

MELANIE GALL, PH.D., CFM

Center for Emergency Management and Homeland Security Program, College of Public Service and Community Solutions
 Arizona State University
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AREAS OF SPECIALIZATION	Natural hazards and disasters Risk metrics and indices Vulnerability, resilience & adaptation Hazard mitigation planning	Disaster losses Environmental justice Applied GIS and remote sensing Flood risk management
EDUCATION	2007 Ph.D. University of South Carolina, Geography <i>"Indices of Social Vulnerability to Natural Hazards: A Comparative Evaluation"</i> Advisor: Susan L. Cutter	
	2002 M.S. University of Salzburg (Austria), Geography & Geoinformatics <i>"GIS and Multicriteria Decision Making in Disaster Management: The Identification of Flood Emergency Shelters in the Búzi and Save River Basin (Mozambique)"</i> Advisor: Josef Strobl	
	1999 B.S. University of Heidelberg (Germany), Geography	
	1998 ERASMUS Study Abroad, University of Bergen (Norway), Anthropology & Norwegian	
PROFESSIONAL HISTORY	2017-present	<i>Research/Clinical Professor (non-tenure track)</i> , co-Director, Center for Emergency Management & Homeland Security (CEMHS), Arizona State University
	2013-2016	<i>Research Assistant Professor (non-tenure track)</i> , Hazards & Vulnerability Research Institute, University of South Carolina
	2013-2014	<i>Program Faculty</i> , Emergency Management & Homeland Security Leadership Program, Portland State University
	2012-2013	<i>Visiting Assistant Professor</i> Department of History & Sociology, Claflin University
	2008-2013	<i>Assistant Professor – Research (non-tenure track)</i> 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	<i>Postdoctoral Fellow</i> Hazards & Vulnerability Research Institute, University of South Carolina
	2000/2001	<i>Junior Technical Expert</i> Centro da Investigação e Documentação para Desenvolvimento Integral (CIDDI-GIS), Catholic University of Mozambique at Beira
	1995-1997	<i>SICAD Technician</i> , Photogrammetrie München, Heidelberg (Germany)
ACADEMIC HONORS & AWARDS	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

PUBLICATIONS

Books

Gall, M., Gerber, B., Brundiers, K., and D. Hondula. Disaster Research Grand Challenges. World Scientific Publishing (under contracted, expected: June 2021)

