

CURRICULUM VITAE

Elaina J. Sutley, Ph.D., P.E., F.SEI

Associate Dean for Impact and Belonging
Thomas and Eileen Washburn Scholar
Diane M. Darwin Chair's Council Associate Professor
Department of Civil, Architectural, and Environmental Engineering
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EDUCATION

- Ph.D., 2015** **Colorado State University – Fort Collins, CO**
Major: Civil Engineering, concentrating in Structural Engineering, with an emphasis on seismic retrofit of wood buildings and community resilience applications
- M.S., 2011** **University of Alabama – Tuscaloosa, AL**
Major: Civil Engineering, concentrating in Structural Engineering and Materials Science, with an emphasis on concrete infrastructure rehabilitation using advanced materials
- B.S., 2010** **University of Alabama – Tuscaloosa, AL**
Major: Civil Engineering, concentrating in Structural Engineering

PROFESSIONAL EXPERIENCE

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|---------------------|---|--|
| ▪ 12/2025 – Present | Diane M. Darwin Chair's Council Associate Professor | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 10/2025 – Present | Thomas and Eileen Washburn Scholar | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 11/2024 – Present | Associate Dean for Impact and Belonging | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 11/2024 – Present | Director, IHAWKe Impact and Belonging Program | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 07/2024 – Present | Director, Self Engineering Leadership Fellows Program | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 08/2021 – Present | Associate Professor | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 07/2021 – 10/2024 | Director, IHAWKe Diversity and Women's Program | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 07/2021 – 10/2024 | Associate Dean for Diversity, Equity, Inclusion and Belonging | University of Kansas
School of Engineering
Lawrence, KS |
| ▪ 08/2019 – 08/2021 | Chair's Council Assistant Professor | University of Kansas
School of Engineering |

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|---------------------|---|---|
| ▪ 08/2015 – 08/2019 | Assistant Professor | <i>Lawrence, KS</i>
University of Kansas
<i>School of Engineering</i>
<i>Lawrence, KS</i> |
| ▪ 05/2015 – 07/2015 | Post-Doctoral Researcher | Colorado State University
<i>Center for Risk-Based</i>
<i>Community Resilience Planning</i>
<i>Fort Collins, CO</i> |
| ▪ 01/2015 – 05/2015 | Lecturer | Colorado State University
<i>College of Engineering</i>
<i>Fort Collins, CO</i> |
| ▪ 08/2012 – 05/2015 | Graduate Research Assistant | Colorado State University
<i>College of Engineering</i>
<i>Fort Collins, CO</i> |
| ▪ 08/2010 – 07/2012 | Graduate Research and
Teaching Assistant | University of Alabama
<i>College of Engineering</i>
<i>Tuscaloosa, AL</i> |

PROFESSIONAL ORGANIZATIONS

- American Society of Civil Engineers (ASCE), Member since 2012
 - Technical Workshop Director, Developing a Roadmap and Resilience Priorities Workshop for ASCE, April 2026-Present
 - Sustainability Technical Committee, April 2021-April 2023
- Infrastructure Resilience Division (IRD) of ASCE
 - Executive Committee
 - Chair, October 2026-Present
 - Vice Chair and Chair-elect, October 2024-September 2026
 - Member, October 2023-Present
 - Appointed Young Professional Member, October 2021-September 2023
 - Vilas Mujumdar Resilience Award Committee, 2025
 - Alfredo Ang Award on Risk Analysis & Management of Civil Infrastructure Committee, 2025
 - Editorial Advisory Board Member, ASCE Journal of Infrastructure Systems, June 2019-May 2024
 - ASCE Natural Hazards Review
 - Editor-in-Chief, October 2026-Present
 - Early Career Editorial Board, October 2025-September 2026
 - Social Science, Policy, Economics, Education, Decision (SPEED) Committee, Infrastructure Resilience Division (IRD)
 - Co-Chair, October 2020-2025
 - Member since February 2017
 - Committee Member, Risk and Resilience Measurement Committee (RRMC), Infrastructure Resilience Division (IRD), February 2017-September 2020
 - Committee Member, Disaster Response and Recovery Committee (DDRC), Infrastructure Resilience Division (IRD), February 2017-September 2020
- Applied Technology Council (ATC)
 - Board of Direction, January 2024-Present
 - At-Large, Executive Committee, 2026-Present
 - Member, AI Committee, 2026-Present
 - Member, Communications Committee, 2025-Present
 - Co-Lead, Workforce Development Committee, 2025
 - Co-Lead, Diversity, Equity, and Inclusion Committee, 2024
 - Member, Climate Committee, 2024

- Structural Engineering Institute (SEI) of ASCE
 - Fellow since 2026, Member since 2012
 - President-Elect, Board of Governors, October 2026-September 2027
 - Young Professional Member, Board of Governors, October 2021-September 2025
 - BOG Liaison Member, Committee on Diversity, Equity, and Inclusion, December 2021-2023
 - Reorganization Working Group, 2023
 - BOG Liaison Member, Technical Community Executive Committee, 2023-2025
 - Equity Working Group Lead, 2024
 - Tellers Committee, 2024
 - SEI Fellows Review Committee, 2024
 - Joint Vision (SEI, NCSEA, CASE) Working Group, 2024-2025
 - Nominations and Elections Committee, 2025
 - Scholarship Awardee Mentor, 2025
 - Multi-Hazard Mitigation Committee,
 - Secretary, October 2021-September 2023
 - Member since October 2016
 - Wind Loads Subcommittee (WLSC), ASCE/SEI 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Codes and Standards Division
 - Vice Chair for Ch.27/28 Merger and Voting Member for 2028 edition, January 2023-July 2024
 - Balloteer and Voting Member for 2022 cycle, January 2018-July 2023
 - Design of Wood Structures Committee
 - Chair, October 2017-September 2021
 - 2018 Special Project Award (\$8,000), "Development of Technical Guidelines for Performance-Based Seismic Design of Mid-Rise Wood Buildings"
 - Member, October 2016-September 2021
 - Committee Member, Performance of Wood Structures Committee, October 2016-September 2021
- National Science Foundation (NSF) Natural Hazards Engineering Research Infrastructure (NHERI)
 - Advisory Board, NHERI DesignSafe-CI, August 2023-Present
 - Decadal Visioning Study Task Group, May 2023-November 2023
 - Advisory Council, NHERI Lehigh Experimental Facility, September 2021-Present
 - Advisory Board Member, Interdisciplinary Science and Engineering Extreme Events Reconnaissance (ISEER), November 2018-October 2019
 - Level 4 member, Structural Engineering Extreme Events Reconnaissance (StEER), Member, May 2019-Present
 - Advisory Committee Member, CONVERGE Data Publication, January 2019-June 2020
 - Chair, User Forum Committee, February 2019-May 2020; Secretary from February 2017-February 2019
- International Association for Multidisciplinary Resilience (IAMDR), Inaugural Member, May 2024-Present
- American Society of Engineering Education (ASEE), Member since 2016
- Earthquake Engineering Research Institute (EERI), Member since 2014
- National Association of Multicultural Engineering Program Advocates (NAMEPA), Member 2021-2024

- Editorial Board Member, Journal of Science and Technology in Civil Engineering, HUCE, September 2025-Present
- Editorial Board Member, International Journal of Mass Emergencies and Disasters, Sage Publishing, September 2025-Present
- Editorial Board Member, Journal of Resilient Cities and Structures, Elsevier, February 2025-Present
 - Guest Editor, Special Issue, “Resilient Communities in the Age of AI: Challenges and Opportunities”, November 2025-December 2026
- Frontiers in Built Environment, Urban Science,
 - Community Reviewer, June 2025-Present
 - Review Editor, January 2023-June 2025
- Guest Editor, Special Collection, “Long-term Lessons of Disasters”, Springer Nature Discover Hazards, March 2026-December 2026

HONORS AND AWARDS

- 2026 Fellow, Structural Engineering Institute, American Society of Civil Engineers
- 2025 National Laureate in Physical Sciences and Engineering, Blavatnik Award for Young Scientists, New York Academy of Sciences
- 2025-2026 Keith-Woodman Award, Department of Civil, Construction and Environmental Engineering, University of Alabama
- 2025 Thomas and Eileen Washburn Scholar, University of Kansas
- 2025 University Scholarly Achievement Award, University of Kansas
- 2024 Graduate School Centennial Scholar Award, University of Alabama
- 2024 School of Engineering Bellows Faculty Scholar Award, University of Kansas
- 2021 School of Engineering Miller Faculty Scholar Award, University of Kansas
- 2019 Early Career Research Fellow, Gulf Research Program, National Academies of Science, Engineering, and Medicine
- 2019 Faculty Early Career Development Program (CAREER) award, National Science Foundation
- 2016 American Society of Civil Engineering Excellence in Civil Engineering Education Fellow
- 2015 Civil Engineering Risk and Reliability Association Student Recognition Award
- 2011 Engineering Council of Birmingham Civil Engineering Graduate Student Engineer of the Year
- 2011 National Science Foundation Graduate Research Diversity Supplement Doctoral Fellow
- 2011 University of Alabama National Alumni Association Graduate Fellow
- 2011 Bibb Graves award for Outstanding Graduate Teaching Assistant
- 2010 Nell Vice Support Fund Scholarship
- Chi Epsilon Honor Society
- Order of the Engineer

PUBLICATIONS

Corresponding author underlined; * indicates student.

Peer-Reviewed Journal Papers

- Badmus*, A. and **Sutley, E.J.** (2026). "Lifecycle Benefit-Cost Analysis of Wood-frame Residential Buildings to Tornado Hazard." *ASCE Journal of Structural Engineering*, Accepted.
- Marquez*, P., **Sutley, E.J.**, Collins, W.N., Dao, T.N., Chowdhury, A.G., Zisis, I., and Elawady, A. (2026). "Experimental Characterization of Manufactured Home Roof-to-Wall Connections under Cyclic Loading: Implications for Wind Design." *ASCE Journal of Structural Engineering*, DOI: 10.1061/JSENDH/STENG-16390.
- Badmus*, A., Marquez*, P., **Sutley, E.J.**, Collins, W.N., Dao, T.N., Zisis, I., Elawady, A., and Chowdhury, A.G. (2026). "Light Frame Wood Sheathing-to-Rafter Connections: Experimental Capacity and Cyclic Behavior Analysis." Elsevier *Engineering Structures*, 366, Part B, DOI: 10.1016/j.engstruct.2026.123383.
- Appel*, E., Enderami, S.A., **Sutley, E.J.**, and Husic, A. (2026). Disproportionate Exposure to Extreme Floods in Historically Redlined U.S. Communities." *Nature Communications*, DOI: 10.1038/s41467-026-76024-2.
- Amini, K., Palit, T., Beck, A., Patil, J., Lu, T., Sen Gupta, H., Darestani, Y., Gonzalez, A., Cutler, H., Duenas-Osorio, L., Nofal, O., van de Lindt, J.W., Rosenheim, N., **Sutley, E.J.**, and Cha, E. (2026). "Integrated Decision-Support Framework for Enhancing Coastal Community Resilience Against Hurricane-Induced Hazards." Elsevier *International Journal of Disaster Risk Reduction*, 140(106136), DOI: 10.1016/j.ijdr.2026.106136.
- Rashid*, M.S. and **Sutley, E.J.** (2026). "Managed Retreat in the Face of Sea Level Rise: A Multi-Dimensional Framework for Climate Resilience." Elsevier *International Journal of Disaster Risk Reduction*, 132(105952), DOI: 10.1016/j.ijdr.2025.105952.
- Marquez*, P.J., **Sutley, E.J.**, Collins, W., and Dao, T. (2025). "Performance of Manufactured Home Anchorage Systems after Hurricane Michael." *ASCE Journal of Performance of Constructed Facilities*, 40(3), DOI: 10.1061/JPCFEV.CFENG-5309. Selected as *Editor's Choice*.
- Hoxey*, A., Taylor, M., Murphy, M., Bemis, S., Chamlagain, D., Styron, R., **Sutley, E.J.**, Adhikari*, B., Fan*, S., Daniel*, M., Curtiss*, E., Kafle*, M., Gosse*, J., and Rittenour*, T. (2025). "Dextral slip along the Western Nepal Fault System accommodates significant orogen-parallel shear." Geological Society of America *GSA Bulletin*, 137 (11-12), DOI: 10.1130/B37994.1.
- Graham*, M., Gelino, B., **Sutley, E.J.**, and Reed, D. (2025). "Behavioral economic analysis of framing effects on residential safe room demand." *ASCE Natural Hazards Review*, 27(1), DOI: 10.1061/NHREFO/NHENG-2461.
- Dao, T., Badmus*, A., **Sutley, E.J.**, Collins, W., Chowdhury, A., Zisis, I., Elawady, A., Oniyia*, V., and Do*, V. (2025). "A General Hysteresis Model for Applications in Structural Dynamics." *ASCE Journal of Structural Engineering*, 152(1): 04025238, DOI: 10.1061/JSENDH.STENG-14315. Selected as *Editor's Choice*.
- Mazumder, R.K. and **Sutley, E.J.** (2025). "Modeling the Influence of Social Vulnerability on Housing Functionality Restoration." *ASCE Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 11(4): DOI: 10.1061/AJRUA6.RUENG-1526.

- Badmus*, A. and **Sutley, E.J.** (2025). "State-of-the-Art Review on Reducing Residential Buildings' Risk to Tornado Hazards." *Frontiers in the Built Environment Wind Engineering and Science*, 11: 1543800, DOI: 10.3389/fbuil.2025.1543800.
- Nofal, O., Rosenheim, N., Kameshwar, S., Patil, J., Zhou, X., van de Lindt, J., Duenas-Orsorio, L., Cha, E., Enderami, S.A., **Sutley, E.J.**, Jeon, H., Lu, T., Cutler, H., and Wang, C. (2024). "Methodology for Interdependent Population-Buildings-Infrastructure Post-Hazard Functionality Assessment for Communities." *ASCE Journal of Structural Engineering*, 151(5): 04025048-1, DOI: 10.1061/JSENDH.STENG-13222.
- Mazumder, R.K. and **Sutley, E.J.** (2024). "A Multi-Step Framework for Measuring Post-Earthquake Recovery: Integrating Essential Infrastructure System's Serviceability in Building Functionality." Elsevier *International Journal of Disaster Risk Reduction*, 114: 104929, DOI: 10.1016/j.ijdr.2024.104929.
- Wang*, L., Van de Lindt, J., **Sutley, E.J.**, and Hamideh, S. (2024). "Interdependent Recovery Methodology for Residential Buildings and Household Housing in Community Resilience Modeling." *ASCE Open: Multidisciplinary Journal of Civil Engineering*, 2(1): 04024007, DOI: 10/1061/AOMJAH.AOENG-0022.
- Wu*, Y., Lyles, L.W., Overstreet*, K., and **Sutley, E.J.** (2024). "Planning for Adaptation? Examining the Planning Integration for Hazard Risk Reduction." *MDPI Sustainability*, 16(10): 3999, DOI: 10.3390/su16103999.
- Enderami, S.A., **Sutley, E.J.**, Helgeson, J., van de Lindt, J., Duenas-Orsorio, L., and Watson, M. (2024). "Measuring Post-Disaster Accessibility to Essential Goods and Services: Proximity, Availability, Adequacy, and Acceptability Dimensions." Springer *Nature Journal of Infrastructure Preservation and Resilience*, DOI: 10.1186/s43065-024-00104-0.
- Enderami, A. and **Sutley, E.J.** (2024). "Social Vulnerability Score: a Scalable Index for Representing Social Vulnerability in Virtual Community Resilience Testbeds." Springer *Natural Hazards*, DOI: 10.1007/s11069-024-06499-z.
- Nofal, O., Rosenheim, N., Kameshwar, S., Patil, J., Zhou, X., van de Lindt, J., Duenas-Orsorio, L., Cha, E., Enderami, S.A., **Sutley, E.J.**, Cutler, H., Lu, T., Wang, C., and Jeon, H. (2024). "Community-Level Post-Hazard Functionality Methodology for Buildings Exposed to Flooding." *Wiley Computer-Aided Civil and Infrastructure Resilience*, DOI: 10.1111/mice.13135.
- Ritchie, L., **Sutley, E.J.**, Gibb, C., Gill, D., Sibley*, M., Husain, J., and Hamilton, K. (2023). "And then COVID Happened': Impacts of the Pandemic on Hazard and Disaster Researchers." *ASCE Journal Natural Hazards Review*, 25(1), DOI: 10.1061/NHREFO.NHENG-1834.
- Lyles, L.W., Wu*, Y., Overstreet*, K., and **Sutley, E.J.** (2023). "Is Time on Our Side? A Longitudinal Analysis of the Quality of Mandated Plans." *SAGE Journal of Planning Education and Research*, 1-15, DOI: 10.1177/7039456X231197182.
- Mazumder, R.K., Enderami, S.A., Rosenheim, N., **Sutley, E.J.**, Stanley*, M., and Meyer, M. (2023). "Estimating Long-term Homeless K-12 Students after a Catastrophic Flood Disaster." Elsevier *Resilient Cities and Structures*, 2(2), 82-92, DOI: 10.1016/j.rcns.2023.07.005.
- van de Lindt, J.W., Kruse, J.K., Cox, D.T., Gardoni, P., Lee, J.S., Padgett, J., McAllister, T.P., Barbosa, A., Cutler, H., Van Zandt, S., Rosenheim, N., Navarro, C., **Sutley, E.J.**, and Hamideh, S. (2023). "The Interdependent Networked Community Resilience Modeling Environment (IN-CORE)." Elsevier *Resilience Cities and Structures*, 2(2), 57-66, DOI: 10.1016/j.rcns.2023.07.004.

