessment of Disaster Risk Management (GAR)
PI: Susan L. Cutter and Melanie Gall, Univ. of South Carolina
 Period of Grant: Jan. 2013 – Jun. 2014, Amount: \$46,978
- 2009-2010 National Oceanic and Atmospheric Administration (NOAA)
 2010 Census Update of the Enhancement of the Social Vulnerability Index (SOVI) for
 Use in Assessing Coastal Risk
PI: Christopher T. Emrich, Univ. of South Carolina
Co-PI: Melanie Gall
 Period of Grant: Aug. 2009 – Feb. 2010 Amount: \$50,000
- 2009-2013 Louisiana Governor’s Office of Homeland Security and Emergency Preparedness
 Disaster Resistant University – Multi-Hazard Mitigation Plan for the LSU System
PI: Melanie Gall, Louisiana State University
 Period of Grant: Sept. 2009 – Feb. 2013, Amount: \$680,214
- 2009-2012 National Science Foundation
 Managing Evacuee Ingress – Network Interactions and Community Hosting
 Performance
PI: Brian J. Gerber, Louisiana State University
Co-PI: Warren Eller, Melanie Gall and Scott Robinson
 Period of Grant: Sept. 2009 – Aug. 2012, Amount: \$320,048
- 2010-2012 Louisiana Sea Grant
 Changing flood mitigation: The Consequences of New Flood Insurance Rate Maps on
 Louisiana Coastal Communities
PI: Melanie Gall, Louisiana State University
 Co-PIs: M. Jude Egan, Rachel A. Dowty and Daniel Monchuk
 Period of Grant: Feb. 2010 – Jun. 2012, Amount: \$312,345
- 2010-2011 National Sea Grant College Program (NOAA)
 Enhancing Sea Grant’s Ability to Help Coastal Communities Adapt to Climate Change
PI: James G. Wilkins, Louisiana State University
Co-PI: Melissa Trosclair Daigle, Melanie Gall, and Charles A. Wilson
 Period of Grant: May 2010 – May 2011, Amount: \$29,999
- 2010 Louisiana Department of Health & Hospitals
 H1N1 Program Evaluation
PI: Melanie Gall, Louisiana State University
 Co-PI: Brian J. Gerber, Warren Eller
 Period of Grant: Jun. – Jul. 2010, Amount: \$110,567

Internal Grants Total: \$182,805

- 2024-2025 University of Central Florida & Arizona State University
 Building the Interdisciplinary Capacity to Explore Links Between Heat Hazard Losses,
 Power Outages, Extreme Events, and Social Vulnerabilities across the US
PI: Christopher Emrich
Co-PI: Melanie Gall, Thomas Wahl, Petar Jevtic
 Period of Grant: May 2024 – April 2025, Amount: \$40,397
- 2020-2021 Arizona State University, College of Health Solutions
 Understanding the impacts of COVID19 on opioid use disorder treatment: from
 organizational-level response to patient experiences
PI: Raminta Daniulaityte, Natasha Mendoza



- Co-PI:** Melanie Gall, Brad Doebbeling
 Period of Grant: June 2020 – June 2021, Amount: \$20,000
- 2020 Arizona State University, Institute for Social Science Research (ISSR)
 Sustainable Community Development Indicators and Digital Dashboard
PIs: Elizabeth Castillo, Mark Roseland, and Melanie Gall
 Period of Grant: May – August 2020, Amount: \$4,750
- 2020 Arizona State University, Knowledge Exchange for Resilience
 Gaining Awareness and Eligibility for Heat Mitigation through Federal Hazard
 Mitigation Grant Programs
PI: Melanie Gall
 Period of Grant: January – December 2020, Amount: \$15,000
- 2018 Arizona State University, Watts College
 Determinants of Disaster Mass Care Services Production and Impacts
 by Arizona Voluntary Nonprofit Organizations
PI: Melanie Gall
 Co-PI: Brian Gerber, Robert Ashcraft and James Herbert Williams
 Period of Grant: April – September 2018, Amount: \$50,000
- 2018 **ASU** Arizona State University, Institute for Social Science Research (ISSR)
 Determinants of Disaster Mass Care Services Production and Impacts
 by Arizona Voluntary Nonprofit Organizations
PI: Melanie Gall
 Co-PI: Brian Gerber
 Period of Grant: May-September 2018, Amount: \$7,987
- 2015-2016 University of South Carolina
Indirect Costs of School Closures during the 2015 Flash Floods
PI: Melanie Gall
 Co-PIs: Tamara Sheldon and Larianne Collins
 Period of Grant: Oct 2015 – May 2016, Amount: \$28,549
- 2015-2016 University of South Carolina
Leveraging Perishable Impact Data into Long-Term Recovery Forecasting
 PI: Christopher Emrich
Co-PI: Melanie Gall and Nathan Hunyh
 Period of Grant: Oct 2015 – May 2016, Amount: \$26,550
- 2015 University of South Carolina
*Feasibility of Automated Hurricane Damage Detection using Object-Based Image
 Analysis*
PI: Melanie Gall
 Period of Grant: Mar.– Aug. 2015, Amount: \$8,969
- 2011-2012 Coastal Sustainability Studio, Louisiana State University
Flood Depths, Building Codes, and Community Sustainability
 PI: Carol Friedland
Co-PI: Meredith Sattler, Melanie Gall, and Lynne Carter
 Period of Grant: Aug. 2011 – Aug. 2012, Amount: \$21,000

PRESENTATIONS

Co-authorship key (at time of presentation): ^{UG}undergraduate student, ^Ggraduate student, ^{PD}postdoctoral researcher, ^{CP}community partner, and ^{PP}public partner (government, NGO, industry).