Peer-reviewed Journal Publications

- Taghinezhad, A., C. Friedland, and **M. Gall** (in progress). Economic analysis of construction elevation vs. post-construction elevation, considering flood insurance and lifecycle flood loss analysis. *Journal of Architectural Engineering*.
- Gall, M.**, C. J. Friedland, and P. Li (in progress). Planned mitigation actions versus implemented mitigation actions. *Journal of Planning Education and Research*.
- Gall, M.** (in progress). The all-hazards approach is failing to mitigate all hazards. *Landscape and Urban Planning*.
- Gall, M.**, S. Nadkarny, and S. Gillhespy (in progress). Data Availability: a Chicken-and-Egg Problem for Resilience Composite Indicators. *Computer, Environment, and Urban Systems*.
- Gall, M.**, T. Sheldon, and L. Collins (under review). The economic impact of disaster-related school closures. *Risks, Hazards, and Crisis in Public Policy*.
- Mostafiz, R, C. J. Friedland, R. V. Rohli, and **M. Gall** (under review). Future Crop Risk Estimation Due to Weather Hazards at the Census Tract Level in Louisiana. *Weather and Climate Extremes*.
- 2021 Hu, Michael Dean Hu, Kaitlyn G. Lawrence, Melanie Gall, Christopher T Emrich, Mark R. Bodkin, W. Braxton Jackson, Nathaniel MacNeill, Richard K. Kwok, Lawrence S. Engel, and Dale P. Sandler. Natural Hazards and Mental Health among US Gulf Coast Residents. *Journal of Exposure Science and Environmental Epidemiology*.
- 2020 Mostafiz, R, C. J. Friedland, R. V. Rohli, **M. Gall**, N. Bushra and J. M. Gilliland. Census-Block-Level Property Risk Estimation Due to Extreme Cold Temperature, Hail, Lightning, and Tornadoes in Louisiana, U.S.A. *Frontiers in Earth Science*. doi: 10.3389/feart.2020.601624
- 2020 **Gall, M.** and Carol J. Friedland. 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)
- 2019 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. Climate change vulnerability mapping: a systematic review and recommendations for the future. *WIREs Climate Change*. <https://doi.org/10.1002/wcc.600>
- 2018 Cutter, S.L., Emrich, C.T., **M. Gall**, and R. Reeves. Flash flood risk and the paradox of urban development. *Natural Hazards Review* 19(1): online.
- 2015 Cutter, S. L. and **M. Gall**. Sendai Targets at Risk. *Nature Climate Change* 5(8): 707-709.
- 2015 **Gall, M.**, K. H. Nguyen, and S. L. Cutter. Integrated research on disaster risk: Is it really integrated? *International Journal of Disaster Risk Reduction* 12 (June): 255-267. DOI:10.1016/j.ijdr.2015.01.010.
- 2015 **Gall, M.** The Suitability of Disaster Loss Databases to Measure Loss and Damage from Climate Change. *International Journal of Global Warming* 8(2): 170-190.
- 2013 Robinson, S. E., Brian J. Gerber, W. S. Eller, and **M. Gall**. Emergency planning and disabled populations: assessing the FNSS approach. *International Journal of Mass Emergencies and Disasters* 31(2): 315-329.
- 2013 Robinson, S. E., W. S. Eller, **M. Gall**, and B. J. Gerber. The core and periphery of emergency management networks. *Public Management Review* 15(3): 344-362.
- 2012 Friedland, C. J. and **M. Gall**. True cost of hurricanes – case for a comprehensive understanding of multihazard building damage. *Leadership and Management in Engineering* 12(3): 134-146.

- 2012 Fielding, W. J., **M. Gall**, D. Green, and W. S. Eller. 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.
- 2011 **Gall, M.**, K. A. Borden, C. T. Emrich, and S. L. Cutter. The Unsustainable Trend of Natural Hazard Losses in the United States. *Sustainability* 3(11): 2157-2181 (DOI: 10.3390/su3112157).
- 2010 Melton, G., **M. Gall**, J. T. Mitchell, and S. L. Cutter. 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).
- 2009 **Gall, M.**, K. Borden, and S. L. Cutter. When do losses count? Six fallacies of loss data from natural hazards. *Bulletin of the American Meteorological Society* 90(6): 1-11.
- 2007 **Gall, M.**, B. J. Boruff, and S. L. Cutter. Assessing flood hazard zones in the absence of digital floodplain maps: a comparison of alternative approaches. *Natural Hazards Review* 8(1): 1-21.
- 2006 Cutter, S. L., C. T. Emrich, J. T. Mitchell, B. J. Boruff, **M. Gall**, M. Schmidlein, C. Burton, and G. Melton. The long road home: race, class, and recovery from Hurricane Katrina. *Environment* 48(2): 8-20.
- 2004 **Gall, M.** Where to go? Access to emergency shelters in Mozambique. *Disasters* 28(1): 82-97.
- 2001 **Gall, M.**, S. Lang, and P. Zeil. 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

- 2021 Gerber, B. J, C. Provost and **M. Gall** (forthcoming). 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.
- 2021 Cutter, S. L. and **M. Gall** (forthcoming). Hurricane Katrina: a failure of planning or planned failure? [in German] In *Naturrisiken und Sozialkatastrophen (2nd ed.)*, edited by C. Felgentreff and T. Glade. Heidelberg: Spektrum Akademischer Verlag.
- 2019 **Gall, M.** 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.
- 2019 **Gall, M.** and S. L. Cutter. 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.
- 2017 **Gall, M.** 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.
- 2014 **Gall, M.** and B. Gerber. 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.
- 2012 **Gall, M.** and S. L. Cutter. 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)
- 2011 **Gall, M.** 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.
- 2008 Cutter, S. L., **M. Gall**, and C. T. Emrich. 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.