- Nofal, O., Amini, K., Padgett, J.E., van de Lindt., J.W., Rosenheim, N., Darestani, Y.M., Enderami, S.A., **Sutley, E.J.**, Hamideh, S., Duenas Osorio, L. (2023). "Multi-Hazard Socio-Physical Resilience Assessment of Hurricane-Induced Hazards on Coastal Communities." Elsevier *Resilience Cities and Structures*, 2(2), 67-81, DOI: 10.1061/j.rcns.2023.07.003.
- Enderami, S.A., **Sutley, E.J.**, Mazumder, R.K., and Dumler*, M. (2023). "Virtual Testbeds for Community Resilience Analysis: Step-by-Step Development Procedure and Future Orientation." Elsevier *Resilience Cities and Structures*, 2(2), 42-56, DOI: 10.1016/j.rcns.2023.07.002.
- **Sutley, E.J.** and Lyles, L.W. (2023). "Theory of Change: Community Engagement as an Intervention to Create Disaster Resilience." *Frontiers of the Built Environment*, Special Collection Technology Transfer from the Natural Hazards Engineering Research Infrastructure (NHERI), 9, DOI: 10.3389/fbuil.2023.1172659.
- Mazumder, R.K., Enderami*, S.A., and **Sutley, E.J.** (2023). "A Novel Framework to Study Community-level Social and Physical Impacts of Hurricane-Induced Winds through Synthetic Scenario Analysis." *Frontiers of the Built Environment, Wind Engineering and Science*, 9, DOI: 10.3389/fbuil.2023.1005264.
- Tomiczek, T., Helgeson, J., **Sutley, E.J.**, Gu, D., Hamideh, S., and Crawford, S. (2023). "A Framework for Characterizing Uncertainty Factors in Postdisaster Structural Performance Assessment Data." *ASCE Journal Natural Hazards Review*, 24(1), 02522001, DOI: 10.1061/(ASCE)NH.1527-6996.0000604.
- Enderami*, S.A., Mazumder, R., Dumler*, M., and **Sutley, E.J.** (2022). "Virtual Testbeds for Community Resilience Analysis: State of the Art Review, Consensus Study, and Recommendations." *ASCE Journal Natural Hazards Review*, 23(4), 03122001, DOI: 10.1061/(ASCE)NH.1527-6996.0000582.
- Daniel*, L., **Sutley, E.J.**, Lequesne, R., Mazumder, R., Enderami*, A. (2022). "A Community Capitals Framework for Linking Buildings and Organizations for Enhancing Community Resilience through the Built Environment." *ASCE Journal of Infrastructures Systems*, 28(1), 04021053, DOI: 10.1061/(ASCE)IS.1943-555X.0000668.
- Crawford, P.S., Mittrani-Reiser, J., **Sutley, E.J.**, Do, T., Tomiczek, T., Nofal*, O., Weigand, J., Watson, M., van de Lindt, J.W., and Graettinger, A. (2022). "A measurement approach to develop flood-based damage fragilities for residential buildings following repeat inundation events." *ASCE Journal of Risk and Uncertainty Analysis: Part A: Civil Engineering*, 8(2), 04022019, DOI: 10.1061/AJRUA6.0001219.
- Field, C., **Sutley, E.J.**, Naderpajouh, N., van de Lindt, J., Butry, D., Keenan, J., Smith-Colin, J., and Koliou, M. (2022). "Incorporating Socio-economic Metrics in Civil Engineering Projects: The Resilience Perspective." *ASCE Journal Natural Hazards Review*, 23(1), 04021064, DOI: 10.1061/(ASCE)NH.1527-6996.0000537.
- Enderami*, S.A., **Sutley, E.J.**, and Hofmeyer*, S. (2021). "Defining Organizational Functionality for Evaluation of Post-Disaster Community Resilience." Taylor & Francis *Sustainable and Resilient Infrastructure*, 7(5), 1-18, DOI: 10.1080/23789689.2021.1980300.
- Kim*, J.H., and **Sutley, E.J.** (2021). "Implementation of Social Equity in an Engineering-Based Framework for Distributing Disaster Resources." Elsevier *International Journal of Disaster Risk Reduction*, 102485, DOI: 10.1016/j.idjrr.2021.102485.

- **Sutley, E.J.**, Kim*, J.H., Kirkham, W.J., and Lequesne, R. (2021) "Examining Tornado Vulnerability in Kansas with Recent Findings from an EF4 Tornado." *ASCE Journal Natural Hazards Review*, 22(3), DOI: 10.1061/(ASCE)NH.1527-6996.0000476.
- **Lakhina, S., Sutley, E.J.**, and Wilson, J. (2021). "How do we actually do convergence? For disaster resilience: Cases from Australia and the United States." *International Journal of Disaster Risk Reduction*, 12, 299-311, DOI: 10.1007/s13753-021-00340-y.
- **Sutley, E.J.**, and Hamideh, S. (2020). "Post-Disaster Housing Stages: A Markov Chain Approach to Model Sequences and Duration Based on Social Vulnerability." *Wiley Risk Analysis*, 40(12), 2675-2695, DOI: 10.1111/risa.13576.
- **Kim*, J.H.**, Moraveg*, M., **Sutley, E.J.**, Chowdhury, A., and Dao, T. (2020). "Observations and Analysis of Wind Pressures on the Floor Underside of Elevated Buildings." *Elsevier Engineering Structures*, 221, 111101, DOI: 10.1016/j.engstruct.2020.111101.
- Khosravi, M., Leon-Corwin*, M., Ritchie, L., Smallegan, S., Stark, N., Stephens, M., **Sutley, E.J.**, Athanasopoulos-Zekkos, A. (2020). "Measuring User Satisfaction for the Natural Hazards Engineering Research Infrastructure Consortium." *Frontiers of the Built Environment Special Collection on Natural Hazards Engineering Research Infrastructure (NHERI) 2016-2020: Mitigating the Impact of Natural Hazards on Civil Infrastructure and Communities*, 6(101), DOI: 10.3389/fbuil.2020.00101.
- Dellenbaugh*, L., Kong*, X., Al-Salih*, H., **Collins, W.**, Bennett, C., Li, J., and **Sutley, E.J.** (2020). "Development of Distortion-Induced Fatigue Crack Characterization Methodology using Digital Image Correlation." *ASCE Journal of Bridge Engineering*, 25(9), DOI: 10.1061/(ASCE)BE.1943-5592.0001598.
- **van de Lindt, J.W.**, Peacock, W.G., Mitrani-Reiser, J., Rosenheim, N., Deniz, D., Dillard, M., Tomiczek, V., Koliou, M., Graettinger, A., Crawford, S., Harrison, K., Barbosa, A., Tobin, J., Helgeson, J., Peek, L., Memari*, M., **Sutley, E.J.**, Hamideh, S., Gu*, D., Cauffman, S., and Fung, J. (2020). "Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: An Interdisciplinary Approach." *ASCE Journal Natural Hazards Review*, 21(3), 04020029-1, DOI: 10.1061/(ASCE)NH.1527-6996.0000387.
- **Sutley, E.J.**, Vazquez*, K., Dao, T., Kim*, J., Hunt*, J., and Johnston*, B. (2020). "Performance of Manufactured Housing during Hurricanes Irma and Michael." *ASCE Journal of Performance of Constructed Facilities*, 34(4), DOI: 10.1061/(ASCE)CF.1943-5509.0001486.
- **Kim*, J. H.**, **Sutley, E. J.**, and Martin, F. (2019). Review of Modern Wood Fungal Decay Research for Implementation into a Building Standard of Practice. *ASCE Journal of Materials in Civil Engineering*, 31(12), 03119005, DOI: 10.1061/(ASCE)MT.1943-5533.0002998.
- Al-Salih*, H., Juno*, M., **Collins, W.**, Bennett, C., Li, J., and **Sutley, E.J.** (2019). "Evaluation of a Digital Image Correlation Bridge Inspection Methodology on Complex Distortion-Induced Fatigue Cracking." *Elsevier Procedia Structural Integrity*, 17, 682-689, DOI: 10.1016/j.prostr.2019.08.091.
- **Sutley, E.J.** (2018). "An Approach for Guiding the Development and Assessing the Interdisciplinarity of New Methodologies that Integrate Social Science and Structural Engineering for Community Disaster Resilience." *Wiley Risk Analysis*, 41(7), 1066-1071, DOI: 10.1111/risa.13253.
- **Sutley, E.J.** and Hamideh, S. (2017). "An Interdisciplinary System Dynamics Model for Post-Disaster Housing Recovery." *Taylor & Francis Sustainable and Resilient Infrastructure*, 3(3), 109-127, DOI: 10.1080/23789689.2017.1364561.

- **Sutley, E.J.**, J.W. van de Lindt, and L. Peek, (2017). "Multi-Hazard Analysis: An Integrated Engineering and Social Science Approach." *ASCE Journal of Structural Engineering* Special Issue on Recent Advances in Assessment and Mitigation of Multiple Hazards for Structures and Infrastructures, 143(9), 04017107, DOI 10.1061/(ASCE)ST.1943-541X.0001846.
- Boadi-Danquah*, E., Robertson*, B., Fadden, M., **Sutley, E.J.**, and Colistra, J. (2017). "Lightweight Modular Steel Floor System for Rapidly Constructible and Reconfigurable Buildings." *WIT Press International Journal of Computational Methods and Experimental Measurements*, 5(4), 562-573, DOI: 10.2495/CMEM-V5-N4-562-573.
- **Sutley, E.J.**, van de Lindt, J.W. and Peek, L. (2017). "Community-Level Framework for Seismic Resiliency I: Coupling Socioeconomic Characteristics and Engineering Building Systems." *ASCE Natural Hazards Review*, 18(3), 04016014, DOI: 10.1061/(ASCE)NH.1527-6996.0000239.
- **Sutley, E.J.**, van de Lindt, J.W. and Peek, L. (2017). "Community-Level Framework for Seismic Resiliency II: Multi-Objective Optimization and Illustrative Examples." *ASCE Natural Hazards Review*, 18(3), 04016015, DOI: 10.1061/(ASCE)NH.1527-6996.0000230.
- **Sutley, E.J.** and van de Lindt, J.W. (2016). "Evolution of Seismic Risk for Woodframe Buildings." *ASCE Journal of Architectural Engineering*, 22(3), B4016004, DOI: 10.1061/(ASCE)AE.1943-5568.0000212.
- **Jennings¹, E.**, Ziaei, E., Pang, W., van de Lindt, J.W., Shao, X., Bahmani, P. (2015). "Full-Scale Experimental Investigation of Second-Story Collapse Behavior in an Over-Retrofitted First Story of a Woodframe Building." *ASCE Journal of Performance of Constructed Facilities*, 30(2), 04015004, DOI: 10.1061/(ASCE)CF.1943-5509.0000736.
- **Jennings¹, E.**, van de Lindt, J.W., Ziaei, E., Bahmani, P., Park, S., Shao, X., Pang, W., Rammer, D. Mochizuki, G., and Gershfeld, M. (2015). "Full-Scale Experimental Verification of Soft-Story-Only Retrofits of Woodframe Buildings with Hybrid Testing." *Taylor & Francis Journal of Earthquake Engineering*, 19(3), 410-430, DOI: 10.1080/13632469.2014.975896.
- **Jennings¹, E.**, van de Lindt, J.W., Ziaei, E., Mochizuki, G., Pang, W., and Shao, X. (2014). "Retrofit of a Soft-Story Woodframe Building using SMA Devices with Full-Scale Hybrid Test Verification." *Elsevier Engineering Structures*, 80, 469-485, DOI: 10.1016/j.engstruct.2014.09.021.
- **Jennings¹, E.** and van de Lindt, J.W. (2013). "Numerical Retrofit Study of Light-Frame Wood Buildings Using Shape Memory Alloy Devices as Seismic Response Modification Devices." *ASCE Journal of Structural Engineering*, 140(7), 469-485, DOI: 10.1061/(ASCE)ST.1943-541X.0000953.
- **Pang, W.**, Shao, X., van de Lindt, J.W., Ziaei, E., and **Jennings¹, E.** (2013). "Hybrid Testing of a Soft-Story Light-frame Wood Building with Seismic Retrofits." *Forest Products Lab Wood Design Focus: A Journal of Contemporary Wood Engineering*, 23(4).

Papers in Peer Review Process

1. **Unnithan*, N.**, Okeukwu-Ogbonnaya*, A., Amariuca, G., Natarajan, B., Dhanapala, P., Sreejith*, A., Madbhavi, R., Enderami, S.A., **Sutley, E.J.**, Russin*, E., Hutchison, J.M., Peltier, E., and Aziz, H. (n.d.). "HABiT: A Hetero-functional Agent-Based Infrastructure Toolkit for Modeling Community Resilience." *Elsevier Reliability Engineering and System Safety*, In Review.

¹ Former (maiden) last name of Elaina J. Sutley

2. Graham, M., Gelino, B., and **Sutley, E.J.** (n.d.). "Binary Operant Demand as a Framework to Assess Perceived Barriers to Community Safe Room Use." *Wiley Risk Analysis*, In Review.
3. Costa, R., Gremen, G., Hamideh, S., Nejat, A., and **Sutley, E.J.** (n.d.). "From Model Validation to Epistemic Assurance in Disaster Simulations." *Wiley Risk Analysis*, In Review.
4. Hoxey*, A., Taylor, M., Murphy, M., Beamis, S., Chamlagain, D., Styron, R., **Sutley, E.J.**, Adhikari, B., Curtiss*, E., Kafle, M., Fan*, S., Daniel*, M., Gosse, J., and Rittenour, T. (n.d.). "Surface expression of active deformation in the High Himalaya and implications for 3D evolution of the Himalaya thrust wedge." *GSA Bulletin*, In Review.
5. Rashid*, M.S., and **Sutley, E.J.** (n.d.). "Where are manufactured homes? An approach to fill data infrastructure gaps for hazard mitigation and climate resilience planning in the United States." Elsevier *Resilient Cities and Structures*, In Review.
6. Unnithan*, N., Okeukwu-Ogbonnaya, A., Amariuca, G., Natarajan, B., Dhanapala, P., Sreejith, A., Madbhavi, R., Enderami, S.A., **Sutley, E.J.**, Russin*, E., Hutchison, J., Peltier, E., and Aziz, H. (n.d.). "HABiT: A Hetero-functional Agent-Based Infrastructure Toolkit for Modeling Community Resilience." Elsevier *Reliability Engineering & System Safety*, In Review.
7. Adamu*, Y.B., Tolera*, A.B., Estephan*, J., Zisis, I., Chowdhury, A.G., Elawady, A., Dao, T.N., **Sutley, E.J.**, and Collins, W.N. (n.d.). "Aerodynamics of Manufactured Homes and Community Interference Effects". Elsevier *Journal of Building Engineering*, In Review.
8. Badmus*, A., Faghirnejad*, S., Graham*, M., **Sutley, E.J.**, and Bergtold, J. (n.d.). "A Behavior-Informed Framework for Assessing Tornado Shelter Need and Protection Gaps". Elsevier *Resilient Cities and Structures*, In Review.
9. Ewing, B. and **Sutley, E.J.** (n.d.). "Time Series Properties of Real Manufactured Housing Prices: Evidence from U.S. Census Regions with Natural Hazard Exposure." *ASCE Natural Hazards Review*, In Review.
10. Nofal, O., Rosenheim, N., Jeon, H., Kameshwar, S., Enderami, A., Lu, T., van de Lindt, J., **Sutley, E.J.**, Cutler, H., Mohamed, A., Patil, J., Zhou, X., Duenas-Osorio, L., and Wang, C. (n.d.). "From Physical Vulnerability to Functionality: Socio-Physical Post-Hazard Functionality Assessment Approach for Communities", MDPI *Infrastructures and Structural Engineering*, In Review.
11. Graham*, M., Gelino, B., **Sutley, E.J.**, and Reed, D. D. (n.d.). "Using Behavioral Economics to Examine Community Shelter Use." *AMS Weather, Climate, and Society*, In Review.
12. Liu, C.F., Enderami, S.A., Mazumder, R.K., and **Sutley, E.J.** (n.d.). Equity-Aware Coordination Metrics for Post-disaster Housing Recovery: A Scenario-Based Modeling Framework." *Wiley Computer-Aided Civil and Infrastructure Engineering*, In Review.
13. Sharmin*, R., **Sutley, E.J.**, Bergtold, J., Osman*, E., Martinez, A., Bronleewe, T., and Colclazier, J. (n.d.). "Progress and Challenges to Incorporating Equity in Social and Physical Infrastructure Research", *ASCE Journal of Infrastructure Systems*, In Review.
14. Okeukwu-Ogbonnaya*, A., Enderami, S.A., **Sutley, E.J.**, and Amariuca, G. (n.d.). "Dynamic Hetero-Functional Graph Modelling for Enabling Community-Value-Informed Operational Decisions in Utility Infrastructures." *IEEE Transactions on Reliability*, In Review.