- 2024 Gall, M. and E. Boyle^G. U.S. Disaster Normals. 2023 American Association of Geographers, Honolulu, HI, April 16-20, 2024.



- 2024 Gall, M. Disaster Risk Metrics. Cambridge Disaster Research Network. University of Cambridge, February 20. (virtual presentation)
- 2023 Santos^G, C. D., E. Boyle^G, M. Gall, and P. Jevtic. Effects of Natural Hazards on Spatio-Temporal Patterns Of Crime Types in the United States. Criminal Investigations and Network Analysis (CINA), George Mason University, Washington, D.C., December 5. (virtual presentation)
- 2023 Mostafiz, R., A. Al Assi^G, C. Friedland, A. Rahim^G, R. Rohli, C. Emrich, and M. Gall. Empowering Resilient Communities: The Flood Risk and Mitigation Calculator Tool for Informed Decision-Making. 2023 American Geophysical Union, San Francisco, CA, December 11-15, 2023.
- 2023 Al Assi^G, A., R. Mostafiz, C. Friedland, C. Emrich, and M. Gall. Wind Risk and Mitigation Calculator Framework for Determining the Wind Annualized Risk for Single- and Multi-Family Homes to Support Resilient Community Decision-Making. 2023 American Geophysical Union, San Francisco, CA, December 11-15, 2023. (poster)
- 2023 Ali^G, J., T. Wahl, A. Enriquez^{PD}, M. Rashid^G, M. Gall, and C. Emrich. Assessing Socio-economic Impacts of Compound Flooding for U.S. Coastal Communities. 2023 American Geophysical Union, San Francisco, CA, December 11-15, 2023.
- 2023 Gall, M., and C. Emrich. HazardAware: Democratizing Hazard, Risk, and Mitigation Information to Buy/Rent More Resilient Homes. CEP (Carbon and Energy Professionals) Conference and Exhibition Wellington, New Zealand, June 28. (virtual presentation)
- 2023 Helmrich, A., B. Gerber, M. Gall, and D. White. Developing Long-term Risk & Resilience Management Strategies for Large Portfolios. 30th International Symposium on Sustainable Systems and Technology – ISSST 2023, Fort Collins, CO, June 13-15.
- 2023 Boyle^G, E., M. Gall, and P. Jevtic. U.S. Disaster Normals. 20th Climate Prediction Application Science Workshop, Asheville, NC, May 9-11, 2023.
- 2023 Gall, M. Spatial Hazards & Environmental Loss Database for the U.S. (SHELDUS). USGS Risk Community of Practice, Webinar, April 20, 2023.
- 2023 Gall, M. Spatial Hazards & Environmental Loss Database for the U.S. (SHELDUS). 2023 Local Mitigation Plan Review Workshop, FEMA Region IX, Oakland, CA, January 24-26. (virtual presentation)
- 2022 Zhou, Y. C. Emrich, and M. Gall. [Spatiotemporal variations of damaging thunderstorm-related hazards over the contiguous United States](#). 2022 American Geophysical Union Fall Meeting, Chicago, IL, December 12-16.
- 2022 Emrich, C, C. Friedland, M. Gall and C. Polsky. [The New First Line of Defense: Building Community Resilience through Residential Risk Disclosure](#). Thriving Communities Webinar, National Academies of Sciences Gulf Research Program, Webinar, December 6.
- 2022 Gall, M., C. Friedland, C. Emrich, S. Cutter, K. Lewis, S. Stephens, and T. Wahl. [HazardAware: Democratizing Hazard, Risk, and Mitigation Information to Buy/Rent More Resilient Homes](#). Friday Forum. Institute for Catastrophic Loss Reduction [Canada], Webinar, October 21.
- 2022 Gall, M. The Spatial Hazard Events and Losses Database for the United States. 24th Annual FEMA Higher-Ed Symposium, Emmitsburg, MD, June 6-9.
- 2022 Gall, M., C. Emrich, S. Cutter, C. Friedland, K. Lewis, S. Stephens, and T. Wahl. HazardAware: Democratizing Hazard, Risk, and Mitigation Information to Build More Resilient Homes. 24th Annual FEMA Higher-Ed Symposium, Emmitsburg, MD, June 6-9.
- 2022 Gall, M., C. Friedland, and P. Li^G. [The need for strategic hazard mitigation planning](#). 43rd Annual Meeting of the Association for Public Policy Analysis and Management (APPAM), Austin, TX, March 27-29.
- 2021 Gall, M. *The value of estimating severe weather impacts*. [18th Annual Climate Prediction Applications Science Workshop](#). Phoenix, AZ, April 20, 2021 (virtual, postponed in 2020 due to pandemic).
- 2021 Gall, M. *Disaster geography and emergency management*. Spring 2021 Colloquium Series. School of Geographical Sciences and Urban Planning, Arizona State University, Tempe, AZ, April 5