Commissioned Publications

- 2019 Cutter, S. L., C. T. Emrich, **M. Gall**, S. Harrison, R. McCaster, S. Derakhshan, and E. Pham. [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).
- 2019 Campbell, N., L. Ritchie, **M. Gall**, and S. Cutter. Relief, Recovery, and Resilience Network Initiative Final Report. Feeding America/Margaret A. Cargill Philanthropies.
- 2019 Campbell, N., L. Ritchie, **M. Gall**, and S. Cutter. 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>
- 2017 **Gall, M.**, N. Campbell, S. Cutter and L. Ritchie. Disaster Planning for Food Banks: Literature Review. Chicago, IL: Feeding America
- 2014 **Gall, M.**, S. L. Cutter, and K. Nguyen. 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/>
- 2014 **Gall, M.**, S. L. Cutter, and K. Nguyen. 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>
- 2014 **Gall, M.**, S. L. Cutter, and K. Nguyen. 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/>
- 2013 **Gall, M.** 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>
- 2013 **Gall, M.** and S. Kreft. 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>
- 2008 Cutter, S. L., G. Melton, and **M. Gall**. 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.
- 2007 **Gall, M.** and S. L. Cutter. 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

- 2019 National Academies of Sciences, Engineering, and Medicine. 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>
- 2018 Gerber, B. and **M. Gall**. Coal ash spill highlights key role of environmental regulations in disasters. *The Conversation*. September 20, <https://theconversation.com/relaxed-environmental-regulations-heighten-risk-during-natural-disasters-103411>
- 2016 Central Midlands Council of Government. 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>

- 2016 **Gall, M.** and S. L. Cutter. Understanding Disaster Risk Through Loss Data. Input to Scoping report for and Open Risk Data and Modelling Report. Understanding Risk Network. <https://www.gfdr.org/sites/default/files/solving-the-puzzle-contributions.pdf>
- 2015 **Gall, M.**, C. T. Emrich and S. L. Cutter. 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.gfdr.org/sites/gfdr/files/publication/Understanding_Risk-Web_Version-rev_1.8.0.pdf
- 2015 Guha-Sapir, D., R. Davis, **M. Gall**, P. Wallemacq, and S. L. Cutter. Exploring the potential of geocoding the impact of disasters: The experience of global and national databases. Geophysical Research Abstracts 17, EGU-2015-15109.
- 2014 IRDR. Guide to the IRDR Assessment on Integrated Research on Disaster Risk, IRDR AIRDR Publication No. 1. Beijing, China: Integrated Research on Disaster Risk (IRDR). Available at <http://www.irdrinternational.org/>
- 2014 IRDR. Peril Classification and Hazard Glossary, IRDR DATA Publication No. 1. Beijing, China: Integrated Research on Disaster Risk (IRDR). Available at <http://www.irdrinternational.org/2014/03/28/irdr-peril-classification-and-hazard-glossary/>
- 2013 **Gall, M.**, C. Friedland, T. A. Joyner, R. Orgera, C. Fu, and S. Ogea. 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.
- 2011 W. Eller, D. Green and W. J. Fielding. Considering Animal Welfare: Implementing an Animal and Attitudinal Survey in Port-au-Prince, Haiti. *Monday Developments Magazine* 29 (1/1): 44-45.
- 2008 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. 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.climate-science.gov/Library/sap/sap3-3/final-report/default.htm>.
- 2002 **Gall, M.**, P. Zeil, S. Lang, T. Blaschke, F. Steinbruch, and F. José. 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.
- 2002 Steinbruch, F., **M. Gall**, and F. José. 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.
- 2001 **Gall, M.** 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/>.
- 2000 **Gall, M.** 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/>.

Other Creative Work

- 2020 COVID-19 Situational Awareness Dashboard for the Arizona Voluntary Organizations Active in Disasters (AZ VOAD), available at <https://arcg.is/0XeaWu0>

- 2020 COVID-19 Recovery Dashboard for Social Safety Net Services Coalition (Coconino County, AZ), available at <https://arcg.is/1n8LHi>
- 2020 Sustainable Maryvale: Using Community Capital to Localize the Sustainable Development Goals, (submitted to the [2020 ArcGIS StoryMaps Competition for Sustainable Development Goals](#) on 11/25/2020, winners to be announced in Feb 2021), available at <https://arcg.is/88iuq0>
- 2013-present, Spatial Hazard Events and Losses Database for the United States (SHELDUS) Version 19.0 (released November 20, 2020, Center for Emergency Management and Homeland Security, Arizona State University (formerly at University of South Carolina), available at <http://www.sheldus.org>
- 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>