Conference Proceedings

- **Sutley, E.J.** and Hamideh, S. (2026). "Functional Recovery Needs Coordinated Longitudinal Data Collections." 13th National Conference on Earthquake Engineering (13NCEE), Portland, Oregon, July 13-17, 2026.
- **Thompson, E.M.** and **Sutley, E.J.** (2026). "Support for the motion: 'The earthquake engineering community would benefit from more open-source tools in earthquake engineering research and practice'." 13th National Conference on Earthquake Engineering (13NCEE), Portland, Oregon, July 13-17, 2026.
- **Badmus*, A.** and **Sutley, E.J.** (2025). "Risk-Based Lifecycle Benefit-Cost Analysis for Tornado Hazard Mitigation for Wood-Frame Residential Buildings." 14th International Conference on Structural Safety and Reliability (ICOSSAR), Los Angeles, California, June 1-6, 2025.
- **Wang, L.,** Van de Lindt, J., Hamideh, S., and **Sutley, E.J.** (2023). "The Life-Cycle of a Community for Physical-Social Interdependent Resilience Impacted by Policy Decisions Following Tornado Hazards." *Eighth International Symposium on Life-Cycle Civil Engineering (IALCCE 2023)*, Milan, Italy, July 2-6, 2023, DOI: 10.1201/9781003323020-34.
- **Rahimi, M.,** Mazumder, R.K., Nofal, O., Padgett, J., Rosenheim, N., **Sutley, E.J.,** Mohammadi Darestani, Y., van de Lindt, J. W. (2022). "Development of multi-hazard recovery and restoration models for building and transportation systems: A case study in Galveston Island." *13th International Conference on Structural Safety & Reliability (ICOSSAR)*, Shanghai, China, June 22-24.
- **Enderami, S.A.,** Mazumder, R.K., and **Sutley, E.J.** (2022). "Framework for Incorporating Community Social Vulnerability in the Assessment of Hurricane-Induced Wind Risk to Residential Buildings." *14th Americans Conference on Wind Engineering (ACWE)*, hosted by the National Wind Institute at Texas Tech University, Lubbock, Texas, May 17-19, 2022.
- **Mazumder, R.K.,** Enderami, S.A., and **Sutley, E.J.** (2022). "A Scenario-based Approach for Hurricane-Induced Wind Risk Analysis in Urban Areas." *14th Americans Conference on Wind Engineering (ACWE)*, hosted by the National Wind Institute at Texas Tech University, Lubbock, Texas, May 17-19, 2022.
- **Mazumder, R.K.,** Dumler, M., Enderami, S.A., and **Sutley, E.J.** (2021). "A Scenario-Based Hurricane Analysis Framework for Community-level Building Damage Estimation, *6th American Association for Wind Engineering Workshop*, organized by Clemson University, Virtual, May 12-14, 2021.
- **Juno, M.,** Al-Salih, H., Collins, W., Bennett, C., Li, J., and **Sutley, E.J.** (2020). "Investigating Lighting and Focus Limitations of Digital Image Correlation as a Bridge Inspection Tool." *Structures Congress*, St. Louis, Missouri, April 2020.
- **Al-Salih, H.,** Juno, M., Collins, W., Bennett, C., Li, J., and **Sutley, E.J.** (2019). "Evaluation of a Digital Image Correlation Bridge Inspection Methodology on Complex Distortion-Induced Fatigue Cracking." *ICSI 2019 The 3rd International Conference on Structural Integrity*, Funchal, Madeira, Portugal, September 2-5, 2019.
- **Sutley, E.J.,** Hamideh, S., Dillard, M.K., Gu, D., Seong, K., and van de Lindt, J.W. (2019). "Integrative Modeling of Housing Recovery as a Physical, Economic, and Social Process." *13th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP13*, Seoul, South Korea, May 26-30, 2019.
- **Deniz, D.,** **Sutley, E.J.,** van de Lindt, J.W., Peacock, W.G., Rosenheim, N. Gu, D., Koliou, M. and Hamideh, S. (2019). "Flood Performance and Dislocation Assessment for Lumberton Homes after

Hurricane Matthew.” *13th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP13*, Seoul, South Korea, May 26-30, 2019.

- Kim, J.H., **Sutley, E.J.**, and Martin, F. (2019). “Merging State-of-the-Art Research with Modern Practices to Improve the Quality of Wood Structures Exposed to Decay Fungi.” *2019 SEI Structures Congress*, Orlando, Florida, April 25-27, 2019.
- **Sutley, E.J.** and Srubar, W. (2018). “Quantifying Social, Economic, and Environmental Sustainability of Disaster Policies.” *11th National Conference on Earthquake Engineering*, Los Angeles, California, June 25-29, 2018.
- McVey, M., Bennett, C., Collins, W., Lequesne, R., Luchies, C., Wilson, S., **Sutley, E.J.**, Fadden, M., and Melgares, C. (2018). “Peer Mentoring for All: Investigating the Feasibility of a Curricular-Embedded Peer Mentoring Structure.” *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 24-27, 2018.
- Badeaux, L. and **Sutley, E.J.** (2018). “Measuring Sustainability and Resilience Tradeoffs across Post-Disaster Temporary Housing.” *4th Residential Building Design and Construction Conference*, State College, Pennsylvania, February 28-March 1, 2018.
- **Sutley, E. J.** and Hamideh, S. (2017). “What Drives Housing Recovery.” *2nd International Workshop on Modeling Physical, Economic, and Social Systems for Resilience Assessment*, Ispra, Italy, December 14-16, 2017.
- Robertson, B., Boadi-Danquah, E., Fadden, M., **Sutley, E.J.**, and Colistra, J. (2017). “Lightweight Rapidly Constructible and Reconfigurable Modular Steel Floor Systems: Serviceability Analysis and Design,” *Architectural Engineering Institute Conference*, Oklahoma City, Oklahoma, April 11-13, 2017.
- **Sutley, E.J.**, van de Lindt, J.W. and Peek, L. (2017). “The Costs of Not Retrofitting from a Combined Engineering, Socioeconomic and Demographic Perspective.” *16th World Conference on Earthquake Engineering*, Santiago, Chile, January 9-13, 2017.
- **Sutley, E.J.** and Hamideh, S. (2016). “A Community Model for Residential Sector Recovery: An Integrated Engineering and Social Science Perspective.” *1st International Workshop on Resilience*, Torino, Italy, September 20-22, 2016.
- Robertson, B., Boadi-Danquah, E., Fadden, M., **Sutley, E. J.**, and Colistra, J. (2016). “Lightweight Modular Steel Floor System for Rapidly Constructible and Reconfigurable Buildings.” *5th International Conference on Mobile, Adaptable and Rapidly Assembled Structures*, Siena, Italy, September 21-23, 2016.
- **Sutley, E.J.**, Fadden, M., and Li, J. (2016). “A Vision for Smart Cities based on Current Research.” *Institute of Electrical and Electronics Engineers Smart Cities Workshop*, Kansas City, Missouri, February 8-9, 2016.
- Ho, A., **Sutley, E.J.**, Kondyli, A., and Johnson, B. (2016). “Building an Adaptive System for Multiple Policy Goals in Cities.” *Institute of Electrical and Electronics Engineers Smart Cities Workshop*, Kansas City, Missouri, February 8-9, 2016.
- **Jennings¹, E.**, van de Lindt, J.W., and Peek, L. (2015). “Multi-Objective Community-Level Seismic Retrofit Optimization for Resiliency using Engineering and Socioeconomic Variables.”

12th International Conference on Applications of Statistics and Probability in Civil Engineering,
Vancouver, Canada, July 12-15, 2015.

- **Jennings¹, E.**, van de Lindt, J.W., and Peek, L. (2014). "Multi-Objective Optimization Approach for Decision-Making Based on Community Level Resiliency Considering Engineering and Social Variables." *Third International Conference on Urban Disaster Reduction*, Boulder, Colorado, September 28-October 1, 2014.
- **Jennings¹, E.**, van de Lindt, J., Shao, X., Pang, W., and Ziaei, E. (2014). "Full-Scale Hybrid Testing of a Soft-Story Woodframe Building Seismically Retrofitted Using Shape Memory Alloy Devices in Scissor-Jack Braces." *Tenth U.S. National Conference on Earthquake Engineering*. Frontiers of Earthquake Engineering, Anchorage, Alaska, July 21-25, 2014.
- van de Lindt, J.W., Bahmani, P., **Jennings¹, E.**, Pang, W., Ziaei, E., Mochizuki, G., Gershfeld, M., Pryor, S., Shao, X., Symans, M., Tian, J., and Rammer, D. (2014). Full-Scale Testing of Soft-Story Woodframe Buildings with Stiffness-Based Retrofits. *Tenth U.S. National Conference on Earthquake Engineering*. Frontiers of Earthquake Engineering, Anchorage, Alaska, July 21-25, 2014.
- Pang, W., Ziaei, E., Shao, X., **Jennings¹, E.**, van de Lindt, J., Gershfeld, M., and Symans, M. (2014). "A Three-Dimensional Model for Slow Hybrid Testing of Retrofitted Soft-Story WoodFrame Buildings." *Tenth U.S. National Conference on Earthquake Engineering*. Frontiers of Earthquake Engineering, Anchorage, Alaska, July 21-25, 2014.
- Shao, X., van de Lindt, J., Bahmani, P., Pang, W., Ziaei, E., Symans, M., Tian, J., **Jennings¹, E.**, Dao, T. (2014). "Real-time hybrid simulation of a stacked wood shear wall with viscous damper." *Tenth U.S. National Conference on Earthquake Engineering*. Frontiers of Earthquake Engineering, Anchorage, Alaska, July 21-25, 2014.
- van de Lindt, J.W., Bahmani, P., Gershfeld, M., Mochizuki, G., Shao, X., Pryor, S., Pang, W., Symans, M., Tian, J., Ziaei, E., **Jennings¹, E.**, and Rammer, D. (2014). Seismic Risk Reduction for Soft-Story Wood-Frame Buildings: "Test Results and Retrofit Recommendations from The NEES-Soft Project." *World Conference on Timber Engineering*, Quebec City, Canada, August 10-14, 2014.
- Gershfeld, M., Chadwell, C., **Jennings¹, E.**, Ziaei, E., Pang, W., Shao, C., and van de Lindt, J. (2014). "Seismic Performance of Distributed Knee-Brace (DKB) System as a Retrofit for Weak-Story Wood-Frame Buildings." *World Conference on Timber Engineering*, Quebec City, Canada, August 10-14, 2014.
- Pang, W., Ziaei, E., **Jennings¹, E.**, Shao, X., van de Lindt, J., Gershfeld, M., and Pryor, S. (2014). "Numerical Model for Hybrid Simulation of a Three-Story Wood-Frame Building." *World Conference on Timber Engineering*, Quebec City, Canada, August 10-14, 2014.
- van de Lindt, J.W., Bahmani, P., Pryor, S., Mochizuki, G., Gershfeld, M., Pang, W., Ziaei, E., **Jennings¹, E.**, Symans, M., Shao, X., Tian, J., and Rammer, D. (2014). "Overview of the NEES-Soft Experimental Program for Seismic Risk Reduction of Soft-Story Woodframe Buildings." *Structures Congress 2014*: pp. 2875-2885, Boston, Massachusetts, April 3-5, 2014.
- Gershfeld, M., Chadwell, C., van de Lindt, J., Pang, W., Ziaei, E., Amini, M., Gordon, S., and **Jennings¹, E.** (2014). "Distributed Knee-Braced (DKB) System as a Complete or Supplemental Retrofit of Soft-Story Wood-frame Buildings." *Structures Congress 2014*: pp. 2853-2874, Boston, Massachusetts, April 3-5, 2014.

- van de Lindt, J.W., Bahmani, P., Gershfeld, M., Mochizuki, G., Shao, X., Pang, W., Symans, M., Ziaei, E., **Jennings¹, E.**, Pryor, S., Rammer, D., and Tian, J. (2013). "Full-Scale Dynamic Testing of Soft-Story Retrofitted and Un-Retrofitted Woodframe Buildings." *Structural Engineers Association of Southern California*, San Diego, California.
- **Jennings¹, E.**, and van de Lindt, J.W. (2013). "Low Cost Shape Memory Alloy Devices for Seismic Response Modification of Light-Frame Wood Buildings." *Structures Congress 2013*: pp. 1205-1216, Pittsburgh, Pennsylvania, May 2-4, 2013, DOI: 10.1061/9780784412848.107.
- **Jennings¹, E.**, Wang, J., Fridley, K., and Chen, C. (2013). "Temperature Effect on Subcritical Crack Growth in CFRP Externally Bonded Concrete Systems." *ASC 28th annual technical conference*, State College, Pennsylvania, September 9-11, 2013.
- **Jennings¹, E.**, and van de Lindt, J.W. (2012). "Shape Memory Alloy Dampers for Response Modification of Light-Frame Wood Buildings." *15th World Conference on Earthquake Engineering*, Lisboa, Portugal, September 24-28, 2012.

Book Chapters

- Van de Lindt, J.W., Fields, C., and **Sutley, E.J.** (2021). "Community Socio-Economics." a chapter in *Hazard-Resilient Infrastructure: Analysis and Design*, ASCE Manuals and Reports on Engineering Practice No. 144, edited by Bilal Ayyub, American Society of Civil Engineers, Reston, VA, DOI: 10.1061/9780784415757.
- Souto-Martinez, A., **Sutley, E.J.**, Liel, A.B., and Srubar III, W.V. (2018). "Embodied Carbon of Wood and Reinforced Concrete Structures Under Chronic and Acute Hazards." This is a Chapter in *Embodied Carbon in Buildings Measurement, Management, and Mitigation*, Editors Pomponi, F., De Wolf, C., and Moncaster, A., pages 77-103, Springer International Publishing, DOI: 10.1007/978-3-319-72796-7.

Reports

- Chowdhury, A., Zisis, I., Elawady, A., **Sutley, E.J.**, Collins, W., and Dao, T. (2025). Section 2 "Understanding Hurricane Effects on Manufactured Homes." Florida Division of Emergency Management (2025). Hurricane Loss Mitigation Program 2025 Annual Report.
- Structural Engineering Institute (2025). *Toward Zero Carbon: Developing a Roadmap for the Structural Engineering Profession and the Structural Engineering Institute*, ASCE, Reston, VA, Final Workshop Report.
- Graham, M.E., Gelino, B.W., and **Sutley, E.J.** (2025). *Safe Room Sheltering in Manufactured Housing Residents: A Barriers Assessment*. Weather Read Research, Natural Hazards Center.
- Chowdhury, A., Zisis, I., Elawady, A., **Sutley, E.J.**, Collins, W., and Dao, T. (2024). Section 2 "Understanding Hurricane Effects on Manufactured Homes." Florida Division of Emergency Management (2024). Hurricane Loss Mitigation Program 2024 Annual Report.
- Chowdhury, A., Zisis, I., Elawady, A., **Sutley, E.J.**, Collins, W., and Dao, T. (2024). Section 2 "Understanding Hurricane Effects on Manufactured Homes." Florida Division of Emergency Management (2024). Hurricane Loss Mitigation Program 2023 Annual Report.
- Meyer, M., Duenas-Osorio, L., Dillard, M.K., and **Sutley, E.J.** (2024). *Community Resilience-Focused Technical Investigation of the Lumberton, North Carolina Flood Of 1016, Wave 5: Understanding Recovery from Sequential Disasters*. National Institute of Standards and Technology (NIST SP 1230-3), DOI: 10.6028.NIST.SP.1230-5.

- Chowdhury, A., Zisis, I., Elawady, A., **Sutley, E.J.**, Collins, W. and Dao, T. (2023). Section 2 “Understanding Hurricane Effects on Manufactured Homes.” Florida Division of Emergency Management (2023). Hurricane Loss Mitigation Program 2022 Annual Report. <https://www.floridadisaster.org/contentassets/67775538dba247efb56d2a781532e64b/2022-hlmp-annual-report.pdf>
- Watson, M., Crawford, S., **Sutley, E.J.**, and Loerzel, J. (2022). *Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Occupancy and Operational Status During the COVID-19 Global Pandemic*. National Institute of Standards and Technology (NIST SP 1230-4), DOI: 10.6028.NIST.SP.1230-4.
- Helgeson, J., Hamideh, S., and **Sutley, E.J.** (2021). *Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Community Impact and Recovery Following Successive Flood Events*. National Institute of Standards and Technology (NIST SP 1230-3), DOI: 10.6028.NIST.SP.1230-3.
- **Sutley, E.J.**, Dillard, M.K., and van de Lindt, J.W. (2021). *Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Community Recovery One Year Later*. National Institute of Standards and Technology (NIST SP 1230-2), DOI: 10.6028.NIST.SP.1230-2.
- **Sutley, E.J.**, Lequesne, R., Gelino, B., Reed, D., Phan, N., Smith, M., Dumler, M., Bhatta, A., Enderami, S., and Snay, A. (2020) "May 28, 2019 EF4 Linwood Tornado: Six-Month Post-Tornado Recovery Report", in *StEER - 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1)*. DesignSafe-CI: Report, DOI: 10.17603/ds2-qbsx-ma75.
- **Sutley, E.J.**, Lequesne, R., Li, J., Kirkham, B., Chen, Z., Al-Sabawy, A., Daniel, L., Enderami, S.A., Kim, J., Mudaliar, T., Taher, S., Sharma, P., and Roueche, D. (2019) “StEER - 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM (FAST) EARLY ACCESS RECONNAISSANCE REPORT (EARR).” DesignSafe-CI: Report. <https://doi.org/10.17603/ds2-xz1j-nm14>.
- van de Lindt, J.W., Peacock, W., Mitrani-Reiser, J., Rosenheim, N., Deniz, D., Dillard, M., Tomiczek, T., Koliou, M., Graettinger, A., Crawford, S., Harrison, K., Barbosa, A., Tobin, J., Helgeson, J., Peek, L., Memari, M., **Sutley, E.J.**, Gu, D., Cauffman, S., and Fung, J. (2018). *Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Multi-Disciplinary Approach*. van de Lindt, J.W., W. G. Peacock, and J. Mitrani-Reiser (ed). National Institute of Standards and Technology (NIST SP 1230), DOI: 10.6028.NIST.SP.1230.
- Alipour, A., Aly, A., Davis, B., Gutierrez Soto, M., Kijewski-Correa, T., Lenjani, A., Lichty, B., Miner, N., Roueche, D., Salman, A., Smith, D., **Sutley, E.J.**, Mosalam, K., Prevatt, D., and Robertson, I., (2018), "StEER - HURRICANE MICHAEL: PRELIMINARY VIRTUAL ASSESSMENT TEAM (P-VAT) REPORT", DesignSafe-CI, Report. DOI: 10.17603/DS2RH71.
- **Jennings¹, E.** (2015). “A Multi-Objective Community Level Seismic Retrofit Optimization Combining Social Vulnerability with an Engineering Framework for Community Resilience.” A dissertation. Colorado State University. Copyright 2002-2013. Duraspace. <http://hdl.handle.net/10217/166964>.
- **Jennings¹, E.** (2011). “Environment-Assisted Subcritical Crack Growth in CFRP Externally Bonded Concrete Systems.” A thesis. University of Alabama. Order No. 1505196. Available from ProQuest Dissertations & Thesis Global (917745430).