- 2020 Williamson^{PD}, S., M. Gall, and C. Foard. [County-level approaches to coastal Resilience: Trends, costs, and the importance of community wide efforts](#). National Association of Counties (NACo), September 16, 2020 (webinar)
- 2020 Gerber, B. and M. Gall. The COVID-19 pandemic from a disaster management perspective: current issues and future implications. ASU Watts College, Spotlight Lecture, April 21, 2020.
- 2020 Gall, M. and B. Gerber. Responding to a pandemic. Devils in the Details. <https://youtu.be/ldL8O9FLtTE>
- 2020 Wahl, T. et al. Why location matters: how smarter decision-making by renters and homebuyers will increase coastal resilience. Ocean Sciences Meeting, San Diego, CA February 16-21, 2020.
- 2019 Gerber, B., and M. Gall. *The Evolution of Emergency Management Policy and Practice in the United States: Key Factors in Performance Improvement*. PizzaSeminar, BIGS (Brandenburgisches Institut für Gesellschaft und Sicherheit), Berlin, Germany, September 27, 2019.
- 2019 *State of the Art in Hazards Management* (Keynote). Curriculum Development Workshop, NSF Natural Hazards Preparedness and Mitigation (HazPM), Phoenix, AZ, May 13, 2019.
- 2019 Mostafiz^G, R. B., C. J. Friedland, R. V. Rohli, M. Gall, J. M. Gilliland^G. *Assessing Risk of Atmospheric Natural Hazards at the Census Block Level*. 115th Annual Conference of American Association of Geographers, Washington, DC, April 5, 2019.
- 2018 Gall, M. *SHELDUS Briefing*. Pima County Multi-Jurisdictional Hazard Mitigation Stakeholder Workshop, October 11, Tucson, AZ.
- 2018 Gall, M. *SHELDUS Briefing*. Sub-Committee on Disaster Reduction (National Science and Technology Council Committee on Environment, Natural Resources, and Sustainability), November 1, Webinar.
- 2017 Gall, M. *Disasters and Vulnerability*. Mandela Washington Fellowship, July 27, 2017, Phoenix, AZ.
- 2017 Gall, M. *Data integration and challenges: what is needed for effective communication to stakeholders*. **ASU** NAS/Gulf Research Program Opportunity Analysis Meeting on Tracking Community Resilience, February 15-16, Washington, DC.
- 2016 Sheldon, T., M. Gall, and L. Collins. *Disaster response, public safety, and community: The hidden costs of school closures*. SC Flood Conference, November 18, Columbia, SC.
- 2016 Gall, M. Keynote Lecture at GI_Forum Special Session on *Integrated Disaster Risk Research: Challenges and Benefits*, AGIT 2016, July, Salzburg, Austria.
- 2016 Gall, M. *Disaster Loss Data in the United States. Risk Information Management, Risk Models, and Applications* (RIMMA2016 organized by CODATA Germany), June 27-29, Berlin, Germany.
- 2016 Gall, M. *Implementing IRDR's Peril Classification in SHELDUS*. NOAA's 14th Annual Climate Prediction Applications Science Workshop, March 23, Burlington, VT.
- 2015 Gall, M. *Flood Insurance in Coastal Louisiana: Savior or Villain?* Temple University, November 2, Philadelphia, PA.
- 2015 Guha-Sapir, D., R. Davis, M. Gall, P. Wallemaq, and S. L. Cutter. *Exploring the potential of geocoding the impact of disasters: The experience of global and national databases*, European Geosciences Union, April 12-17, Vienna, Austria.
- 2014 Gall, M. and S.L. Cutter. *SHELDUS*, EM-DAT Technical Advisory Group Meeting University, Washington D.C., December 8-10.
- 2014 Gall, M. *Hazard Mitigation Planning and the Use of HAZUS-MH in the United States*. UNIGIS online "u_Lectures", February 26, Salzburg, Austria.
- 2013 Gall, M. *Loss Data in the United States*. Workshop on International Disaster Loss Data Recording: Where are we going? European Commission, Directorate General for Humanitarian Aid and Civil Protection, November 15, Brussels, Belgium.
- 2013 Gall, M. *What are Hazard Mitigation Plans and How to Include Adaptation?* Natural Hazard Mitigation Association Practitioners Symposium, July 16-17, Broomfield, CO.
- 2013 Gall, M. *Advancing Disaster Resistant University Planning beyond the Basic Requirements*. Disaster Resistant University Workshop, Univ. of New Orleans, CHART, March 20-22, New Orleans, LA.