RESEARCH FUNDING

External Grants Total: \$10,524,981

- 2020-2023 Robert Wood Johnson Foundation
 PI: Paul Coseo
 Co-PIs: Wanda Dalla Costa, Katja Brundiers, and Maria Jackson
 Cool Kids, Cool Places, Cool Futures: Community-based, arts-enhanced, and youth-focused approach for equitable urban cooling and emergency management
 Period of Grant: Nov. 2020- Jun 2023; Amount: \$109,995
- 2020-2021 Federal Emergency Management Agency
 FEMA Region IV Higher Education – Practice Collaboration Tool
 PIs: Melanie Gall and Brian Gerber
 Period of Grant: Aug. 2020 – May 2021, Amount: \$3,000
- 2020-2022 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-PI: 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: Jan. 2020 – Dec 2022, Amount: \$3,403,554, ASU portion: \$386,363
- 2020 DOD-NAVY: Office of Naval Research (ONR)
 HellHives™ for ADAPT
 PI: Brian Gerber
 Co-PIs: Spring Berman, Nancy Cooke, and Melanie Gall
 Period of Grant: May – Sep 2020, Amount: \$50,001
- 2019-2022 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. 2022, Amount: \$850,000, ASU portion: \$158,524
- 2019-2021 Feeding America
 Research and Evaluation Services
 PI: Liesel Ritchie, Oklahoma State University
Co-PI: Nnena Campbell, Susan Cutter, Melanie Gall, and Jamie Vickery
 Period of Grant: Dec. 2019—Jun. 2021, Amount: \$220,000, ASU portion: \$35,000

- 2013-2023 National Science Foundation
 NRT: Citizen-Centered Smart Cities and Smart Living
 PI: Sethuraman Panchanathan, Arizona State University
 Co-PI: Ram Pendyala, Cynthia Selin, Ann McKenna, and Troy McDaniel
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
- 2018-2019 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
Senior Personnel: Melanie Gall
 Period of Grant: Aug. 2018 – May 2019, ASU portion: \$15,000
- 2017-2018 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
 Period of Grant: Mar. 2015 – Feb. 2018, Amount: \$475,042 (ASU portion: \$185,054)
- 2017-2018 Arup
 Uncertainty and Sensitivity Testing of the City Resilience Index Developed by Arup
PI: Melanie Gall
 Period of Grant: Jul. 2017—Apr. 2018, Amount: \$38,200
- 2016-2018 Arizona Division of Emergency Management
 FY 2017 EMGP
 PI: Allen Clark, Arizona State University
Co-PI: Melanie Gall
 Period of Grant: Aug. —Jul. 2018, Amount: \$35,254
- 2015-2017 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
 Period of Grant: Aug. 2016 – Jul. 2018, Amount: \$592,915
- 2015-2016 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
 Period of Grant: Sep. 2015 – Aug. 2017, Amount: \$60,000
- 2016 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
 Period of Grant: Jul. 2015 – Jun. 2016, Amount: \$177,872
- 2015 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
 Period of Grant: Jan-May 2016, Amount: \$43,000

- 2014 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. – Jun. 2014, Amount: \$46,978
- 2009-2013 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. 2013 – Feb. 2014, Amount: \$50,000
- 2009-2012 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
- 2010-2012 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
- 2010-2011 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 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

- 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
- 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: January – December 2020, Amount: \$15,000
- 2018 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: April-September 2018, Amount: \$50,000
- 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: May-September 2018, Amount: \$7,987
- 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: \$28,549
- 2015 University of South Carolina
Feasibility of Automated Hurricane Damage Detection using Object-Based Image Analysis
 PI: Melanie Gall
 Period of Grant: Oct 2015 – May 2016, Amount: \$26,550
- 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

Teaching Grants

- 2015 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
- 2009-2010 Department of Homeland Security (Sub-award from Jackson State University)
 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