Datasets, Data Collection Instruments and Missions, and Data Reports

- Husic, A., Appel*, E., **Sutley, E.J.**, Enderami, A. (2026). Disproportionate exposure to extreme floods in historically redlined U.S. communities. figshare. Dataset. DOI: 10.6084/m9.figshare.29922668.
- Amini, K., Padgett, J., Palit, T., Beck*, A., Patil*, J., Lu*, T., Gupta*, H., Darestani*, Y., González, A., Cutler, H., Dueñas-Osorio, L., Nofal, O., van de Lindt, J., Rosenheim, N., **Sutley, E.J.**, and Cha, E. (2026). "Report", in Galveston Testbed: Multi-Hazard Socio-Physical Datasets for Coastal Community Resilience Assessment. DesignSafe-CI. DOI: 10.17603/ds2-j786-zh05.
- Amini, K., Padgett, J., van de Lindt, J., Nofal, O., Rosenheim, N., and **Sutley, E.J.** (2026). "Building Inventory", in Galveston Testbed: Multi-Hazard Socio-Physical Datasets for Coastal Community Resilience Assessment. DesignSafe-CI. DOI: 10.17603/ds2-pcyb-4632.
- Amini, K., Padgett, J., Beck*, A., Lu*, T., Gupta*, H., González, A., Cutler, H., Rosenheim, N., **Sutley, E.J.**, and Cha, E. (2026). "Social Systems", in Galveston Testbed: Multi-Hazard Socio-Physical Datasets for Coastal Community Resilience Assessment. DesignSafe-CI. DOI: 10.17603/ds2-7z5b-zw54.
- Dao, T., Badmus*, A., **Sutley, E.J.**, Collins, W., Chowdhury, A., Zisis, I., Elawady, A., Onyia*, V., and Do*, V. (2025). "General Hysteresis Model", in General Hysteresis Model Data and MATLAB codes. DesignSafe-CI. DOI: 10.17603/ds2-4j3s-8c53.
- **Sutley, E.J.**, and Wu*, Y. (2024). *Assessing the Influence of Hazard Mitigation Planning on Disaster Recovery*. DesignSafe-CI. DOI: 10.17603/ds2-4jyt-n913.
- Ritchie, L., **Sutley, E.J.**, Gibb, C., Gill, D., Sibley*, M., Husain*, J., and Hamilton*, K. (2023) "Interview Guides and IRB Materials", in Research on COVID-19 Disaster Researchers. DesignSafe-CI, DOI: 10.17603/ds2-wkj8-sr38 v1.
- Mostafavi, A., Padgett, J., Dueñas-Osorio, L., **Sutley, E.J.**, Norton, T., Lester, H., Wang, H., Dong, T., Sichani, M., Farahmand, H., Jimenez, E., Esmalian, A., Coleman, N., Dargin, J., Zhou, X., and Lee, C. (2022). Hurricane Harvey Infrastructure Resilience Investigation [Version 2]. DesignSafe-CI. DOI: 10.17603/ds2-grcf-h607.
- Enderami*, S., and **Sutley, E.J.** (2022). Social Vulnerability Analysis in Virtual Community Resilience Testbeds. DesignSafe-CI. DOI: 10.17603/ds2-j95s-sp06.
- Enderami*, S., **Sutley, E.J.**, and Mazumder, R. (2022). *Onslow Community Resilience Testbed*. DesignSafe-CI. DOI: 10.17603/ds2-8h8f-xe60.
- Mazumder, R., Enderami*, S., and **Sutley, E.J.** (2022) "Scenario Hurricane Risk Analysis", in Scenario-based Hurricane Risk Analysis (SHRA) Framework. DesignSafe-CI, DOI: 10.17603/ds2-jzcv-he68.
- Enderami*, S. A., and **Sutley, E.J.** (2021). "Testbed Experts Survey Report." Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI, DOI: 10.17603/ds2-91jj-fh94.
- **Sutley, E.J.**, Enderami*, S. A., Mazumder, R., and Dumler*, M. (2021). "Testbed Experts Survey Responses." Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI, DOI: 10.17603/ds2-9w9v-my55.
- Wang*, T., Dumler*, M., Mazumder, R., and **Sutley, E.J.** (2021) "Tornado Risk Perception of University of Kansas Campus Community", in Local Perceptions on Building Safety and Building

Performance after the 2019 EF4 Linwood, Kansas Tornado. DesignSafe-CI, DOI: 10.17603/ds2-dw38-z509.

- Dumler*, M., **Sutley, E.J.**, and Lequesne, R. (2021) "Contractor's Perceptions of Tornado-Resistant Building Design", in Local Perceptions on Building Safety and Building Performance after the 2019 EF4 Linwood, Kansas Tornado. DesignSafe-CI, DOI: 10.17603/ds2-f9db-p423.
- Mazumder, R., **Sutley, E.J.**, and Dumler*, M. (2021) "Data Report on Local Perceptions on Building Safety and Building Performance after the 2019 EF4 Linwood Tornado", in Local Perceptions on Building Safety and Building Performance after the 2019 EF4 Linwood, Kansas Tornado. DesignSafe-CI, DOI: 10.17603/ds2-hkcv-xp72.
- **Sutley, E.J.**, Reed, D., Lequesne, R., Kirkham, W., Li, J., Kim*, J., Gelino*, B., Enderami*, S., Dumler*, M., Taher*, S., Bhatta*, A., Vazquez*, K., Caraway-Short*, L. (2021) "Six-month Post-tornado Repair Progress: Wave 2", in StEER - 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1). DesignSafe-CI, DOI: 10.17603/ds2-an2v-2c39.
- **Sutley, E.J.**, Lequesne, R., Gelino*, B., Reed, D., Phan*, N., Smith*, M., Dumler*, M., Bhatta*, A., Enderami*, S., and Snay*, A. (2021) "May 28, 2019 EF4 Linwood Tornado: Six-Month Post-Tornado Recovery Report," in StEER – 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1). DesignSafe-CI. DOI: 10.17603/ds2-qbsx-ma75.
- **Sutley, E.J.**, Dumler*, M., Mazumder, R., Lequesne, R., Li, J., Kirkham, W., Reed, D., Kim*, J., Thompson*, T. (2021) "One-year Post-tornado Repair Progress: Wave 3", in StEER - 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1). DesignSafe-CI, DOI: 10.17603/ds2-5ysj-a554.
- **Sutley, E.J.**, Chen, Z., Li, J., Chao, H., Daniel*, L., Clements*, J., Sharma*, P., Taher*, S., Kim*, J., Lequesne, R., Kirkham, W., Roueche, D. (2021) "Door to door damage assessment survey", in StEER - 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1). DesignSafe-CI: Dataset, DOI: 10.17603/ds2-a06x-f358.
- **Mazumder, R., Sutley, E.J.**, Dumler*, M. (2021) "Data Report on Household Impact and Recovery Assessment: A longitudinal Investigation after the 2019 EF4 Linwood, Kansas Tornado", in StEER – 28 MAY 2019 LINWOOD, KS EF4 TORNADO: FIELD ASSESSMENT STRUCTURAL TEAM 1 (FAST-1). DesignSafe-CI: Data Report, DOI: 10.17603/ds2-87ne-d742.
- **van de Lindt, J.**, Peacock, W., Mitrani-Reiser, J., Rosenheim, N., Deniz, D., Dillard, M., Tomiczek, T., Koliou, M., Graettinger, A., Crawford, S., Harrison, K., Barbosa, A., Tobin, J., Helgeson, J., Peek, L., Memari*, M., **Sutley, E.J.**, Hamideh, S., Gu*, D., Cauffman, S., and Fung, J. (2020). "Wave 1," in a Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI. DOI: 10.17603/ds2-sxz7-2q05.
- **Crawford, S., Sutley, E.J.**, Tomiczek, T., Farokhnia, K., Deniz, D., Mitrani-Reiser, and J., van de Lindt, J. (2020). "Building Damage Survey Instrument, October 16, 2018: Wave 3a," in a Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI. DOI: 10.17603/ds2-6xjf-4d59.
- **Tobin, J.**, Peek, L., van de Lindt, J., **Sutley, E.J.**, Dillard, M., Watson*, M., Helgeson, J., Hamideh, S., Mitrani-Reiser, J. (2021) "Institutional Review Board Protocol 2015 - 2020", in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI: IRB Protocol, DOI: 10.17603/ds2-9w11-tn85.

- **Sutley, E.J.**, Dillard, M., Hamideh, S., Peacock, W., Tobin, J., Peek, L., Seong*, K., Barbosa, A., Tomiczek, T., van de Lindt, J., Gu, D. (2020) "Household Survey Instrument, January 19, 2018: Wave 2", in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI: Survey, DOI: 10.17603/ds2-db3h-gy28.
- **Xiao, Y.**, Watson*, M., Helgeson, J., Farokhnia, K., van de Lindt, J., Mitrani-Reiser, J., **Sutley, E.J.**, Deniz, D., Tomiczek, T., Barbosa, A., Fung, J., Nofal, O., Koliou, M. (2020) "Business Survey Instrument, January 19, 2018: Wave 2", in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI: Survey, DOI: 10.17603/ds2-f9kt-fm93.
- Deniz, D., **van de Lindt, J.**, Tomiczek, T., Koliou, M., Barbosa, A., **Sutley, E.J.**, Peacock, W., Mitrani-Reiser, J., Jones, C., Coulbourne, W. (2020) "Building Damage Survey Instrument, November 26, 2016: Wave 1", in A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016. DesignSafe-CI: Survey, DOI: 10.17603/ds2-b1yd-pq98.
- **Sutley, E.J.**, Dao, T., and Kim, J. (2019) "RAPID: Assessing the Performance of Elevated Wood Buildings, including Manufactured Housing, in Florida during 2018 Hurricane Michael." DesignSafe-CI: Dataset, DOI: 10.17603/ds2-85fv-n684.
- **Jennings¹, E.**, Ziaei, E., van de Lindt, J.W., Pang, W., Shao, X., Mochizuki, G., Gershfeld, M., Rammer, D., Tian, J., and Symans, M. (2014). "Hybrid Testing of a Full-Scale Three-Story Soft-Story Woodframe Building", Network for Earthquake Engineering Simulation (distributor), Dataset, DOI: 10.4231/D3JS9H85N.

Magazine and Online Articles

- **Kim, J.**, and **Sutley, E.J.** (2020). Investigating the Effects of Wind on Elevated Buildings in the Field and at the Wall of Wind. Newsletter of American Association for Wind Engineering, Research Article, 3-8. November 2020. <https://aawe.org/wp-content/uploads/2020/11/The-Wind-Engineer-2020-November.pdf>
- **Ritchie, L.**, Sibley, M., Dumler, M., **Sutley, E.J.**, Gibb, C., and Gill, D. (2020). Research on Researchers (RoR) Working Group Research Agenda-Setting Paper. CONVERGE COVID-19 Working Groups for Public Health and Social Sciences Research. Boulder, CO: Natural Hazards Center, University of Colorado Boulder. https://converge.colorado.edu/v1/uploads/images/researchonresearchers_ror-1594485622376.pdf.
- **Fischer, E.**, Porter, K., and **Sutley, E.J.** (2019). "Community Resilience through Mandatory Retrofit Ordinances: What is the role of the Structural Engineer?" STRUCTURE Magazine, Structural Sustainability Issue, June 2019.
- **Sutley, E.J.** (2018). "Ending Bias in Disaster Mitigation and Recovery Policies." *Research Counts*, Natural Hazards Center, June 10, 2018. <https://hazards.colorado.edu/news/research-counts/ending-bias-in-disaster-mitigation-and-recovery-policies>, and shared on Prevention Web: <https://www.preventionweb.net/news/view/58736>.

PRESENTATIONS

Invited Presentations and Lectures

- **Sutley, E.J., and Davis, C.** (2026). "Incorporating Human Dimensions and Impact into Community Resilience and Decision-Making: Perspectives for Engineering." Invited Webinar, Applied Technology Council, May 20, 2026.
- **Sutley, E.J.** (2026). "Simulating post-disaster housing functionality restoration using findings from the field." Invited Virtual Lecture, Selected Topics in Resilience Engineering, Oregon State University, April 27, 2026.
- **Sutley, E.J.** (2026). "Advancing Community Disaster Resilience using Experimental, Field-based and Simulation Methods." Invited Virtual Lecture, Interdisciplinary Foundations in Disaster Resilience, Virginia Tech, March 2, 2026.
- **Sutley, E.J.** (2025). "Advancing Community Disaster Resilience using Experimental, Field-based and Simulation Methods." Invited Virtual Presentation, Applied Technology Council Board of Directors, November 13, 2025.
- **Sutley, E.J.** (2025). "Disaster Reconnaissance: A catalyst for discovery, collaboration, commitment and impact." NHERI Presents Series, Invited Virtual Presentation, October 22, 2025. Access here: <https://www.designsafe-ci.org/learning-center/training/webinars/ds/2025/disaster-reconnaissance/>.
- **Sutley, E.J.** (2025). "Physical Rebuilding After a Disaster: Recovery Phase." Invited Lecture, PMO 1009: Domestic Disaster Management and Response, National Center for Disaster Medicine and Public Health (NCDMPH), Uniformed Services University (USU), Recorded Virtual Lecture, November 18, 2025.
- **Sutley, E.J.** (2025). "Interdisciplinary Disaster Research 101," Invited Lecture, Adaptive and Resilient Infrastructures Driven by Social Equity (ARISE) REU Program, University of Kansas, Lawrence, KS, May 29, 2025.
- **Sutley, E.J.** (2025). "Opportunities to bridge technical and social dimensions of resilience using AI," Invited Presentation, 2025 Future of the Building Industry (FoBI) – AI for Resilient Communities Workshop, University of Nebraska Lincoln Durham School, Omaha, Nebraska, May 22-23, 2025.
- **Sutley, E.J.** (2025). "Moving Towards Zero Carbon in the Built Environment," Invited Presentation, Kansas Society of Professional Engineers, Lenexa, Kansas, April 23, 2025.
- **Sutley, E.J.** (2025). "Testbed Experiences and Lessons", Invited Presentation, SimCenter Community Roundtable: Regional Earthquake Testbeds: Advancing Data and Models, Virtual, April 15, 2025.
- **Sutley, E.J.** (2025). "Challenges and Opportunities", Invited Presentation, SimCenter Community Roundtable: Community Roundtable on Post-disaster Housing and Household Recovery, Virtual, January 22, 2025.
- **Sutley, E.J.** (2025). "Advancing Community Disaster Resilience with Experimental, Field-based and Simulation Methods." Invited Lecture, Centennial Scholar Presentation, Department of Civil, Construction and Environmental Engineering, University of Alabama, Tuscaloosa, Alabama, March 4, 2025.
- **Sutley, E.J.** (2024). "Integrating post-Hurricane Michael reconnaissance and experimental research to change wind load provisions on elevated buildings." Invited Lightning Talk at the Natural Hazards Research Summit 2024, College Park, Maryland, May 14, 2024.