- 2013 Gall, M. *Disaster Losses are not as Explicit as Temperature Change*. United Nations University Technical Workshop, Perspectives on Loss and Damage: Society, Climate Change, and Decision-Making, February 25-27, Bonn, Germany.
- 2012 Gall, M. *NFIP Reform Suggestions from the Field*, 36th Annual Conference of the Association of State Floodplain Managers, May 20-26, San Antonio, TX.
- 2012 Gall, M. *Assessing the Effects of Evacuee Hosting on Local Service Provision*, 108th Annual Meeting of the Association of American Geographers, February 24-28, New York, NY.
- 2012 Gall, M. *Flood Insurance: Love it or hate it*. NOAA Social Coast Forum – Social Science for Coastal Decision Making, Feb. 15-16, Charleston, SC.
- 2011 Gall, M. *Animal welfare in post-earthquake Port-au-Prince, Haiti*, 36th Annual Hazards Research and Application Workshop, July 12, Broomfield, CO.
- 2011 Gall, M. *Dogs, Cats and GPS: Implementing an Animal Survey in Post-earthquake Port-au-Prince, Haiti*, 107th Ann. Mtg. of the Assoc. of Amer. Geogr., Apr. 12-16, Seattle, WA.
- 2011 Gall, M. *Research Collaborations with Voluntary Non-profits in Post-Disaster Environments*. Workshop Non-profit Leadership on Emergencies and Disasters: Understanding Governance Issues in Community Relief and Recovery Efforts University of Colorado, Mar. 9, Denver, CO.
- 2011 Gall, M. *Combining Hazard Mitigation Planning with Service-learning*, Disaster Resistant University Workshop, Univ. of New Orleans CHART, Feb. 16-18, New Orleans, LA.
- 2010 Gall, M. *Vulnerability Assessments: Are our methods good enough?* Spatial Assessment and Analysis of Vulnerability Workshop, Jul. 6-7, Salzburg, Austria.
- 2009 Liner, R., and M. Gall. *How GIS mapping can aid your Non-profit*. Louisiana Voluntary Organizations Active in Disaster (VOAD) Training Day, May 29, Lafayette, LA.
- 2009 Gall, M. *Coastal hazards & inland flood risk: non-structural controls*, Flood Protection and Ecosystem Restoration Conference, Jan. 22, Baton Rouge, LA.
- 2008 Melton^G, G., M. Gall^{PD}, J. T. Mitchell, and S. L. Cutter *Hurricane Katrina Storm Surge Delineation*, , National Conference on Geography Education, Oct. 9-12, Dearborn, MI.
- 2008 Gall, M^{PD}. *Is Vulnerability to Natural Hazards Measurable?* Department of Geography & Anthropology, Louisiana State University, Oct. 8, Baton Rouge, LA.
- 2007 Cutter, S. L. and M. Gall^G. *U.S. Hazardscape & Implications for the Corps: Trends and Implications*. Provocation Session of the U.S. Army Corps of Engineers, Oct. 9, Washington, D.C.
- 2007 Cutter, S. L. and M. Gall^G. *The Geography of Disaster Losses*. National Climatic Data Center, Jul. 17, Asheville, NC.
- 2007 Gall^G, M. *Social Vulnerability Indices to Natural Hazards*, 103rd Ann. Mtg. of the Assoc. of Amer. Geogr., Apr. 17-21, San Francisco, CA.
- 2006 Gall^G, M. *Social Vulnerability Indices: Theoretical exercises or invaluable assessment tools?* First Summer Academy on Social Vulnerability of UNU-EHS and MunichRe Foundation, Jul. 23-29, Munich, Germany.
The United Nation's Disaster Risk Index: A theoretical exercise or an invaluable vulnerability assessment tool? 102nd Ann. Mtg. of the Assoc. of Amer. Geogr., Mar. 7-11, 2006, Chicago, IL.
- 2005 Cutter, S. L., J. T. Mitchell, B. J. Boruff, C. T. Emrich^G, M. Gall^G, M. C. Schmidtlein^G, C. Burton^G, and G. Melton^G. *Predicted versus observed social vulnerability of coastal residents: Hurricane Katrina impacts in Mississippi and Alabama*. Department of Geography, University of South Carolina, Nov. 10, Columbia, SC.
- 2004 Gall^G, M. *Vulnerability Reduction in Mozambique: The unused Potential of Emergency Shelters*, 100th Ann. Mtg. of the Assoc. of Amer. Geogr., Mar. 14-19, Philadelphia, PA.
- 2003 Gall^G, M. *Modeling 100-year Flood Risks in South Carolina*, 28th Annual Hazards Research and Application Workshop, Jul. 13-16, Boulder, CO.
- 2003 Gall^G, M. *Evaluation of flood risks in two districts of the Búzi River Basin, Mozambique*, Vulnerability and Risk Assessments Workshop, Jun. 3-5, Piura (Peru), organized by Deutsche Gesellschaft fuer Technische Zusammenarbeit (GTZ).



- 2001 Gall^G, M. *Impactos das cheias 2000: Results of the Búzi River Basin*, Catholic University of Mozambique, Aug. 8, Beira, Mozambique.
- 2001 Gall^G, M. *Nach der Katastrophe ist vor der Katastrophe: GIS und Fernerkundung im Desastermanagement in Mosambik*, GIS Day 2001, Nov. 14, Salzburg, Austria.

TEACHING

COURSES

Arizona State University

PAF 261 Hazards and Risk Management (in-person)

PAF 360 Emergency Management I (new, in-person course)

PAF 553/CPP 511 Hazard Mitigation Planning (new online, solutions-based course)

PAF 559/CPP 570 GIS (Geographic Information Systems) for Hazards Analysis (new online course)



CPM 3.1 Risk Management (Certified Public Manager program)

[renumbering of courses from CPP to PAF occurred after the integration of the Master's in Emergency Management and Homeland Security from the College into the School of Public Affairs in AY 23/24]

CPP 510 Hazards Governance

CRD 590 Conference and Reading

HSD 598 The Politics and Ethics of the Smart City (new, co-taught course)

University of South Carolina

GEOG 330 The Geography of Disasters (new, online course)

GEOG 535 Hazard Analysis and Planning (new, flipped/service-learning course)

Clafin University (HBCU)

HSSC 391 Social Statistics

SOCI 399 Social Dynamics of Disasters (new course)

PLJS 399 Environmental Justice (new course)

Portland State University

PA 410/510 Earth Sciences for Emergency Managers (new course/flipped classroom)

Louisiana State University

DSM 2000 Hazards, Disaster, and the Environment (new, online course)

ENVS 4262 Environmental Hazards Analysis (new service-learning course)

STUDENT ADVISING

Arizona State University

2025 (exp.) Cody Delos Santos, Mathematics and Statistical Sciences, PhD committee member