TEACHING

Arizona State University

CPP 510 Hazards Governance

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

CPP 560 Emergency Services Operations, Analysis, and Planning (co-taught, new online course)

CPP 570 Geographic Information Systems (GIS) and Analysis (new online course)

CRD 590 Conference and Reading

CPM 3.1 Risk Management (Certified Public Manager program) Jan 9, May 30, Nov 6

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

University of South Carolina

GEOG 330 The Geography of Disasters (new online course)

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

Clafin University

HSSC 391 Social Statistics

SOCI 399 Social Dynamics of Disasters (new course)

PLJS 399 Environmental Justice (new course)

**STUDENT
ADVISING**

Arizona State University

2022 Philip Gilbertson, Geospatial Sciences and Urban Planning,
PhD committee member

2022 Danielle Jacobs, Computer Sciences (PhD program), NRT mentee

2021 Sabrina Scherzer, Geography, Norwegian University of Science and Technology
(NTNU), PhD outside reader

2020 Sahar Seyedeh Derakhshan, Geography, Univ. of South Carolina,
PhD committee member (external)

2020 Adam Andresen, Sustainability, MS committee member

2018 Marena Sampson, Community Resources and Development, MS committee
member

University of South Carolina

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

PRESENTATIONS

- 2021 Gall, M. *The value of estimating severe weather impacts*. [18th Annual Climate Prediction Applications Science Workshop](#). Phoenix, AZ, April 20, 2021 (virtual, post-poned in 2020 due to pandemic).
- 2020 Williamson, 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 R. B., Friedland C. J., Rohli R. V., Gall M., Gilliland J. M. *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 *SHELDUS Briefing*. Pima County Multi-Jurisdictional Hazard Mitigation Stakeholder Workshop, October 11, Tucson, AZ.
- 2018 *SHELDUS Briefing*. Sub-Committee on Disaster Reduction (National Science and Technology Council Committee on Environment, Natural Resources, and Sustainability), November 1, Webinar.
- 2017 *Disasters and Vulnerability*. Mandela Washington Fellowship, July 27, 2017, Phoenix, AZ.
- 2017 *Data integration and challenges: what is needed for effective communication to stakeholders*. NAS/Gulf Research Program Opportunity Analysis Meeting on Tracking Community Resilience, February 15-16, Washington, DC.
- 2016 *Disaster response, public safety, and community: The hidden costs of school closures*. SC Flood Conference, November 18, Columbia, SC.
- 2016 Keynote Lecture at GI_Forum Special Session on *Integrated Disaster Risk Research: Challenges and Benefits*, AGIT 2016, July, Salzburg, Austria.
- 2016 *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 *Implementing IRDR's Peril Classification in SHELDUS*. NOAA's 14th Annual Climate Prediction Applications Science Workshop, March 23, Burlington, VT.
- 2015 *Flood Insurance in Coastal Louisiana: Savior or Villain?* Temple University, November 2, Philadelphia, PA.
- 2015 *Exploring the potential of geocoding the impact of disasters: The experience of global and national databases* presented by Debarati Guha-Sapir, European Geosciences Union, April 12-17, Vienna, Austria.
- 2014 *SHELDUS*, EM-DAT Technical Advisory Group Meeting University, Washington D.C., December 8-10.