- **Sutley, E.J.** (2024). "Data Reuse for Advancing Interdependent Social System Modeling." Invited Session Presentation at the Natural Hazards Research Summit 2024, College Park, Maryland, May 15, 2024.
- **Sutley, E.J.** (2024). "Community-Engagement and Longitudinal Field Studies for Advancing Resilience." Invited Session Presentation at the Natural Hazards Research Summit 2024, College Park, Maryland, May 15, 2024.
- **Sutley, E.J.** (2024). "Regional Simulations to Support Risk Mitigation and Resilience Planning: Lumberton and ARISE." Invited Session Presentation at the Natural Hazards Research Summit 2024, College Park, Maryland, May 15, 2024.
- **Sutley, E.J.,** and Zsarnoczay, A. (2024). "Regional Simulations to Support Risk Mitigation and Resilience Planning: Infrastructure and Population Inventories." Invited Session Presentation at the Natural Hazards Research Summit 2024, College Park, Maryland, May 15, 2024.
- **Sutley, E.J.,** and van de Lindt, J.W. (2024). "Regional Simulations to Support Risk Mitigation and Resilience Planning": Challenges and Gaps in Describing Impacts and Recovery." Invited Session Presentation at the Natural Hazards Research Summit 2024, College Park, Maryland, May 15, 2024.
- **Sutley, E.J.** (2024). "Evaluating the racial equity of flooding hazards in the Kansas City metropolitan area." *Red Hot Research @ The Commons*, University of Kansas, Lawrence, KS, April 26, 2024.
- **Sutley, E.J.** (2024). "Computational Modeling of Spatio-Temporal Processes." Invited presentation at the Social Science Quantitative Methods Reading Group, Kansas Data Science Consortium, Lawrence, KS, April 19, 2024.
- **Sutley, E.J.** (2024). "DEI for your Future." Invited Keynote presentation at the IHAWKe End of Year Celebration, University of Kansas, Lawrence, KS, April 18, 2024.
- **Sutley, E.J.** (2024). "Kansas-based Research on Equity-Driven Infrastructure Resilience." Invited Plenary presentation at the 74th Annual Environmental Engineering Conference, University of Kansas, Lawrence, KS, April 17, 2024.
- **Sutley, E.J.** (2024). "Developing an interdisciplinary research agenda and aligning it with long-term career aspirations." Invited Webinar, Bill Anderson Fund Spring Webinar: Developing a Research Agenda, March 5, 2024.
- **Sutley, E.J.** (2024). "Equity and Disasters." Invited Virtual Lecture, Selected Topics in Ocean and Coastal Engineering, Oregon State University, February 19, 2024.
- **Sutley, E.J.** (2024). "Incorporating Long-term Housing Recovery Models into R2D Workflows." Invited Session Presentation at the NHERI Computational Symposium, Los Angeles, CA, February 2, 2024.
- **Sutley, E.J.** (2024). "A Computational Workflow for Predicting Long-term Housing Recovery." Invited Plenary at the NHERI Computational Symposium, Los Angeles, CA, February 1, 2024.
- **Sutley, E.J.** (2023). "How Social Scientists Research Social Impacts of Climate Change." Invited Lecture, Haskell Environmental Research Studies Program, University of Kansas, Lawrence, Kansas, June 7, 2023.

- **Sutley, E.J.** (2023). "Coupling Damage Reconnaissance with Wind Tunnel Data for New Load Provisions in ASCE 7." Invited Virtual Lecture, Building Damage Assessment from Extreme Events mini lecture series, Oregon State University, May 19, 2023.
- **Sutley, E.J.** (2023). "Getting a residential building LEED certified." Invited Professional Development Lecture, Johnson County Spring Education Conference, Johnson County Contractors Association, Overland Park, KS, March 27, 2023.
- **Sutley, E.J.** (2022). "Post-disaster school loss and homeless K-12 students: the importance of interdisciplinarity and community engagement in community disaster resilience." Invited ASCE Tech Talks, November 16, 2022.
- **Sutley, E.J.** (2022). "How Social Scientists Research Social Impacts of Climate Change." Invited Lecture, Haskell Environmental Research Studies Program, University of Kansas, Lawrence, Kansas, June 8, 2022.
- **Sutley, E.J.** (2022). "Addressing pre- and post-disaster housing disparities through interdisciplinary research." Invited Lecture, Geography and Atmospheric Science Colloquium Series, University of Kansas, Lawrence, Kansas, March 4, 2022.
- **Sutley, E.J.** (2022). "Engaged Community Disaster Resilience Research." Invited virtual presentation to the session Community Collaborations to Address Global Issues, at the KU Summit on Community-engaged Learning and Scholarship, Lawrence, Kansas, January 13, 2022.
- **Sutley, E.J.** (2021). "The Role of Social Equity in Community Disaster Resilience." Invited Virtual Lecture, American Red Cross Greater Kansas City Area Chapter, Lunch & Learn, November 17, 2021.
- **Sutley, E.J.** (2021). "Resilience". Invited Virtual Lecture, Rotary Club Lawrence, Kansas Chapter Meeting, May 20, 2021.
- **Sutley, E.J.** (2020). "Learning from Disaster: A Case Study of the May 28, 2019 Tornado in Linwood, KS." Invited Virtual Lecture, Ocean, Sustainability, Atmosphere Colloquium, Stony Brook University, October 2, 2020.
- **Sutley, E.J.** (2020). "The Lumberton, North Carolina Flood of 2016: An Interdisciplinary Approach to Community Resilience Focused Technical Investigation." Invited Virtual Lecture, Resilience Engineering, Oregon State University, May 13, 2020.
- **Sutley, E.J.** (2020). "Learning from the May 28, 2019 EF4 Linwood, KS Tornado, and Examining Adoption Potential of Above-Code Performance for Residential Buildings." Professional Development Seminar, Black & Veatch, Kansas City, Missouri, March 2, 2020.
- **Sutley, E.J.** (2020). "Learning from Disaster." Planet Expo, University of Kansas, Engineering Expo, Lawrence, Kansas, February 24, 2020.
- **Sutley, E.J.** (2019). "Providing a Continuous Load Path to Light Frame Wood One- and Two-Story Dwellings." Invited Lecture, Lawrence Homebuilders Association, Douglas County, Kansas, November 19, 2019.
- **Sutley, E.J.** and Sharma, P. (2019). "Impacts of the 2019 Linwood, KS Tornado." Invited Presentation, Engineers Club of Kansas City, Kansas City, Missouri, September 9, 2019.

- **Sutley, E.J.** (2019). "Infusing Community Disaster Resilience Research with Care and Well-Being." *Red Hot Research @ The Commons*, University of Kansas, Lawrence, Kansas, September 6, 2019.
- **Sutley, E.J.** (2019). "Convergence Research to Redesign the Building Code for Sustained Community Functionality." Invited Presentation, 2019 Researchers Meeting, International Research Committee on Disasters and the Natural Hazards Center, Broomfield, Colorado, July 17, 2019.
- **Sutley, E.J.** (2019). "Impacts of the 2019 Linwood, KS Tornado." Invited Presentation, Society of American Military Engineers (SAME) Kansas City, Kansas City, Missouri, June 20, 2019.
- **Sutley, E.J.** (2019). "An Overview of the Longitudinal Community Resilience Study of Lumberton, North Carolina following 2016 Hurricane Matthew", Invited Presentation, ASCE Eastern Branch Meeting, Raleigh, North Carolina, April 16, 2019.
- **Sutley, E.J.** (2019). "Ending the Bias in Disaster Mitigation." Invited Seminar, University of Colorado Boulder, Boulder, Colorado, March 22, 2019.
- **Sutley, E.J.** (2019). "Matthew, Florence and Michael: Multi-Disciplinary Research on Recent Hurricane Disasters," Invited Keynote Presentation, *64th Annual Structural Engineering Conference*, University of Kansas, Lawrence, Kansas, March 7, 2019.
- **Sutley, E.J.** (2019). "Interdisciplinary Recovery Modeling for Community Disaster Resilience," Invited Seminar, Purdue University, West Lafayette, Indiana, February 26, 2019.
- **Sutley, E.J.** (2019). "New Wind Loads for Elevated Buildings, and Other Findings from Recent Hurricane Investigations", Professional Development Seminar, Burns & McDonnell, Kansas City, Missouri, February 4, 2019.
- **Sutley, E.J.** (2018). "Incorporating Social Science into Engineering for Community-Level Disaster Resilience." EERI Distinguished Lecture Series, Invited Seminar, University of Texas, Austin, Texas, July 26, 2018.
- **Sutley, E. J.** and Hamideh, S. (2017). "What Causes Housing Recovery." Invited Presentation at the *2nd International Workshop on Modeling Physical, Economic, and Social Systems for Resilience Assessment*, Ispra, Italy, December 15, 2017.
- **Sutley, E.J.** (2017). "Post-Disaster Housing Recovery: An Integrated Engineering and Social Science Perspective." Invited Seminar, University of Massachusetts, Amherst, Massachusetts, April 14, 2017.
- **Sutley, E.J.** (2017). "Protecting your Home from Natural Disasters: New Construction and Retrofit", Professional Development Seminar, Burns & McDonnell, Kansas City, Missouri, April 10, 2017.
- **Sutley, E.J.** (2016). "Post-Disaster Housing Recovery: An Integrated Engineering and Social Science Perspective." Invited Seminar, Colorado School of Mines, Golden, Colorado, September 9, 2016.
- **Sutley, E.J.** (2016). "Preventing Natural Hazards from Becoming Natural Disasters", Professional Development Seminar, Burns & McDonnell, Kansas City, Missouri, April 11, 2016.
- **Sutley, E. J.** (2016). "Community Resilience." Invited Presentation at *Red Hot Research at The Commons*, University of Kansas, Lawrence, Kansas, January 29, 2016.

- **Sutley, E. J.** (2015). "Interdisciplinary Work." Invited Presentation at Society of Women in Design Student Group Meeting, University of Kansas, Lawrence, Kansas, November 17, 2015.

Presentations

- **Sutley, E.J.** (2025). "Disproportionate Performance of Non-Engineered Buildings." As part of the session Natural Hazards Engineering Research focused on Protecting Public, Health, Safety, and Welfare, *Structures Congress*, Phoenix, Arizona, April 10, 2025.
- **Sutley, E.J.** (2025). "Key policy initiatives for sustainable structural engineering." As part of the session Towards Zero Carbon: A Roadmap for the Structural Engineering Profession, *Structures Congress*, Phoenix, Arizona, April 10, 2025.
- **Sutley, E.J.** (2024). "Leveraging interdisciplinary research and community engagement to advance equity and resilience." As part of the session Equitable Solutions for Resilient Communities, United Nations Science Summit, Virtual, September 17, 2024.
- **Sutley, E.J.** (2022). "COVID-19 Impact and Adaptation of a Longitudinal Study." Plenary Session "Back to the Field? Hazards and Disasters Research Following the Pandemic" at the 2022 *Researchers Meeting*, International Research Committee on Disasters and the Natural Hazards Center, Virtual, July 13, 2022.
- **Sutley, E.J.** (2022). "Power, Water, and Access: Examining equity in Lifeline Restoration Rates after Successive Floods." *Lifelines Conference*, Virtual, January 20, 2022.
- **Sutley, E.J.** (2021). "Measuring Community Capitals." *International Conference on Sustainable Infrastructure 2021*, Virtual, December 6, 2021.
- **Sutley, E.J.** (2021). "Tracking Housing Recovery through two Hurricanes and a Pandemic in Lumberton, NC." 2021 *Researchers Meeting*, International Research Committee on Disasters and the Natural Hazards Center, Virtual, July 15, 2021.
- **Sutley, E.J.**, and Crawford, P.S. (2021). "Measurement Challenges Encountered Through the Longitudinal Study of Lumberton, North Carolina." 2021 *Researchers Meeting*, International Research Committee on Disasters and the Natural Hazards Center, Virtual, July 15, 2021.
- **Sutley, E.J.** (2021). "Longitudinal Housing Recovery in Lumberton, NC after Hurricanes Matthew and Florence." 2021 *Carolinas Climate Resilience Conference*, Columbia, South Carolina, Virtual, May 12, 2021.
- **Sutley, E.J.** (2020). "Enhancing Community Resilience through the Built Environment: Linking Buildings and Organizations". *ResilienceWeek 2020*, Virtual, October 23, 2020.
- **Sutley, E.J.**, and Kim, J. (2020). "How to Characterize Rural Resilience when your Sample Posts KEEP OUT Signs." 2020 *Researchers Meeting*, International Research Committee on Disasters and the Natural Hazards Center, Virtual, July 16, 2020.
- **Sutley, E.J.** (2020). "Predicting the Sequence and Duration of Post-Hurricane Housing Stages for Equitable Recovery Resource Allocation." *Gulf of Mexico Oil Spill and Ecosystem Science Conference*, Tampa, Florida, February 6, 2020.
- **Sutley, E.J.**, Lequesne, R., Kim, J., Kirkham, W., and Clements, J. (2019). "Leveraging Recent Post-Tornado Damage Findings to Evaluate Kansas Tornado Vulnerability." *THWARTS: Tornado*

Hazard Wind Assessment and ReducTion Symposium, Urbana-Champaign, Illinois, October 15, 2019.

- **Sutley, E.J.**, Hamideh, S., Dillard, M.K., Gu, D., Seong, K., and van de Lindt, J.W. (2019). "Integrative Modeling of Housing Recovery as a Physical, Economic, and Social Process." *13th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP13*, Seoul, South Korea, May 28, 2019.
- Collins, W., and **Sutley, E.J.** (2019). "Peer Mentoring for All: Extending the Benefits of Peer Mentoring to More Students." *Engineering Teaching Workshop*, University of Kansas, Lawrence, Kansas, April 18, 2019.
- **Sutley, E.J.** (2018). "Housing Data Collection and Results: Combining Engineering and Socio Science Assessments." *2018 Carolinas Climate Resilience Conference*, Columbia, South Carolina, October 29, 2018.
- **Sutley, E.J.** (2018). "Connecting Physical with Socio-Economics – An Interdisciplinary Approach to Research, Education, and Design." *ASCE 2018 Convention*, Denver, Colorado, October 15, 2018.
- **Sutley, E.J.**, Tomiczek, T., Dillard, M., Koliou, M., Deniz, D., Hamideh, S., van de Lindt, J., Mitrani-Reiser, J., Barbosa, A., Watson, M., Xiao, Y., and Helgeson, J. (2018). "The Role of the Interior in Accurately Classifying Flood Damage to Homes and Businesses." *2018 Researchers Meeting*, International Research Committee on Disasters and the Natural Hazards Center, Broomfield, Colorado, July 11, 2018.
- **Sutley, E.J.**, Green, R., Stark, N., Johnson, E., Kargarmoakhar, R., Elsharawy, M., Athanasopoulos-Zekkos, A., Malley, J., and Ritchie, L. (2018). "Introduction to the NHERI User Forum." *11th National Conference on Earthquake Engineering*, Los Angeles, California, June 27, 2018.
- **Sutley, E.J.**, and Srubar, W. (2018). "Quantifying Social, Economic, and Environmental Sustainability of Disaster Policies." *11th National Conference on Earthquake Engineering*, Los Angeles, California, June 28, 2018.
- **Sutley, E.J.**, and Fedders, E. (2018). "Quantifying the Importance of Social Infrastructure in Community Resilience using Social Capital." *2018 SEI Structures Congress*, Fort Worth, Texas, April 21, 2018.
- **Sutley, E.J.**, and Srubar, W. (2018). "A Framework for Quantifying Social, Economic, and Environmental Sustainability of Hazard Mitigation Policies." *2018 SEI Structures Congress*, Fort Worth, Texas, April 21, 2018.
- **Sutley, E.J.**, and Hamideh, S. (2016). "Post-Disaster Housing Recovery." *American Planning Association, Kansas Chapter Conference*, Lawrence, Kansas, October 5, 2016.
- **Sutley, E.J.**, and Hamideh, S. (2016). "A Community Model for Residential Sector Recovery: An Integrated Engineering and Social Science Perspective." *1st International Workshop on Resilience*, Torino, Italy, September 22, 2016.

- **Sutley, E. J.**, and van de Lindt, J.W. (2016). "Evolution of Predicted Seismic Risk of Low-Rise Woodframe Buildings." *Geotechnical and Structural Engineering Congress*, Phoenix, Arizona, February 15, 2016.
- **Jennings¹, E.**, van de Lindt, J.W., and Peek, L. (2015). "Multi-Objective Community-Level Seismic Retrofit Optimization for Resiliency using Engineering and Socioeconomic Variables." *12th International Conference on Applications of Statistics and Probability in Civil Engineering*, Vancouver, Canada, July 13, 2015.
- **Jennings¹, E.**, van de Lindt, J.W., Shao, X., Pang, W., and Ziaei, E. (2014). "Full-Scale Hybrid Testing of a Soft-Story Woodframe Building Seismically Retrofitted Using Shape Memory Alloy Devices in Scissor-Jack Braces." *Tenth U.S. National Conference on Earthquake Engineering. Frontiers of Earthquake Engineering*, Anchorage, Alaska, July 22, 2014.
- **Jennings¹, E.**, van de Lindt, J.W., and Peek, L. (2014). "Multi-Objective Optimization Approach for Decision-Making: Considering Engineering and Social Variables for Community Level Resilience." *Third International Conference on Urban Disaster Reduction*, Boulder, Colorado, September 30, 2014.
- **Jennings¹, E.**, and van de Lindt, J.W. (2013). "Low Cost Shape Memory Alloy Devices for Seismic Response Modification of Light-Frame Wood Buildings." *Structures Congress*, Boston, Massachusetts, May 3, 2013.
- **Jennings¹, E.**, and van de Lindt, J.W. (2012). "Shape Memory Alloy Dampers for Response Modification of Light-Frame Wood Buildings." *15th World Conference on Earthquake Engineering*, Lisboa, Portugal, September 28, 2012.