2025 (exp.) Summer Cliff, Geospatial Sciences and Urban Planning, PhD committee member

2025 (exp.) Philip Gilbertson, Geospatial Sciences and Urban Planning, PhD committee member

2025 (exp.) Melanie Perez Herrera, Public Service and Public Policy with a concentration in Emergency Management and Homeland Security (BS), Honors contract

2024 Danielle Jacobs, Computation and Augmented Intelligence, PhD committee member

2023 Esther Boyle, Mathematics and Statistical Sciences, PhD committee member





- 2023 Peiyao Li, Community Resources and Development, PhD committee member
- 2022 Varun Chandra, Computer Science (BS), Honors thesis committee member
- 2021 Sabrina Scherzer, Geography, Norwegian University of Science and Technology (NTNU), PhD outside reader
- 2020 Adam Andresen, Sustainability, MS committee member
- 2018 Marena Sampson, Community Resources and Development, MS committee member

University of South Carolina

- 2020 Sahar Seyedeh Derakhshan, Geography, Univ. of South Carolina, PhD committee member
- 2015 Khai Hoan Nguyen, Geography, MS committee member

Louisiana State University

- 2014 Emily Powell, Geography, PhD committee member
- 2013 T. Andrew Joyner, Geography, PhD committee member
- 2012 Henrike Brecht, Geography, PhD committee member
- 2012 Chelsea Core, Geography, MS committee member
- 2012 Steven Ward, Geography, PhD committee member
- 2011 Katherine Bowers, Environmental Sciences, MS committee member
- 2010 Devyani Kar, Oceanography and Coastal Sciences, PhD committee member

**TEACHING
FUNDING**

Council on Social Work Education (Katherina A. Kendall Grant)



International Perspectives on Social Work Practice in Disaster Risk and Recovery
 PI: Lauri Goldkind
 co-PI: Melanie Gall and Caroline Schmitt
 Period of Grant: Oct 2023—Sep 2026, Amount: \$9,962

University of South Carolina

Hazards Analysis and Planning (GEOG535)—Distributed Learning Course Development Grant
 PI: Christopher T. Emrich
 Co-PI: Melanie Gall
 Period of Grant: May—August 2015, Amount: \$7,825

Department of Homeland Security

Disaster Science and Management Education Program in NDCIEM
 PI: Patrick Hesp
 Senior Personnel: Melanie Gall
 Period of Grant: Jun. 2009 – Aug. 2010, Amount: \$150,486

SERVICE

PROFESSIONAL ACTIVITIES & SERVICE

**SCIENTIFIC
COMMITTEES**



- 2017-present Committee Member, World Meteorological Organization HIWeather Project; Impacts, Vulnerability & Risk Task Team (IVR-TT) and Warning Value Chain Working Group (since November 2020)
- 2017-2019 Committee Member, Consensus Report on [Building and Measuring Community Resilience](#), National Academies of Sciences
- 2013-2016 ex officio Member, DATA working group, Integrated Research on Disaster Risk (IRDR)



2012-2014 Member, Hazard Mitigation and Climate Adaptation Committee, Natural Hazard Mitigation Association

**CONTRIBUTIONS
TO WORKSHOPS
AND MEETINGS**

- 2024 Host, Organizer, and Fundraiser, Fall Workshop of the Bill Anderson Fund. Tempe, AZ, October 13-15.
- 2024 Member and Panel Organizer, "From Risk to Resilience", [Risk and Resilience Symposium](#), Arizona State University, September 19.
- 2024 Participant and Data Provider; Disasters, Disparities, Demography, and Decisions (D4) Hack Week, University of Washington, September 9-13.
- 2024 Moderator and panel organizer, "HazardAware: Effective and Affordable Risk Management and Mitigation Solutions", 49th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO, July 17.
- 2023 Invited participant, Digital Procurement Roundtable, New America, which results in Brief ["Striking Balance between Public Procurement and Innovation."](#) Washington, DC, March 9.
- 2022 Host, Organizer, and Fundraiser, Fall Workshop of the Bill Anderson Fund. Tempe, AZ, October 12-14.
- 2022 Panelist, Session: [Frameworks for collaboration: communities and public universities](#). July 14, National Hazard Mitigation Association Practitioners Workshop, Broomfield, CO.
- 2021 Host and Organizer, [Fall Workshop](#) of the Bill Anderson Fund, October 14-16, virtual.
- 2020 Host and Organizer, [Fall Workshop](#) of the Bill Anderson Fund, October 15-17, virtual.
- 2019 Organizer, Speaker series on the intersection of emergency management and sustainability, ASU Julie Ann Wrigley Global Institute of Sustainability, Tempe, AZ.
- 2019 Panelist, Session: Indicators of Progress: Measuring Forward Movement Toward Disaster Risk Reduction. July 14-17, Natural Hazards Workshop, Broomfield, CO.
- 2018 Organizer, *The United States of Disaster Guestimates* (part of Hazards and Disasters Xchange Collaboratory Series), November 16, Tempe, AZ.
- 2018 Organizer, *How would Arizona respond to a natural disaster?* (part of Hazards and Disasters Xchange Collaboratory Series), October 18, Phoenix, AZ.
<https://asunow.asu.edu/20181018-arizona-impact-how-would-arizona-respond-natural-disaster>
- 2017 Panelist, Session: Keeping Count: Deaths, damage, and dollars lost from disasters. July **ASU** 9-12, Natural Hazards Workshop, Broomfield, CO.
- 2016 co-Organizer "INQUIMUS 2016: Spatial and temporal dynamics of risk and vulnerability", September 21-23, Salzburg, Austria.
- 2012 Organizer "Building a Resilient Louisiana: Hazard-Resistant Design and Construction" Workshop, May 15-16, Baton Rouge, LA.
- 2012 Facilitator, Munich Re Foundation Summer Academy "From Social Vulnerability to Resilience: Measuring Progress toward Disaster Risk Reduction", Hohenkammer, Germany.
- 2011 Reviewer for Spatial Assessment and Analysis of Vulnerability Workshop, July 4-6, University of Salzburg, Austria
- 2010 *Disasters in Review* panel member, 107th Ann. Mtg. of the Assoc. of Amer. Geogr., Apr. 12-16, Seattle, WA.
- 2010 Scientific committee member, Spatial Assessment and Analysis of Vulnerability Workshop, July 6-7, University of Salzburg, Austria.
- 2009 Panel moderator for the session "Non-Structural Controls" at the Flood Protection and Ecosystem Restoration Conference, January 22-23, Baton Rouge, LA.