- 2014 *Hazard Mitigation Planning and the Use of HAZUS-MH in the United States*. UNIGIS online "u_ Lectures", February 26, Salzburg, Austria.
- 2013 *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 *What are Hazard Mitigation Plans and How to Include Adaptation?* Natural Hazard Mitigation Association Practitioners Symposium, July 16-17, Broomfield, CO.
- 2013 *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 *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 *NFIP Reform Suggestions from the Field*, 36th Annual Conference of the Association of State Floodplain Managers, May 20-26, San Antonio, TX.
- 2012 *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 *Flood Insurance: Love it or hate it*. NOAA Social Coast Forum – Social Science for Coastal Decision Making, Feb. 15-16, Charleston, SC.
- 2011 *Animal welfare in post-earthquake Port-au-Prince, Haiti*, 36th Annual Hazards Research and Application Workshop, July 12, Broomfield, CO.
- 2011 *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 *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 *Combining Hazard Mitigation Planning with Service-learning*, Disaster Resistant University Workshop, Univ. of New Orleans CHART, Feb. 16-18, New Orleans, LA.
- 2010 *Vulnerability Assessments: Are our methods good enough?* Spatial Assessment and Analysis of Vulnerability Workshop, Jul. 6-7, Salzburg, Austria.
- 2009 *How GIS mapping can aid your Non-profit*, R. Liner and M. Gall, Louisiana Voluntary Organizations Active in Disaster (VOAD) Training Day, May 29, Lafayette, LA.
- 2009 *Coastal hazards & inland flood risk: non-structural controls*, Flood Protection and Ecosystem Restoration Conference, Jan. 22, Baton Rouge, LA.
- 2008 *Hurricane Katrina Storm Surge Delineation*, G. Melton, M. Gall, J. T. Mitchell, and S. L. Cutter, National Conference on Geography Education, Oct. 9-12, Dearborn, MI.
- 2008 *Is Vulnerability to Natural Hazards Measurable?* Department of Geography & Anthropology, Louisiana State University, Oct. 8, Baton Rouge, LA.
- 2007 *U.S. Hazardscape & Implications for the Corps: Trends and Implications*, S. L. Cutter and M. Gall. Provocation Session of the U.S. Army Corps of Engineers, Oct. 9, Washington, D.C.
- 2007 *The Geography of Disaster Losses*, S. L. Cutter and M. Gall. National Climatic Data Center, Jul. 17, Asheville, NC.
- 2007 *Social Vulnerability Indices to Natural Hazards*, 103rd Ann. Mtg. of the Assoc. of Amer. Geogr., Apr. 17-21, San Francisco, CA.
- 2006 *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 *Predicted versus observed social vulnerability of coastal residents: Hurricane Katrina impacts in Mississippi and Alabama*. Cutter, S. L., J. T. Mitchell, B. J. Boruff, C. T. Emrich, M. Gall, M. C. Schmidlein, C. Burton, G. Melton. Department of Geography, University of South Carolina, Nov. 10, Columbia, SC.
- 2004 *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 *Modeling 100-year Flood Risks in South Carolina*, 28th Annual Hazards Research and Application Workshop, Jul. 13-16, Boulder, CO.
- 2003 *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 *Impactos das cheias 2000: Results of the Búzi River Basin*, Catholic University of Mozambique, Aug. 8, Beira, Mozambique.
- 2001 *Nach der Katastrophe ist vor der Katastrophe: GIS und Fernerkundung im Desastermanagement in Mosambik*, GIS Day 2001, Nov. 14, Salzburg, Austria.