RESEARCH AND EDUCATION GRANTS

Principal Investigator unless noted otherwise.

Externally Funded

- "RAPID: Fundamental Behavior of Manufactured Homes under Windstorms through Full-scale Experimentation and Numerical Modeling." Funded for \$200,000 from the National Science Foundation, Grant No. 2530765. Project Duration: October 2025 – September 2026. PI with Co-PIs W. Collins, T. Dao (UA), A. Chowdhury (FIU), I. Zisis (FIU).
- "NSF Engineering Research Center for Environmentally Applied Refrigerant Technology Hub (EARTH)." Funded for \$26,000,000 from the National Science Foundation. Project Duration: September 2024 – August 2028. SP with PI M. Shifflett, Co-PIs J. Schaefer (ND), R. Kaiser (UH), D. Agonafer (UM), and D. Vicić (Lehigh).
- "Hurricane Loss Reduction for Housing in Florida, Phase IV." Funded for \$30,000 from the Florida Division of Emergency Management. Project Duration: July 2024 – June 2025. PI with Co-PI W. Collins.
- "Safe Room Sheltering in Kansas Manufactured Housing Communities: A Behavioral Economic Analysis." Funded for \$15,000 from the Tornado Ready Research Program of the Natural Hazards Center. Project Duration: September 2024 – March 2025 (Estimated). Co-PI with PI Graham and Co-PI Gelino.

- “NSF-NFRF: Retreating from risk (RFR): Decision-supports for the equitable implementation of retreat to build climate resilience.” Funded for \$650,910 from the National Science Foundation, Grant No. 2428674. Project Duration: September 2024 – August 2027 (Estimated). PI with Co-PI Hamideh (SBU) and Nejat (TTU).
- “Planning: Mid-scale Research Infrastructure Community-scale Testbeds to Accelerate Climate Adaptation and Disaster Reduction Research.” Funded for \$12,941 subaward from Stony Brook University as part of \$100,000 funded from the National Science Foundation, Grant No. 2414769. Project Duration: June 2024 – May 2025 (Estimated). Co-PI with PI Hamideh (SBU), and Co-PIs Bridge (UF) and Cox (OSU).
- “Hurricane Loss Reduction for Housing in Florida, Phase III.” Funded for \$51,047 from the Florida Division of Emergency Management. Project Duration: January 2024 – June 2024. PI with Co-PI W. Collins.
- “Sloan Indigenous Graduate Partnership.” Funded for \$245,920 from the Alfred P. Sloan Foundation. Project Duration: July 2024 – June 2028 (Estimated). Co-PI with PI J. Brewer, and Co-PIs J. Johnson, P. Cartwright, M. Adams, and J. Good Fox.
- “Hispanic Serving Institution Center of Excellence for Climate Resilient and Equitable Housing (CECREH).” Funded for \$111,535.15 subcontract to the University of Kansas; \$3,200,000 total award amount to Texas Tech University from the U.S. Department of Housing and Urban Development, Grant No. 1023993016. Project Duration: September 2023 – August 2027 (Estimated).
- “Data and design needs for improving the wildfire and flood resistance of manufactured housing.” Funded for \$127,076 from Headwaters Economics. Project Duration: August 2023 – August 2024.
- “Enhancing DEI through rich, street level data: Using stories to reveal gaps and alignment between stated goals and student experience.” Funded for \$60,000 by the Kansas Space Grant Consortium of the National Aeronautics & Space Administration in Kansas with an additional \$21,000 match from University of Kansas, Grant No. 80NSSC20M0109. Project Duration: September 2023 – May 2024. Co-PI with PI C. Chow.
- “Understanding Hurricane Effects on Manufactured Homes, Phase II.” Funded for \$67,494 from the Florida Division of Emergency Management. Project Duration: January 2023 – June 2023. PI with Co-PI W. Collins.
- “RII Track-1: Adaptive and Resilient Infrastructures driven by Social Equity (ARISE).” Funded for \$20,000,000 from the Established Program to Stimulate Competitive Research (EPSCoR) Program within the National Science Foundation and \$4,000,000 from the State of Kansas, Grant No. 2148878. Sutley is PI on \$3,856,124. Project Duration: June 2022 – May 2027 (Estimated). Co-PI with PI B. Sturm during Y1-Y4; Sutley as NSF project PI over full award amount in Y5.
 - REI Award, “Disaster Experiences and Response to Severe Winter Storms, Tornadoes and Wildfires”, \$21,737, May 2026 – Aug. 2026.
 - REI Award, “Behavioral Experiments to Assess Behavioral Intentions of Kansas Residents”, \$13,500, Nov. 2025 – May 2027.
 - REI Award, “Quantify Voluntary Load Reduction to Enhance System Resilience for Resource Adequacy Events”, \$3,000, Nov. 2025 – May 2027.
- “Sloan Indigenous Graduate Partnership Seed Grant.” Funded for \$500,000 from the Alfred P. Sloan Foundation. Project Duration: January 2022 – August 2024. Co-PI with PI J. Brewer, and Co-PIs J. Johnson, P. Cartwright, and J. Good Fox.

- “Understanding Hurricane Effects on Manufactured Homes, Phase I.” Funded for \$63,394 from the Florida Division of Emergency Management. Project Duration February 2022 – June 2022. PI with Co-PI W. Collins.
- “Tornado Risk Perception Data, Instruments and Protocols: Survey of Contractors and KU Campus Community,” Funded for \$1,250 from the Weather Ready Research Program of the Natural Hazards Center. Project Duration May 2021 – October 2021. Co-PI with PI: Ram Krishna Mazumder.
- “Household Impact and Recovery Data, Instruments and Protocols: A Longitudinal investigation after the May 28, 2019 EF4 Linwood, Kansas Tornado,” Funded for \$2,500 from the Weather Ready Research Program of the Natural Hazards Center. Project Duration May 2021 – October 2021. Co-PI with PI: Ram Krishna Mazumder.
- “Research on Research (ROR),” Funded for \$500 to the University of Kansas; \$1,000 total award from COVID-19 Working Groups for Public Health and Social Sciences Research from NSF NHERI CONVERGE. Project Duration May 2020 – April 2022.
- “Center for Risk-Based Community Resilience Planning,” Funded for \$367,889 subcontract to the University of Kansas; \$20,000,000 total award amount to Colorado State University from the Community Resilience Group within National Institute of Standards and Technology (NIST), Grant No. 70NANB20H008. Project Duration: February 2020 – June 2025 (Estimated).
- “Community Resilience Support Services IDIQ,” Funded for \$14,000 to date subcontracted to the University of Kansas; contract and task orders awarded to AECOM from the Community Resilience Group within the National Institute of Standards and Technology (NIST). Project Duration: September 2019 – August 2021.
- Early Career Research Fellowship, Funded for \$76,000 from the Gulf Research Program of the National Academies of Science, Engineering, and Medicine, Grant No. 2000010686. Project Duration: September 2019 – August 2021.
- “Assessing the Influence of Hazard Mitigation Planning on Disaster Recovery,” Funded for \$399,808 from the Humans, Disasters, and the Built Environment (HDBE) Program within the National Science Foundation, Grant No. 1760183. Project Duration: March 2019 – February 2023. Co-PI with PI: W. Lyles.
- “CAREER: Assessing the Role of Buildings and Organizations in Community Disaster Resilience,” Funded for \$757,172, including \$24,000 Research Experience for Undergraduates Supplement and \$24,907 Career Life Balance Supplement, and \$208,265 Creative Extension Supplement from the Humans, Disasters, and the Built Environment (HDBE) Program within the National Science Foundation, Grant No. 1847373. Project Duration: February 2019 – January 2027 (Estimated).
- “RAPID: Assessing the Performance of Elevated Wood Buildings, including Manufactured Housing, in Florida during 2018 Hurricane Michael”, Funded for \$44,615 from the Engineering for Civil Infrastructure (ECI) Program within the National Science Foundation, Grant No. 1903486. Project Duration: December 2018 – November 2020.
- “Collaborative Research: Filling in the Central Himalayan Seismic Gap: A Structural, Neotectonic, and Paleoseismic Investigation of the Western Nepal Fault System”, Funded for \$371,053 to the University of Kansas from the Prediction of and Resilience against Extreme Events (PREEVENTS) and Tectonics Programs within the National Science Foundation, Grant No.

1827866. Project Duration: August 2018 – July 2024. Co-PI with PI: M. Taylor; Co-PI: Richard Styron.

- “Analytical Investigation of Saddle Connections for Overhead Sign Trusses with Respect to Strength and Fatigue Performance,” Funded for \$47,405 from the Kansas Department of Transportation. Project Duration: July 2017 – June 2019. Co-PI with PI: J. Li; Co-PI: C. Bennett; Co-PI: W. Collins; Co-PI: M. Fadden.
- “Development of an Automated Bridge Inspection Methodology using Digital Image Correlation,” Funded for \$168,258 by the Mid-America Transportation Center (MATC). Project Duration: August 2017 – July 2019. Co-PI with PI: W. Collins; Co-PI: J. Li; Co-PI: C. Bennett.
- “Exploring the Factors Influencing Property Value Changes and Neighborhood Health in Johnson County Kansas,” Funded for \$39,746 from Johnson County, Kansas. Project Duration: June 2016 – May 2017. Co-PI with PI: T. Lei; Co-PI: A. Ho; Co-PI: J. Fowles; Co-PI: A. Kondyli.
- “Determination of Fatigue Resistance of Coupler Connection in Aluminum Overhead Truss Sign Supports,” Funded for \$144,846 from the Kansas Department of Transportation. Project Duration: October 2015 – March 2019. Co-PI with PI: C. Bennett; Co-PI: W. Collins; Co-PI: J. Li; Co-PI: M. Fadden.
- “Center for Risk-Based Community Resilience Planning,” Funded for \$60,000 subcontract to the University of Kansas with an additional \$17,000 in travel reimbursement support; \$20,000,000 total award amount to Colorado State University from the Community Resilience Group within National Institute of Standards and Technology (NIST), Grant No. 70NANB15H044. Project Duration: February 2015 – January 2020.

Internally Funded

- “Evaluating the Racial Equity of Flooding Hazards in the Kansas City Metropolitan Area”, Funded for \$19,607 from the Racial Equity Research Initiative at the University of Kansas. Project Duration: January 2022 – December 2024. Co-PI with PI: A. Husic.
- “Benchmarks for Teaching Effectiveness”, Funded for \$5,000 from the Center for Teaching Excellence, University of Kansas, as part of the National Science Foundation-funded TeVAL Project. Project Duration: January 2020 – December 2020. Co-PI with PI: R. Parsons; Co-PI R. Lequesne; Co-PI: B. Lines; Co-PI: A. Kondyli; Co-PI: J. Roundy; Co-PI: C. Bennett.
- “TRESTLE Course Transformation Grant for CE 461 Structural Analysis”, Funded for \$1,500 from the Center for Teaching Excellence, University of Kansas as part of the National Science Foundation-funded TRESTLE Project. Project Duration: October 2019 – September 2020. Co-PI with PI: J. Li.
- Stipend for One Emerging Scholar, Funded for \$500 from Center for Undergraduate Research, University of Kansas. August 2018 – May 2019.
- “TRESTLE Course Transformation Grant for CE 461 Structural Analysis”, Funded for \$1,500 from the Center for Teaching Excellence, University of Kansas as part of the National Science Foundation-funded TRESTLE Project. Project Duration: October 2018 – September 2019. Co-PI: J. Li.
- “Empirically-Based Post-Disaster Housing Recovery Model”, Funded for \$8,294 from the General Research Fund Award, Grant No. 2225802, University of Kansas. Project Duration: July 2018 – June 2019.

- Stipend for Three Emerging Scholars, Funded for \$1,500 from Center for Undergraduate Research, University of Kansas. August 2017 – May 2018.
- Stipend for One Emerging Scholar, Funded for \$500 from Center for Undergraduate Research, University of Kansas. August 2016 – May 2017.
- “A Holistic Approach for Promoting Residential Sustainability”, Funded for \$7,997 from the New Faculty General Research Fund Award, Grant No. 2302085, University of Kansas. Project Duration: July 2016 – June 2017.

CONSULTANT WORK

- “ATC-179 Project: Building Resilience Infrastructure and Communities (BRIC) Mobile Home Project.” Funded for \$10,600 from the Applied Technology Council through a California Office of Emergency Services contract. Project Duration April 2026-October 2027, Subject Matter Expert.
- “ATC-176 Project: Post-earthquake data collection procedures for Functional Recovery.” Funded for \$16,000 from the Applied Technology Council through a National Institute of Standards and Technology contract. Project Duration January 2026-October 2027, Project Technical Director.
- “ATC-137-8 Project: Identifying best practices for Direct Temporary Housing installation of Manufactured Homes and Travel Trailers.” Funded for \$11,520 from the Applied Technology Council through a Federal Emergency Management Agency contract. Project Duration January 2025-December 2025, Subject Matter Expert.
- “ATC-137-7 Project: Identifying best practices for Direct Temporary Housing installation of Manufactured Homes and Travel Trailers.” Funded for \$11,520 from the Applied Technology Council through a Federal Emergency Management Agency contract. Project Duration September 2023-September 2024, Subject Matter Expert.
- “ATC-137-6 Project: Identifying best practices for Direct Temporary Housing installation of Manufactured Homes and Travel Trailers.” Funded for \$10,918 from the Applied Technology Council through a Federal Emergency Management Agency contract. Project Duration June 2023-September 2023, Subject Matter Expert.

CHAIRPERSON

Postdoctoral Researchers – 3 complete (2 ongoing)

Enderami, S. Amin, December 2022 – December 2024, University of Kansas
Current Position: Homes Services Analyst, SageSure, Jersey City, New Jersey

Mazumder, Ram, August 2020 – August 2022, University of Kansas
Current Position: Asset Management Engineering Consultant, Arcadis, Akron, Ohio

Kim, Jae, August 2020 – May 2021, University of Kansas
Current Position: Structural Engineer, WSP in Canada, Toronto, Canada

Doctor of Philosophy Students – 3 graduated (7 ongoing)

Madison, G., Fall 2025, University of Kansas, Co-Advised
Dissertation title: Evaluating Community Safe Room Sheltering in Manufactured Housing Residents using Operant Behavioral Economics
Current Position: Postdoctoral Research in Disaster HOPE Lab, University of Kansas

Enderami, S. Amin, Fall 2022, University of Kansas, Chair
Dissertation title: Functionality, Access, and Implications: Assessing the Role of Organizations in Community Disaster Resilience
Current Position: Homes Services Analyst, SageSecure, Jersey City, New Jersey

Kim, Jae, Summer 2020, University of Kansas, Chair
Dissertation title: A Societally Optimized Resource Distribution (SORD) Framework for Community Flood Recovery
Current Position: Structural Engineer, WSP in Canada, Toronto, Canada

Master's of Science Students – 9 graduated (2 ongoing)

Marquez, Pedro, Spring 2025, University of Kansas
Thesis title: Structural Performance of Manufactured Homes in Wind Zones II and III: Evaluation of Critical Load Path Connections
Current Position: Project Engineer, HDR, Chicago

Hankins, Jonathan, Spring 2024, University of Kansas
Thesis title: Wind Performance of Uplift Strap Connections for Manufactured Homes in HUD Wind Zones II and III
Current Position: Structural Engineer, Burns and McDonnell, Kansas

Badmus, Afeez, Spring 2023, University of Kansas
Thesis title: Wind Performance of Sheathing-to-Rafter Connection of HUD Wind Zone II and III Manufactured Homes
Current Position: PhD student, University of Kansas

Sullivan, Patrick, Spring 2022, University of Kansas
Thesis title: Quantifying Differential Access to FEMA Disaster Funding and Showcasing Good Mitigation Strategies to Inform Local Decision Makers
Current Position: Structural Design Engineer, LERA Consulting Structural Engineers, New York

Bhatta, Alok, Spring 2021, University of Kansas
Thesis title: Seismic Performance Characterization of Nepali School Buildings using a Novel Micro-Modeling Approach
Current Position: Structural Engineer, Charles A Manganaro Consulting Engineers, New York

Daniels, Liba, Summer 2019, University of Kansas
Thesis title: Linking Community Capital Measurements to Building Damage Estimation for Community Resilience
Current Position: Associate Structural Engineer, Collins Structural Consulting, North Carolina

Badeaux, Lauren, Spring 2018, University of Kansas
Thesis title: Sustainability and Resiliency Tradeoffs for Post-Disaster Temporary Housing
Current Position: Associate Structural Engineer, Apex Engineers, Missouri

Fedders, Eric, Spring 2018, University of Kansas
Thesis title: Building Design using CLTs and Measuring the Cultural Significance of Buildings
Current Position: Associate Structural Engineer, Thornton-Tomasetti, Missouri

Islam, Rezoana, Summer 2017, University of Kansas
Thesis title: Sustainability and Resiliency Comparison of Soft-Story Woodframe Building Retrofits
Current Position: Project Engineer, Canyons Structural Inc., Utah

Undergraduate Student Researchers – 30 complete (1 ongoing)

Nguyen, Sophia, Fall 2024 – Present, University of Kansas, Emerging Scholar Program