	2008	Hurricane Gustav Evacuation & Shelter Hot Wash for Louisiana Governor’s Office of Homeland Security and Emergency Preparedness, November 13-14.
	2006	Participant in First Summer Academy on Social Vulnerability “Global Water Hotspots”, organized by UNU-EHS and MunichRe Foundation, July 23-29, Munich, Germany.
COMMUNITY SERVICE	2021-2020-	Member, Board of Directors, National Hazard Mitigation Association Non-Voting Representative, Board of Directors, Arizona Voluntary Organizations Active in Disasters; development and maintenance of AZ VOAD COVID-19 coordination and situational awareness dashboard
	2020-2023 and 2017-2018	Lead of ASU academic partnership with the Bill Anderson Fund Member, Planning Committee, State Hazard Mitigation Plan, Department of Emergency and Military Affairs (DEMA)
	2019-present	Chair, Membership Committee Member, Board of Directors (2019-2021) North American Alliance of Hazards and Disaster Research Institutes (NAAHDRI), Boulder, USA
	2018-	Reviewer, Gilbert F. White Thesis/Dissertation Award, Specialty Group “Hazards, Risks, and Disasters”, American Association of Geographer
	2020	Member, Advisory Board, Bill Anderson Fund Flagship at the University of Delaware
	2020	External center review for University of North Carolina at Charlotte
	2019	Member, Technical Advisory Group, Environmental Public Health Tracking Program, Arizona Department of Health Services
	2018	Development and Maintenance of web-based map for Florida VOADs (Hurricane Michael)
	2018	City Group Member (Phoenix), UREx Sustainability Research Network
	2018	GIS support for City of Phoenix, ESF#5, National Mass Care Exercise (May 21)
	2017	American Geophysical Union (AGU) OSPA Session Mentor
	2017	Development and Maintenance of web-based map for Florida VOADs (Hurricane Irma)
	2017	Social Vulnerability and Resilience Working Group, National Risk Index
	2016-2017	SESYNC Pursuit Project: Meta-Analysis of Climate Change Vulnerability
	ASU	Mapping Studies: Improving Methods and Map Outputs; PI: Alex de Sherbinin
	2010	Geospatial analysis support for the International Fund for Animal Welfare and Animal Relief Coalition in Haiti
	2008	GIS support during Hurricane Gustav for East Baton Rouge Parish EOC, September 1-4.
	2007	Beta-tester for HAZUS-MH MR3
UNIVERSITY/ DEPARTMENTAL SERVICE	2022-	Member; Undergraduate Committee, School of Public Affairs, Arizona State University
	2019-	Advisor; Emergency Management Student Association (EMSA), Arizona State University
	2023-2024	Member; Diversity, Equity, and Inclusion Committee, School of Public Affairs, Arizona State University
	2023	Member; Search Committee, School of Public Affairs, Arizona State University
	2023	Speaker; Faculty Development “Got a Grant? Now What do I do?”, Watts College, February 13, Arizona State University



ASU



- 2023  Doctoral Conference, Panel Member, Watts College, March 3, Arizona State University
- 2019-2022 Graduate College Interdisciplinary Enrichment Fellowship Review Member; Hiring Committee, Public Service Academy
Member; Hiring Committee, Emergency Management and Homeland Security Program
Member, GIS Task Force, Arizona State University
- 2021 Ad-Hoc Fixed-Term Personnel Committee, Watts College, Arizona State University
- 2021 Excellence in University Service Award, Watts College, Arizona State University
- 2020-2021 Member, strategic center review for ASU GIOSI, Arizona State University
- 2019-2020 Member, Search Committee for Associate Research Dean position, Watts College, Arizona State University
- 2018-2019 Member, Innovation Collaboratory, Next-Generation Learning Environments workstream, Arizona State University
- 2018 Exhibitor, Undergraduate Student Research Fair, College of Public Service & Community Solutions, Arizona State University
- 2018 Session Moderator, PhD Research Conference, College of Public Service & Community Solutions, Arizona State University
- 2017 Judge, Cybersecurity Student Challenge, Arizona State University
- 2017 Judge, Undergraduate Research Symposium, College of Public Service & Community Solutions, Arizona State University

Joined ASU


- 2016 ASPIRE proposal reviewer, University of South Carolina
- 2015-2016 Member, ad-hoc Senate Welfare Committee Non-Tenure Track Faculty, University of South Carolina
- 2015-2016 Member, Steering Committee of SC Floods Initiative by Vice President for Research
- 2009-2012 Louisiana Sea Grant EDEN delegate (Extension Disaster Education Network)
- 2010-2011 LSU Dept. of Geography & Anthropology speaker's committee