PROFESSIONAL ACTIVITIES & SERVICE

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|------------------------------|--------------|---|
| SCIENTIFIC COMMITTEES | 2019-2021 | Member, Board of Directors, North American Alliance of Hazards and Disaster Research Institutes (NAAHDRl), Boulder, USA |
| | 2017-2019 | Committee Member, Building and Measuring Community Resilience , National Academies of Sciences |
| | 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) |
| | 2013-2016 | ex officio Member, DATA working group, Integrated Research on Disaster Risk (IRDOR) |
| | 2012-2014 | Member, Hazard Mitigation and Climate Adaptation Committee, Natural Hazard Mitigation Association |
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| CONTRIBUTIONS TO WORKSHOPS AND MEETINGS | 2020 | 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 | Panel Member, Session: Indicators of Progress: Measuring Forward Movement Toward Disaster Risk Reduction. July 14-17, Natural Hazards Workshop, Broomfield, CO. |
| | 2018 | Organizer, <i>The United States of Disaster Guestimates</i> (part of Hazards and Disasters Xchange Collaboratory Series), November 16, Tempe, AZ. |
| | 2018 | Organizer, <i>How would Arizona respond to a natural disaster?</i> (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 | Panel Member, Session: Keeping Count: Deaths, damage, and dollars lost from disasters. July 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 | <i>Disasters in Review</i> 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	2020-	Non-Voting Representative, Board of Directors, Arizona Voluntary Organizations Active in Disasters
		Development of AZ VOAD COVID-19 coordination and situational awareness dashboard
		Development of coordination dashboard for
	2020-	Lead of ASU academic partnership with the Bill Anderson Fund
	2020-	Founder, of Arizona Virtual Operations Support Team (Arizona VOST)
	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)
	2018-	Reviewer, Gilbert F. White Thesis/Dissertation Award, Specialty Group "Hazards, Risks, and Disasters", American Association of Geographer
	2017-2018,	Planning Committee, Arizona State Hazard Mitigation Plan
	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 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	2019-	Advisor, Emergency Management Student Association (EMSA)
		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
	2021	Excellence in University Service Award, Watts College
	2020-2021	Member, strategic center review for ASU GIOSI
	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
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		Arizona Department of Emergency and Military Affairs (2017-2019)
REVIEWER		National Science Foundation (2010, 2012, 2014, 2020)
PAST 5 YEARS		U.S. Department of Homeland Security (2012, 2020) U.S. Department of Education (2011, 2013-2016) European Commission Joint Programming Initiative on Cultural Heritage (2018) Mississippi-Alabama Sea Grant (2014-present) National Academies of Sciences, Gulf Research Program (2019) UK Research and Innovation (2020) Wisconsin Sea Grant (2015) Washington Sea Grant (2019)
MANUSCRIPTS		<i>Annals of the American Association of Geographers</i> (2018 to present)
REVIEWED		<i>Area</i> (2019)
PAST 5 YEARS		<i>Cartography & Geographic Information Science</i> (2008-2016) <i>Climate Risk Management</i> (2018) <i>Climate Change</i> (2018, 2020) <i>Computers, Environment, and Urban Systems</i> (2015, 2018) <i>Environmental Impact Assessment</i> (2015) <i>Environmental Monitoring and Assessment</i> (2012-2013) <i>Environmental Science & Policy</i> (2012, 2016) <i>Geosciences</i> (2017-present) <i>Global Environmental Change</i> (2009, 2016) <i>International Journal of Disaster Risk Reduction</i> (2012-2016) <i>International Journal of Health Geographics</i> (2015) <i>ISPRS International Journal of Geo-Information</i> (2015, 2017, 2018) <i>Journal of Cost Analysis and Parametrics</i> (2015) <i>Journal of Geography in Higher Education</i> (2020) <i>Landscape and Urban Planning</i> (2015) <i>Nature Energy</i> (2018, 2020) <i>Natural Hazards</i> (2006 to present) <i>Natural Hazards and Earth Systems Sciences</i> (2016-present) <i>Natural Hazards Review</i> (2004 to present, Guest Editor 2008 to present) <i>Nature Sustainability</i> (2018 to present) <i>PLOS Currents</i> (2016-2017) <i>Regional Environmental Change</i> (2018) <i>Risk Analysis</i> (2016) <i>Risk, Hazards and Crisis in Public Policy</i> (2021) <i>Southeastern Geographer</i> (2018) <i>Sustainability</i> (2015-2016) <i>The Professional Geographer</i> (2007-2016) <i>Transactions in GIS</i> (2015) <i>Weather, Climate and Society</i> (2018 to present)
BOOK REVIEWER		Routledge (2018) Oxford University Press (2017)

Elsevier (2012)
Earthscan Ltd. (2009)
Taylor & Francis Group (2020)

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

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: ERDAS Imagine, IDRISI, ArcGIS, Google Earth
Hazard and impact modeling software: HAZUS-MH, HEC-GeoHMS, SFM 3.3, FEMA BCA
Statistical software: SPSS, SimLab, GeoDa, NAIAD
Qualitative software: NVivo, Tableau
Programming languages: HTML
Course management systems: Canvas, Blackboard, Moodle, and D2L
Languages: English, German

MEMBERSHIPS & AFFILIATIONS Arizona Emergency Services Association
Association of American Geographers
Association of State Floodplain Managers
American Planning Association

Arbeitskreis Naturgefahren und Naturrisiken (Deutsche Gesellschaft für Geographie)
Global Alliance of Disaster Research Institutes (GADRI)
North American Alliance of Hazards and Disaster Research Institutes (NAAHDRI)
Society for Risk Analysis