Sipes, Marah, Summer 2024, University of Kansas, NSF Summer REU
Tieu, Kate, Summer 2024 – Summer 2025, University of Kansas
Evans, Thomas, Spring 2024, University of Kansas
Corrigan, Ryan, Spring 2024 – Summer 2025, University of Kansas
Garcia, Mauricio, Spring 2024 – Spring 2025, University of Kansas
Sakaray, Tanushri, Fall 2023 – Spring 2025, University of Kansas
Gatapia, Nico, Fall 2023 – Spring 2024, University of Kansas
Wills, Paul, Fall 2023 – Spring 2024, University of Kansas
Olanrewaju, Ayomide, Fall 2023 – Spring 2024, University of Kansas
Kling, Dakota, Summer 2023, University of Kansas, KUEST Bridge
Klimek, Grayson, Summer 2023, University of Kansas, KUEST Bridge
Hidalgo, Tanya, Summer 2023, University of Kansas, KUEST Bridge
Greene, Ava, Spring 2023 – Spring 2024, University of Kansas
Zhang, Derek, Spring 2023 – Spring 2024, University of Kansas
Learned, Matilda, Fall 2023 – Spring 2024, University of Kansas
Coburn, Jordan, Summer 2022, University of Kansas, KUEST Bridge
Daniels, Austin, Summer 2022, University of Kansas, KUEST Bridge
Pereira, Ryan, Summer 2022, University of Kansas, KUEST Bridge
Chronister, Cyra, Summer 2022, University of Kansas
Dumler, Meredith, Spring 2019 – Spring 2022, University of Kansas
Wang, Tina, Spring 2020 – Spring 2021, University of Kansas
Caraway-Short, Lane, Fall 2019 – Spring 2023, University of Kansas, Emerging Scholars Program
Thompson, Tyler, Spring 2020 – Fall 2020, University of Kansas
Vazquez, Karen, Fall 2016 – Spring 2020, University of Kansas, Emerging Scholars Program
Phan, Nhi, Spring 2019, University of Kansas
Lipford, Chris, Fall 2018 – Spring 2019, University of Kansas
Cubero-Navarro, Miguel, Fall 2018 – Spring 2019, University of Kansas
Abdulwahed, Mahmoud, Fall 2018 – Spring 2019, University of Kansas
Smith, Michael, Fall 2018 – Spring 2019, University of Kansas
Thomason, Cory, Fall 2017 – Spring 2018, University of Kansas, Emerging Scholars Program
DeZutter, Tom, Fall 2017 – Spring 2018, University of Kansas, Emerging Scholars Program

Undergraduate Student Employees – 6 complete

Beza Mulugeta, IHAWKe Assistant, Summer – Fall 2024, University of Kansas
Daniel Williams, IHAWKe Assistant, Summer 2024, University of Kansas
Chronister, Cyra, IHAWKe Assistant, Summer 2022, University of Kansas

Martinez, Sarah, IHAWKe Assistant, Summer 2022, University of Kansas

Oduniyi, Ife, IHAWKe Assistant, Summer 2022, University of Kansas

Olguin, Jose, IHAWKe Assistant, Summer 2022, University of Kansas

TEACHING EXPERIENCE

Course Title	Semester(s) Taught	
SELF 100, SELF Freshmen Seminar	Fa26	U. Kansas
ENGR 114, SELF Senior Seminar	Fa25, Sp26	U. Kansas
CE 461, Structural Analysis	Fa15, Fa16, Fa17, Fa18, Fa19, Fa20, Fa21, Fa22, Fa23, Fa25	U. Kansas
CE 768, Design of Timber Structures	Sp16, Sp17, Sp18, Sp19, Sp20, Sp22, Sp25	U. Kansas
CE 895, Sustainable and Resilient Structures / Principles of Sustainability and Resilience	Fa17, Fa18, Sp24	U. Kansas
CE 891, Performance Based Seismic Design of Mid-Rise Wood Buildings	Sp19	U. Kansas
CE 490, Environmental Sustainability and Community Resilience	Su17	U. Kansas
CE 991, Community Resilience	Sp16	U. Kansas
CIVE 367, Structural Analysis	Sp15	Colorado State U.

SERVICE

Conference Organizing

- Technical Director, ASCE Infrastructure Resilience Roadmap Workshop, Reston, VA, September 14-15, 2026.
- Organizing Committee, NHERI Computational Symposium, Berkeley, California, May 25-26, 2026.
- Program Committee, Hazard Resilience for an Integrated World: Buildings, Infrastructure, and People, AEI | IRD 2026 Conference, San Antonio, Texas, March 18-20, 2026.
- Scientific Committee, 15th Americas Conference on Wind Engineering (ACWE), St. Louis, Missouri, May 19-22, 2025
- Organizing Committee and Session Chair, NHERI Computational Symposium, Los Angeles, California, February 6-7, 2025
- Co-organizer and Session Chair, Long Term Community Resilience Research Infrastructure Workshop, National Science Foundation, Arlington, Virginia, October 3-4, 2024.
- Steering Committee, Achieving Net-Zero Embodied Carbon in Sustainable Structural Design: A Roadmap for the Structural Engineering Institute, ASCE, Northeastern University, Boston, Massachusetts, July 22-24, 2024.

- Scientific Committee, 14th Americas Conference on Wind Engineering (ACWE), Lubbock, Texas, May 17-19, 2022
- Organizing Committee, ResilienceWeek 2020, Salt Lake City, Utah, October 19-22, 2020
- Organizing Committee, International Research Committee on Disasters Researchers Meeting, Broomfield, Colorado, July 11-12, 2018

Conference Session Organizing, Moderating, Panels

- Session Organizer, Humans, Behaviors, and Decision-Making in Disaster Simulations, NHERI Computational Symposium, University of California Los Angeles, Los Angeles, California, May 2026.
- Session Organizer, Post-disaster: Data Collection and System Recovery, NHERI Computational Symposium, University of California Los Angeles, Los Angeles, California, May 2026.
- Panelist, “Enhanced Capabilities of R2D for Regional Disaster Risk Analysis”, SimCenter Community Roundtable, Organized by Working Group on Socio-Economic Impact and Recovery, Virtual, December 4, 2025.
- Session Organizing Chair, Understanding the need for fundamental research - interdisciplinary computational research and community engagement, 7th Global Alliance Disaster Research Institutes (GADRI), Colorado State University, Fort Collins, Colorado, July 21-23, 2025.
- Session Organizing Co-Chair, Convergence Approaches in Research and Implementations, 7th Global Alliance Disaster Research Institutes (GADRI), Colorado State University, Fort Collins, Colorado, July 21-23, 2025.
- Panelist, “Regional Earthquake Testbeds: Advancing Data and Models”, SimCenter Community Roundtable, Organized by Working Group on Regional Earthquake Simulations, Virtual, April 15, 2025.
- Moderator and Session Organizer, Integrating Social and Economic Elements into Resilience Analysis, NHERI Computational Symposium, University of California Los Angeles, Los Angeles, California, February 2025.
- Panelist, “Housing Recovery Modeling”, SimCenter Community Roundtable, Organized by Working Group on Regional Earthquake Simulations, Virtual, January 22, 2025.
- Moderator, Policy, Advocacy and the Public breakout session, Achieving Net-Zero Embodied Carbon in Sustainable Structural Design: A Roadmap for the Structural Engineering Institute, ASCE, Northeastern University, Boston, Massachusetts, July 2024.
- Panelist, Shared-use Research Infrastructure Roundtable, Researchers Meeting, Broomfield, Colorado, July 2024
- Panelist, Safe Havens: Ensuring Housing Recovery for Those At-Risk, Natural Hazards Workshop, Broomfield, Colorado, July 2024
- Panelist, Building Your Professional Brand: The Importance of Networking and Establishing a Research Story, Natural Hazards Research Summit 2024, College Park, Maryland, May 2024.
- Panelist, New Build or Retrofit – education (and education) of the structural engineering profession about JEDI, NASCC The Steel Conference 2024, San Antonio, Texas, March 2024
- Panelist, Engaging the Next Generation of Engineers, NASCC The Steel Conference 2024, San Antonio, Texas, March 2024
- Panelist, The Social Dimensions of Infrastructure and Building Codes, 2023 Natural Hazards Workshop, Broomfield, Colorado, July 2023
- Panelist, Race, Place, and Infrastructure: Building with Equity in Mind, 2022 Natural Hazards Workshop, Virtual, July 2022
- Organizer, Meet the Leaders Breakfast, Structures Congress 2022, Atlanta, Georgia, April 2022
- Panelist, NSF Interdisciplinary CAREER Award Panel, NHERI Summer Institute, Virtual, June 2021

- Reviewer, ASCE International Conference on Sustainable Infrastructure (ICSI 2021), Virtual, Summer 2021
- Moderator, Invited Session, Resilience Metrics and Social Equity, ResilienceWeek 2020, Virtual, October 2020
- Moderator, Invited Session, Interdisciplinary Resilience Science, ResilienceWeek 2020, Virtual, October 2020
- Moderator, Invited Session, Modeling the Disaster Timeline, ResilienceWeek 2020, Virtual, October 2020
- Panelist, Infrastructure and Climate Change, Hosted and Moderated by U.S. Kansas Representative Sharice Davids, Overland Park, Kansas, February 2020.
- Panelist, Cases of Convergence in Action, 2019 Natural Hazards Workshop, Broomfield, Colorado, July 2019
- Organizer and Moderator, Invited Session on Interdisciplinary Research, Disasters Researchers Meeting, Natural Hazards Center, Broomfield, Colorado, July 2019
- Panelist, CAREER proposal writing, NHERI Summer Institute, San Antonio, TX, June 2019
- Organizer and Panel Moderator, Hurricane Engineering: Past, Present, and Future, Structures Congress, Orlando, Florida, April 2019
- Organizer and Moderator, Recent Efforts in Hurricane Engineering: Assessment, Mitigation and Recovery, Structures Congress, Orlando, Florida, April 2019
- Moderator, Data Driven Science, An International Workshop to Develop Research Campaigns, Interdisciplinary Teams and Disruptive Technologies for the NHERI 5- Year Science Plan for Natural Hazards, March 2019
- Panelist, Resilience and Recovery: A Case Study of the 2016 Lumberton, NC Flood, 2018 Carolinas Climate Resilience Conference, Columbia, South Carolina, October 2018.
- Panelist, Career Development Webinar, NHERI REU Program, July 2018
- Panelist, How Mandatory Building Retrofits Impact Resilience of Communities, SEI Structures Congress, Fort Worth, Texas, April 2018
- Moderator, Integrated Engineering and Social Science Approaches to Disaster Resilience Structures, SEI Structures Congress, Fort Worth, Texas, April 2018
- Panelist, Keeping Count: Deaths, Damages, and Dollars Lost from Disasters, 2017 Natural Hazards Workshop, Broomfield, Colorado, July 2017
- Moderator, Building Resilient Communities: Including Sociological Impacts in Engineering Practice, SEI Structures Congress, Denver, Colorado, May 2017

International Community

- Committee member, Lianyan Li Dissertation Committee, University of Auckland, New Zealand, 2025
- Committee member, Catalina Miranda Dissertation Committee, University of Auckland, New Zealand, 2023

National Community

- Guest Editor, Special Issue: Multi-Dimensional and Interdisciplinary Disaster Resilience Monitoring, Journal of Disaster Prevention and Resilience, OAE, February 2024 – February 2025
- Review Panelist, U.S. Department of Urban Development Site Planning Disaster Mitigation Guidebook, January 2022 – October 2023

State and Local Community

- Panelist, Career Path Panel, Young Engineers' Roundtable, Kansas Society of Professional Engineers, Olathe, Kansas, June 22, 2023

- Member, Advisory Committee, Kansas City Kansas Public Schools Career and Technical Education, October 2021 – Present
- Planning Committee Member, Gingerbread House Auction Fundraising Event, Big Brothers Big Sisters of Douglas County, July 2017 – January 2018
- Volunteer and STEM Mentor, Boys & Girls Club of American, Fort Collins, Colorado, 2014

University

- Moderator, Gaps in the Field panel, AI & Data Sovereignty Across the Southern Plains, March 3, 2026
- Member, Scholarly Achievement Awards Selection Committee, University of Kansas, December 2025-Present
- Member, Innovation Hub Design Advisory Committee, School of Business, University of Kansas, August 2025-Present
- Member, Steering Committee, Kirkendall Awards Program, School of Business, University of Kansas, February 2025-Present
- Impact Advisor for School of Engineering, University of Kansas, August 2024-Present
- Member, Faculty Development Advisory Board, KU Office of Faculty Affairs, February 2024-May 2025
- Member, Vice Provost for Faculty Affairs Search Committee, KU Office of Faculty Affairs, April 2023-June 2023
- Member, Director of Industry Partnerships Search Committee, KU Office of Research, June 2022-September 2022
- Member, Education Program Coordinator for Indigenous Students in STEM Search Committee, Sloan Indigenous Graduate Partnership, April 2022-June 2022
- Member and Diversity Advisor, Associate Vice Chancellor for Research Search Committee, KU Office of Research, April 2022-June 2022
- Taskforce to Advance KU Relationships with Minority-Serving Institutions in the STEM Fields, February 2022-September 2023
- Reviewer, Self Graduate Fellowship, January – February 2022, 2023, 2024
- Equity Advisor for School of Engineering, University of Kansas, January 2023-August 2024
- Faculty Mentor, 2023 Solar Decathlon Competition from the Department of Energy, October 2021-May 2023
- Member, KU Collaborative Committee, August 2021-May 2023
- Member, DEIB Steering Committee, August 2021-December 2022
- Member, Faculty Development and Mentoring Committee, August 2021-May 2023
- Moderator, Faculty Panel, KUEST ONE and Bridge Program, August 2021, 2022, 2023, 2024, 2025, 2026
- Presenter, Mini College, “Learning from Disaster – an integrated Engineering and Social Science Approach,” June 2021
- Panelist, CAREER Awardees Panel, KUCR Career Workshop for Early Career Faculty, February 2021, 2024, 2025, 2026
- Presenter, Junior Scholar Day Mock Classroom, March 2020
- Founding Member, Center for Compassionate and Sustainable Communities, January 2019-Present
- Panelist, Faculty Panel, KUEST ONE Program, August 2019
- Panelist, Getting Students Engaged in Research Panel for New Faculty, Center for Undergraduate Research, August 2017, August 2018

- Member, Faculty Working Group, KU Center for Undergraduate Research, August 2017-May 2018
- Reviewer, Undergraduate Research Projects, Center for Undergraduate Research, April 2016

School of Engineering

- Panelist, Advising First-Gen Success: Voices from Students, Staff and Faculty Panel, School of Engineering, February 3, 2026
- Chair, Professor of the Practice Search Committee, SELF Program, January-April 2026
- Chair, Professor of the Practice Search Committee, SELF Program, August-November 2025
- Presenter, "Learning from Disasters", Intro to Engineering Careers Lecture Series, KUEST Bridge Program, July 2023, July 2024, July 2025
- Presenter, Interdisciplinary Disaster Research 101, Engineering Summer Campus, July 15, 2025
- Chair, Professor of the Practice Search Committee, SELF Program, May-July 2025
- Presenter, Self Engineering Leadership Fellows Program Past, Present, Future, KU Endowment Association Board of Trustees, October 2024
- Member, HR Embedded Partner Search Committee, School of Engineering, September 2024
- Director, Self Engineering Leadership Development Program, August 2024-Present
- Director, IHAWKe Impact and Belonging Programs, June 2024-Present
- Member, Events Coordinator Search Committee, School of Engineering, May 2024-November 2024
- Presenter, Glory Willis Middle School of Kansas City, Kansas, Visit Mock Engineering Class, April 2024
- Presenter, DEI for your Future lecture to KU EECS 582 Capstone Course, February 2023, March 2024, December 2024
- Presenter, St. John's Catholic School of Lawrence, Visit Mock Engineering Class, October 2023, September 2024
- Presenter, Pine Ridge Prep School of Topeka, Visit Mock Engineering Class, October 2023, October 2024, November 2024
- Faculty Advisor, American Indian Science and Engineering Society Student Group, August 2023-Present
- Member, Dean Search Committee, School of Engineering, May 2023-November 2023
- Panelist, NSF CAREER/DOD YiP Panel for Early Career Faculty, February 2023, February 2026
- Chair, Associate Dean for Research Search Committee, July 2022-August 2022
- Member and Diversity Advisor, Faculty Search Committee, Tenure-Track Faculty in Electrical Engineering and Computer Science, August 2021-May 2022
- Presenter, Wichita East High School Visit Mock Engineering Class, October 2021
- Ambassador, Center for Service Learning, October 2021-Present
- Co-Director, Engineering Multicultural Scholars Program, August 2021-August 2024
- Director, IHAWKe Diversity and Women's Programs, July 2021-May 2024
- Faculty Advisor, Society of Hispanic Professional Engineers Student Group, July 2021-May 2024
- Faculty Advisor, National Society of Black Engineers Student Group, July 2021-May 2024
- Faculty Advisor, Society of Asian Scientists and Engineers Student Group, July 2021-May 2024
- Panelist, Engineering Research Communication Workshop, September 2021
- Presenter, KU Endowment Donor Meeting in California, July 2019
- Member, Chair Review Committee, CEAE Department, April 2018-August 2018