**PROPOSAL
REVIEWER
PAST 5 YEARS**



- Arizona Department of Emergency and Military Affairs (2017-2019, 2023, 2024)
- National Science Foundation (2010, 2012, 2014, 2020, 2023)
- U.S. Department of Homeland Security (2012, 2020, 2023)
- Mississippi-Alabama Sea Grant (2014-2022)
- UK Research and Innovation (2020)
- Washington Sea Grant (2019)
- National Academies of Sciences, Gulf Research Program (2019)
- European Commission Joint Programming Initiative on Cultural Heritage (2018)
- U.S. Department of Education (2011, 2013-2016)
- Wisconsin Sea Grant (2015)

EDITORSHIP

- Natural Hazards Review* (associate editor since 2021, guest editor from 2008-2020)
- Frontiers in Built Environment, special issue on "Enhancing Resilience in Complex Systems: Transdisciplinary and Systems Approaches to Sustainable Infrastructure and Urban Development" (2024)*
-  *Natural Hazards Review, special issue on "Applying Machine Learning to Improve Natural Hazards Prediction and Mitigation" (2023-2024)*



**MANUSCRIPTS
REVIEWED
(PAST 5 YEARS)**

Canadian Water Resources Journal (2022-2023)
Climate Change (2018, 2020, 2023)
Environmental Research: Climate (2023)
International Journal of Disaster Risk Reduction (2024)
Journal of Homeland Security and Emergency Management (2023)
Nature Communications (2022)
Papers in Applied Geography (2024)
Proceedings of the Natural Academies of Sciences (PNAS) Nexus (2022)
 *Sociological Spectrum (2022)*
Weather, Climate and Society (2018-2020, 2023)

Annals of the American Association of Geographers (2018-2019)
Area (2019)
Climate Risk Management (2018)
Computers, Environment, and Urban Systems (2015, 2018)
Environmental Research: Climate (2022)
Geosciences (2017-2020)
International Journal of Emergency Management (2021)
ISPRS International Journal of Geo-Information (2015, 2017, 2018)
Journal of Geography in Higher Education (2020-2021)
Nature Energy (2018, 2020)
Natural Hazards (2006-2020)
Natural Hazards and Earth Systems Sciences (2016-2020)
Natural Hazards Review (2004 to present)
Nature Sustainability (2018-2020)
Regional Environmental Change (2018)
Risk, Hazards and Crisis in Public Policy (2021)
Southeastern Geographer (2018)

BOOK REVIEWER

Taylor & Francis Group (2020)
 Routledge (2018)
 Oxford University Press (2017)
 Elsevier (2012)
 Earthscan Ltd. (2009)

FIELD WORK

2020	COVID-19 data and coordination support for Arizona Voluntary Organizations Active in Disasters (AZ VOAD)
2018	National Mass Care Exercise, Phoenix, AZ, May 21-24
2015-2016	Georeferenced videography of flash flood recovery, Columbia, SC
2013	Post-Sandy recovery surveys, New Jersey, Oct. 13-17
2011	Mississippi River flooding/Morganza Spillway surveys
2010-2011	Flood insurance surveys in 5 coastal Louisiana parishes
2010	Post-Earthquake Animal Survey with the International Fund for Animal Welfare, September 13-19, Port-au-Prince, Haiti
2005 – 2008	7 field trips for post-Katrina recovery surveys of Mississippi coast
2001	Flood impact assessment, June 11-18, Búzi River Basin, Mozambique

SECTION: PROFESSIONAL DEVELOPMENT

**PROFESSIONAL
CERTIFICATES
AND TRAINING**

Certified Floodplain Manager (CFM), Association of State Floodplain Managers (since 2012)
 Emergency Management Training:
 E172 HAZUS-MH for Floods, 2012



E296 Application of HAZUS-MH for Risk Assessment, 2012
 IS-22 Are you ready? An in-depth guide to citizen preparedness, 2010
 IS-42 Social Media in Emergency Management, 2013
 IS-100.a Introduction to the Incident Command System, 2008
 IS-200.a ICS for Single Resources and Initial Action Incidents, 2008
 IS-242.a Effective Communication, 2013
 IS-271.a Anticipating Hazardous Weather and Community Risk, 2013
 IS-328 Plan Review for Local Mitigation Plans, 2014
 IS-386 Introduction to Residential Coastal Construction, 2015
 IS-393.a Introduction to Hazard Mitigation, 2011
 IS-700 National Incident Management System, 2008
 IS-800.b Introduction to the National Response Framework, 2008
 IS-805 Emergency Support Function #5 – Emergency Management, 2008
 IS-922 GIS and Emergency Management, 2017
 MGT404 Sports and Special Events Incident Management, 2019

Academic Training:

Disability Resource Center AccessZone Training, Arizona State University, 2020
 Master Class for Online Teaching, Arizona State University, 2017
 Effective Online Instruction, University of South Carolina, 2014
 Service Learning, Louisiana State University, 2009

CONSULTING 3RNI Disaster Planning Evaluation for Feeding America (2017-2018)