- Judge, SELF Program Interview Day, February 2018, January 2021
- Presenter, Project Discovery, June 2017, June 2018, June 2019, July 2022
- Judge, IHAWKe-a-thon student group competition, August 2017
- Judge, School of Engineering Graduate Student Research Awards, April 2017
- Reviewer, School of Engineering Academic Misconduct Panel, March 2017
- Member, Faculty Search Committee, Associate Dean for Diversity, Equity, and Inclusion, August 2016-May 2017
- Faculty Advisor, Women in Design Student Group, August 2015-May 2022

Department of Civil, Environmental and Architectural Engineering

- Member, Professor of the Practice and Teaching Professor in Structural Engineering Search Committee, October 2024-December 2024
- Member, Diversity and Equity Task Force, June 2020-May 2023
- Member, Graduate Studies Committee, August 2019-September 2021
- Member, Architectural Engineering Steering Committee, August 2018-September 2021
- Member, Curriculum Committee, August 2018-September 2021
- Member, Faculty Search Committee, Professor of the Practice Position, April 2016-July 2017
- Faculty Co-Advisor, Earthquake Engineering Research Institute Student Group, August 2016-July 2017
- Faculty Co-Advisor, GEOWall Competition Student Group, August 2015-May 2016
- Session Presider, CEAE Structural Engineering Conference, March 2016, 2022, 2023, 2024
- Organizing Committee, CEAE Structural Engineering Conference, 2015, 2016, 2017, 2018, 2019, 2023, 2024, 2025, 2026

MEDIA FEATURES

- Full-scale Manufactured Housing Tests at Wall of Wind Media Coverage, Critical Mention Analytics: **64,533,893 audience, \$974,399 publicity** generated May 13-21, 2026, includes LIVE TV interviews, recordings and quotes for TV and Radio broadcasts, and online articles
 - NBC
 - “FIU researchers test manufactured home against hurricane-force winds. Will it stand?”, May 13, 2026, NBC Miami, <https://www.nbcmiami.com/news/local/fiu-researchers-test-manufactured-home-against-hurricane-force-winds-will-it-stand/3808521/>
 - “FIU Researchers Blast Homes with Category 5 Winds to Improve Safety”, May 13, 2026, NBC Palm Springs, <https://www.nbcpalmsprings.com/2026/05/13/fiu-researchers-blast-homes-with-category-5-winds-to-improve-safety>
 - NBC6 News Today at 6am, WTVJ (NBC), Miami, FL
 - NBC6 News Today at 10am, WTVJ (NBC), Miami, FL
 - NBC6 News at Noon, WTVJ (NBC), Miami, FL
 - NBC6 News Today at 4pm, WTVJ (NBC), Miami, FL
 - NBC6 News at 5:30pm, WTVJ (NBC), Miami, FL
 - NBC Connecticut News Today, WVIT (NBC), Hartford and New Haven, CT
 - NBC 10 Boston Today @ 5AM, NECN (New England Cable News), Boston, MA
 - NBC 10 Boston Today @ 4pm, NECN (New England Cable News), Boston, MA
 - Paid Program, KSNV (NBC), Las Vegas, NV
 - WPTV News at 5am, WPTV (NBC), West Palm Beach, FL

- KCRA 3 News at 6:30pm, KCRA (NBC), Sacramento-Stockton-Modesto, CA
- WESH 2 News at 4:00pm, NBC, Orlando FL
- Gulf Coast News at 11am on NBC, WBBH (NBC), Ft. Myers, FL
- Gulf Coast News at 3pm on NBC, WBBH (NBC), Ft. Myers, FL
- Gulf Coast News at 5pm, WBBH (NBC), Ft. Myers, FL
- WAFF 48 News at Noon, WAFF (NBC), Huntsville, AL
- WAVE News Midday, WAVE (NBC), Louisville, KY
- ABC
 - WIOD ABC News Radio, Miami, FL, 8:30am, May 13, 2026
 - WIOD ABC News Radio, Miami, FL, 10:30pm, May 13, 2026
 - ABC 7 News at Noon, WSVNDT2 (ABC), Miami, FL
 - WPBF 25 News at 5:00pm, WPBF (ABC), West Palm Beach, FL
- FOX
 - FOX 4 News at 6am, WDAF (Fox), Kansas City, MO
 - FOX 4 News at 9pm, WDAF (Fox), Kansas City, MO
 - Our American Stories, WFLAAM (Fox News Radio), Tampa, FL
 - WFLF-AM, Fox News Radio, Orlando, FL,
 - WJNO, Fox News Radio, West Palm Beach, FL
 - The Jesse Kelly Show, WFLAAM, Fox News Radio, Tampa, FL
 - FOX Weather, WNYWDT3 (IND), New York, NY
- CW
 - WESH 2 News Early Sunrise, WKCF (CW), Orlando, FL
 - WESH 2 News on CW 18 at 7am, WKCF (CW), Orlando, FL
- CBS
 - CBS News Miami Morning Edition at 5:30am, WFOR (CBS), Miami, FL
 - CBS News Miami at 9am, WFOR (CBS), Miami, FL
 - CBS News Miami at 5pm, WFOR (CBS), Miami, FL
 - CBS News Miami at 6pm, WFOR (CBS), Miami, FL
- Local and Other Broadcasting Networks
 - WSCV Telemundo, Miami, FL, May 13, 2026
 - 51 Telemundo, Fort Lauderdale, FL,
 - 7 News Online, Miami Beach, FL
 - Local 10 News at 10am, WPLG (IND), Miami, FL
 - Local 10 News at 5pm, WPLG (IND), Miami, FL
 - Local 10 News at 10pm, WPLG (IND), Miami, FL
 - WNDB-AM, Premiere Networks, Orlando, FL
- Other Online News Articles
 - “A ‘Wall of Wind’ Up to 150 mph Puts Manufactured Home Standards to the Test”, News & Insights, Realtor.com, May 22, 2026,
<https://www.realtor.com/news/trends/manufactured-homes-hurricane-wind-test-affordable-housing/>
 - “Could your house blow down? KU researchers running tests to find out”, KSNW Wichita, May 13, 2026, <https://www.yahoo.com/news/articles/could-house-blow-down-ku-003128834.html?guccounter=1>
 - “Can this Miami house withstand a wall of wind? Here's what to know”,
 - Miami Herald, May 21, 2026,
http://ct.moreover.com/?a=59595852368&p=5fi&v=1&x=o8ueJLsMDjPTtU02VXK_Lw
 - MSN, May 21, 2026, <https://www.msn.com/en-us/news/us/can-this-miami-house-withstand-a-wall-of-wind-here-s-what-to-know/ar-AA23JZ7j>
 - “How much hurricane-force wind can a house take before blowing down? Take a look”, Miami Herald, May 13, 2026,
http://ct.moreover.com/?a=59547087072&p=5fi&v=1&x=SeEGxIBz0WGQL5_P-nUD6A

- “Miami Lab Blasts Manufactured Home With Category 5 Winds In Wild Hurricane Test”, Hoodline, http://ct.moreover.com/?a=59539477933&p=5fi&v=1&x=c_rLfwVuEvVsmPzlLpKC uQ
- “Universidade da Flórida realiza testes com casas pré-fabricadas para avaliar resistência a furacões”, Achei USA, May 15, 2026 <https://www.acheiusa.com/Noticia/universidade-da-florida-realiza-testes-com-casas-pre-fabricadas-para-avaliar-resistencia-a-furacoes-169855/>
- International Coverage
 - “Científicos de la FIU evalúan la resistencia de viviendas prefabricadas a vientos de huracán categoría 5”, Ciber Cuba, <https://www.cibercuba.com/noticias/2026-05-13-u1-e43231-s27061-nid329102-cientificos-fiu-evaluan-resistencia-viviendas>
 - “FIU Wind Tests Home in Varied U.S. Install Methods”, Mirage News, Australia, <https://www.miragenews.com/fiu-wind-tests-home-in-varied-us-install-methods-1673095/>
- Featured in KU Engineering News Release, May 19, 2026, “KU-led ‘Wall of Wind’ research ongoing; findings tie in to tornado season.” <https://enr.ku.edu/news/article/ku-led-wall-of-wind-research-ongoing-findings-tie-in-to-tornado-season>
- Featured in FIU News, May 13, 2026, “FIU’s Wall of Wind tests full-scale manufactured home.” <https://news.fiu.edu/2026/fius-wall-of-wind-tests-manufactured-home-across-various-u.s-installation-practices>
- Featured on National Science Foundation’s Natural Hazard Engineering Research Infrastructure (NHERI) DesignSafe-CI, April 9, 2026, “NHERI Wall of Wind Experiments Target Outdated Building Codes for Manufactured Housing.” <https://www.designsafe-ci.org/community/news/2026/april/nheri-wow-experiments-target-outdated-manufactured-homes/>
- Featured in KU Today, April 2, 2026, “Research targets outdated manufactured housing wind-safety codes.” <https://news.ku.edu/news/article/research-targets-outdated-manufactured-housing-wind-safety-codes>
- Featured in KU Media Campaign
 - Commercial advertised regionally during KU athletic events and social media posts and ads, Spring 2026 on television networks offered through Facebook, Instagram, X, local channels, YouTube, Netflix, and Hulu.
 - Four billboards located along I-70 between Colby, KS and Kansas City, KS, July 2026-Present
- Featured in the Walter Scott, Jr. College of Engineering Newsletter at Colorado State University on December 10, 2025, “Alumna earns prestigious early career award for work merging civil engineering and sociology”. <https://enr.source.colostate.edu/alumna-earns-prestigious-early-career-award-for-work-merging-civil-engineering-and-sociology/>
- Featured on International Science Reserve at the New York Academy of Sciences on November 21, 2025, “Before Hazards Become Disasters with Blavatnik Award Winner Dr. Elaina J. Sutley” <https://isr.nyas.org/2025/11/21/before-hazards-become-disasters-with-blavatnik-award-winner-dr-elaina-j-sutley/>
- Quoted by NPR on October 28, 2025, “From New Zealand to New York, people and communities are moving to avoid climate disasters?” <https://www.npr.org/2025/10/28/nx-s1-5575704/climate-change-alaska-typhoon-relocation-resilience>

- Quoted by KCUR on June 27, 2024, "Manufactured homes are affordable and safer than ever. Could they help solve the housing crisis?" <https://www.kcur.org/2024-06-27/manufactured-homes-are-affordable-and-safer-than-ever-could-they-help-solve-the-housing-crisis>
- Filmed, PBS Series HOME DIAGNOSIS TV, Episode 311: "Equal Opportunity Disaster", aired March 2024. <https://homediagnosis.tv/episode-311-equal-opportunity-disaster>
- Filmed, PBS Series HOME DIAGNOSIS TV, Episode 306: "Rock Hard", aired March 2024. <https://www.pbs.org/video/rock-hard-w5e4bo/>
- Filmed, PBS Series HOME DIAGNOSIS TV, Episode 304: "Like a Hurricane", aired March 2024. <https://www.pbs.org/video/like-a-hurricane-cuhduz/>
- Featured on National Science Foundation's Natural Hazard Engineering Research Infrastructure (NHERI) DesignSafe-CI, April 11, 2022, "MOVING NATURAL HAZARDS RESEARCH INTO PRACTICE: A SUCCESS STORY." <https://www.designsafe-ci.org/community/news/2022/april/moving-natural-hazard-research-practice-success-story/>
- Featured on National Science Foundation's Natural Hazard Engineering Research Infrastructure (NHERI) DesignSafe-CI, February 25, 2022, "FROM NHERI RESEARCH TO ENGINEERING PRACTICE." <https://www.designsafe-ci.org/community/news/2022/february/nheri-research-engineering-practice/>
- Interviewed on the Natural Hazards Engineering Research Infrastructure Podcast, DesignSafe Radio, January 14, 2022, "Episode 107 Protecting Mobile Homes from Tornadoes." (<https://www.designsafe-ci.org/podcast/>)
- Quoted in The Economist, December 18, 2021, "The tornado damage in Kentucky could take decades to repair." <https://www.economist.com/united-states/2021/12/18/the-tornado-damage-in-kentucky-could-take-decades-to-repair>
- Quoted in TEBLOR, September 17, 2021, "Using Local Knowledge in Disaster Policy is Challenging, but Necessary." <https://temblor.net/earthquake-insights/using-local-knowledge-in-disaster-policy-is-challenging-but-necessary-13313/>
- Featured in WIA Report, August 5, 2021, "Three Women Who Have Been Appointed to Diversity Positions in Higher Education." <https://www.wiareport.com/2021/08/three-women-who-have-been-appointed-to-diversity-positions-in-higher-education-2/>
- Featured in Atmos, June 23, 2021, "Mobile Homes and Hurricanes: The True Cost of 'Affordable' Housing." <https://atmos.earth/mobile-homes-south-vulnerable-hurricanes/>
- Filmed, PBS Terra *Weathered*, Episode 8: "Tornado Warning: Survive Nature's Wildest Winds", aired April 2021. <https://www.pbs.org/video/tornado-warning-survive-natures-wildest-winds-eofpk2/>
- Featured on National Science Foundation's Natural Hazard Engineering Research Infrastructure (NHERI) DesignSafe-CI, July 31, 2020, "Engineers who engage: Elaina Sutley." <https://www.designsafe-ci.org/community/news/2020/july/engineers-who-engage-elaina-sutley/>
- Featured in The Kansas City Star, June 24, 2019, "These houses gutted by Linwood tornado never stood a chance. Here's how to change that." <https://www.kansascity.com/opinion/editorials/article231741328.html>
- Interviewed on the Structural Engineering Podcast, June 13, 2019, "TCEP 120: The State of the Structural Engineering Industry from the ASCE SEI Structures Congress Part 1 and Part 2." <https://engineeringmanagementinstitute.org/tsec-02-structural-engineering-industry1/>
- Featured in KU Today, June 13, 2019, "Rapid-response damage assessment gives new insight into recent Kansas tornado." <https://today.ku.edu/2019/06/10/rapid-response-damage-assessment-provides-new-insight-recent-kansas-tornado>

- Featured in KU Today, December 4, 2018, “Researchers look to see how elevated housing in Florida stood up to Hurricane Michael.” https://news.ku.edu/2018/11/29/researchers-look-see-how-elevated-housing-florida-stood-hurricane-michael?utm_source=KU+Today+Newsletter+List&utm_campaign=8be5614b74-EMAIL_CAMPAIGN_2018_12_04_04_45&utm_medium=email&utm_term=0_ec834ed00f-8be5614b74-278649961
 - Reshared by EurekAlert! The Global Source for Science News, AAAS, December 4, 2018, “Researchers look to see how elevated housing in Florida stood up to Hurricane Michael.” https://www.eurekalert.org/pub_releases/2018-12/uok-rlt120418.php
- Featured in The University Daily Kansan, November 5, 2018, “KU professors receive grant to study earthquakes in Nepal.” http://www.kansan.com/news/ku-professors-receive-grant-to-study-earthquakes-in-nepal/article_1477ab50-deaa-11e8-b1bb-0b752e110d67.html
- Featured in KU Today, October 23, 2018, “KU researchers seek answers about what causes earthquakes.” <https://today.ku.edu/ku-geologists-and-engineers-seek-answers-nepal>
- Quoted by The University Daily Kansan, October 4, 2018, “Female professors hold only 26 percent of tenured positions at KU.” http://www.kansan.com/news/female-professors-hold-only-percent-of-tenured-positions-at-ku/article_0b340ace-c772-11e8-9b26-b7d4557ab6f3.html
- Television interview with KUJH TV, aired on September 17, 2018 on “Investigating community resilience to hurricanes”, by Grant DeMars.
- Radio interview with KMBZ Kansas City radio (98.1 FM), aired on September 17, 2018, “Local researcher’s perspective on the aftermath of Hurricane Florence”, by Dan Weinbaum.
- Quoted by USAToday, September 16, 2018, “After Florence: Your house has flooded. Here's what you should do.” Dalvin Brown, USAToday. <https://www.usatoday.com/story/news/2018/09/15/tropical-storm-florence-expert-advice-flooded-houses/1322798002/>.
 - Reshared by EBLnews, September 16, 2018, “U.S. Army Corps of Engineers racing to build emergency dam in Conway, South Carolina.” <https://eblnews.com/video/us-army-corps-engineers-racing-build-emergency-dam-conway-south-carolina-504182>.
- Featured in KU Today, September 13, 2018, “Efficacy of pre-event planning will be key as Florence hits, urban planner says.” <https://today.ku.edu/2018/09/13/efficacy-pre-event-planning-will-be-key-florence-hits-urban-planner-says>
- Featured in KU Today, September 12, 2018, “Expert in community recovery available to discuss impact of Hurricane Florence on Carolinas” (<https://today.ku.edu/2018/09/12/media-advisory-expert-community-recovery-available-discuss-impact-hurricane-florence>).
- Quoted by American Society of Civil Engineers, July 11, 2018, “SEI Futures fund and donors support young professionals to develop standards” (<https://www.asce.org/structural-engineering/news/20180711-sei-futures-fund-and-donors-support-young-professionals-to-develop-standards/>).
- Featured in KU Today, February 13, 2018, “Researcher’s fieldwork builds understanding of community resilience, recovery in face of disaster” (<https://today.ku.edu/2018/02/13/researchers-fieldwork-north-carolina-builds-understanding-community-resilience-and>).
- Interviewed on the Natural Hazards Engineering Research Infrastructure Podcast, DesignSafe Radio, September 1, 2017, “Episode 5 There Used to be Buildings Right There.” (<https://www.stitcher.com/podcast/daniel-zehner/designsafe-radio/e/51320027>)