TECHNICAL SKILLS Geospatial products: Esri ArcGIS desktop and ArcGIS Online
 Hazard and impact modeling software: HAZUS-MH, HEC-GeoHMS, SFM 3.3, FEMA BCA
 Statistical software: SPSS, SimLab, GeoDa, NAIAD
 Text analysis software: NVivo, Maxqda
 Programming languages: HTML
 Course management systems: Canvas, Blackboard, Moodle, and D2L
 Miscellaneous: Tableau, Overleaf/LaTeX
 Languages: English, German

MEMBERSHIPS & AFFILIATIONS American Association of Geographers (AAG)

American Geophysical Union (AGU)
 Arizona Association of Emergency Managers (AzEM, formerly AESA)
 Association for Public Policy Analysis & Management (APPAM)
 Association of State Floodplain Managers (ASFPM)
 Arbeitskreis Naturgefahren und Naturrisiken (Deutsche Gesellschaft für Geographie)
 Global Alliance of Disaster Research Institutes (GADRI)
 National Hazard Mitigation Association (NHMA)
 North American Alliance of Hazards and Disaster Research Institutes (NAAHDRI)
 Society for Risk Analysis

MEDIA ENGAGEMENTS 2024 quoted by Doug Bailey in “Seeking answers for insurance crisis left in Milton, Helene’s wake”, Insurance Newsnet (e-news, October 11), <https://insurancenewsnet.com/innarticle/seeking-answers-for-insurance-crisis-left-in-milton-helenes-wake>
 featured on The Conversation’s “Extreme Weather and Rising Insurance Costs” (webinar, October 9)
 interviewed by Anna Phillips, Washington Post (October 4)
 interviewed by Marshall Terrill, ASU News (October 3), <https://news.asu.edu/20241003-environment-and-sustainability-lessons-helene-asu-professors-explain-complexities-behind>



- interviewed by Elizabeth Miller on background, Climate Central (May 23)
- interviewed by Harry Stevens on background, Washington Post (May 10)
- interviewed and quoted by Susanne Wedlich „Der Bereich Katastrophenschäden ist ein Kerngeschäftsfeld für uns – und ein Wachstumsmarkt!“ [The area of catastrophe damage is a core business area for us – and a growth market!] (online, January 9),
<https://www.riffreporter.de/de/umwelt/rueckversicherung-und-immer-hoehere-klimaschaeden-durch-naturkatastrophen>
- 2023 featured on Bloomberg’s Odd Lots (Joe Weisenthal and Tracy Alloway), (podcast, September 8)
- interviewed by Charlie Shield on climate risk, insurance, and adaptation, featured on Living Planet, DW Deutsche Welle (audio story, September 8),
<https://beta.prx.org/stories/487696>
- Interviewed by Mary Mays on background, Weather & Radar (August 25)
- interviewed by John Hintze on background, Risk & Analysis (print, June 29),
- interviewed by Adrian Ma on NPR’s The Indicator from Planet Money “When Insurers Can’t Get Insurance”, (podcast, June 22), <https://www.npr.org/2023/06/22/1183854206/when-insurers-cant-get-insurance>
- interviewed by Sophie Quinton on background, Pluribus News, for “Calif. legislators consider ‘catastrophe modeling’ to address insurance crisis” (print, June 16),
<https://pluribusnews.com/news-and-events/calif-legislators-consider-catastrophe-modeling-to-address-insurance-crisis/>
- interviewed and quoted by Talib Visram, Fast Company, for “Florida’s property insurance is in crisis. And it’s not just about the hurricanes” (print, June 14),
<https://www.fastcompany.com/90907815/floridas-property-insurance-is-in-crisis-and-its-not-just-about-the-hurricanes>
- provided SHEL DUS data for visualization “Accounting for flood risk would lower American house prices by \$187bn”, The Economist (print, April 25),
<https://www.economist.com/graphic-detail/2023/04/25/accounting-for-flood-risk-would-lower-american-house-prices-by-187bn>
-  interviewed and quoted by Jo Harper, Deutsche Welle, for “Turkey earthquake: How are the true costs calculated?” (print, February 23),
<https://www.dw.com/en/turkey-earthquake-how-are-the-true-costs-calculated/a-64779533>; republished by [Taiwan News](#)
- 2020 interviewed for “Responding to a Pandemic” for Devils in the Details, Arizona State University News (video, May 22), <https://youtu.be/ldL8O9FLtTE>
- interviewed by Mary Beth Faller for ASU News “ASU creates tool to link nonprofit agencies during pandemic response” (online, May 8),
<https://news.asu.edu/20200508-arizona-impact-asu-creates-tool-link-nonprofit-agencies-during-pandemic-response>
- 2019 interviewed by Mary Beth Faller for ASU News “ASU professors to help Gulf Coast communities assess climate risks”, (December 13),
 <https://news.asu.edu/20191213-solutions-asu-professors-help-gulf-coast-communities-assess-climate-risks>
- 2015 interviewed and quoted by Phil McKenna, Inside Climate News, for “500-year floods coming to New York every 24 years, study says” (print, September 28),
<https://insideclimatenews.org/news/28092015/new-york-epic-floods-climate-change-hurricanes/>
- interviewed and quoted by Lisa Song, Inside Climate News, for “Most extreme weather has climate change link, study says” (print, June 23),

- <https://insideclimatenews.org/news/23062015/most-extreme-weather-has-climate-change-link-study-says-global-warming-trenberth-ncar-sea-levels/>
- 2011 interviewed by Brandon Richards, KPLC-TV, for “LSU study to look at impact of flood insurance in SWLA” (TV, February 20),
<https://www.kplctv.com/story/14065675/l-su-students-look-at-impact-of-flood-insurance-in-swla/>

