

CURRICULUM VITAE

Elaina J. Sutley, Ph.D., P.E., LEED AP Homes

Associate Dean of Diversity, Equity, Inclusion and Belonging
Associate Professor
Department of Civil, Architectural, and Environmental Engineering
School of Engineering, University of Kansas, Lawrence, KS 66045
Phone: 785.864.2345
E-mail: enjsutley@ku.edu
Website: <http://people.ku.edu/~e244j869/>

EDUCATION

- Cert., 2021** **Cornell University – eCornell**
Diversity and Inclusion Certificate
- 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

- | | | |
|---------------------|---|---|
| ▪ 07/2021 – Present | Associate Dean for Diversity, Equity, Inclusion and Belonging | University of Kansas
<i>School of Engineering
Lawrence, KS</i> |
| ▪ 05/2021 – Present | Associate Professor | University of Kansas
<i>School of Engineering
Lawrence, KS</i> |
| ▪ 08/2019 – 08/2021 | Chair's Council Assistant Professor | University of Kansas
<i>School of Engineering
Lawrence, KS</i> |
| ▪ 08/2015 – 08/2019 | Assistant Professor | University of Kansas
<i>School of Engineering
Lawrence, KS</i> |
| ▪ 05/2015 – 07/2015 | Post-Doctoral Researcher | Colorado State University
<i>Center for Risk-Based
Community Resilience Planning
Fort Collins, CO</i> |
| ▪ 01/2015 – 05/2015 | Lecturer | Colorado State University
<i>College of Engineering
Fort Collins, CO</i> |
| ▪ 08/2012 – 05/2015 | Graduate Research Assistant | Colorado State University
<i>College of Engineering
Fort Collins, CO</i> |
| ▪ 08/2010 – 07/2012 | Graduate Research and Teaching Assistant | University of Alabama
<i>College of Engineering
Tuscaloosa, AL</i> |

PROFESSIONAL ORGANIZATIONS

- American Society of Civil Engineers (ASCE), Member 2012 – Present
 - Young Professional Committee Member, Executive Committee, Infrastructure Resilience Division, October 2021 – Present
 - Editorial Advisory Board Member, ASCE Journal of Infrastructure Systems, June 2019 – Present
 - Social Science, Policy, Economics, Education, Decision (SPEED) Committee, Infrastructure Resilience Division (IRD)
 - Co-Chair, October 1, 2020 – Present
 - Member since February 27, 2017
 - Sustainability Technical Committee, April 2021 – Present
 - Committee Member, Risk and Resilience Measurement Committee (RRMC), Infrastructure Resilience Division (IRD), February 27, 2017 – Present
 - Committee Member, Disaster Response and Recovery Committee (DDRC), Infrastructure Resilience Division (IRD), February 27, 2017 – Present
- Structural Engineering Institute (SEI) of ASCE, Member 2012 – Present
 - Young Professional Committee Member, Board of Governors, September 2021 – Present
 - BOG Liaison Member, Committee on Diversity, Equity, and Inclusion, December 2021 – Present
 - Member, SEI Reorganization – Priorities Team, June 2022 – Present
 - Multi-Hazard Mitigation Committee,
 - Secretary, October 1, 2021 - Present
 - Member since October 1, 2016
 - Wind Loads Subcommittee (WLSC), ASCE/SEI 7 – Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Codes and Standards Division
 - Balloteer and Voting Member, January 2018 – December 2022
 - Lead, C&C Loads Tornado Tsk Committee Working Group, January 2019 – December 2022
 - Design of Wood Structures Committee
 - Chair, October 1, 2017 – September 30, 2021
 - Member, October 1, 2016 – September 30, 2021
 - Committee Member, Performance of Wood Structures Committee, October 1, 2016 – September 30, 2021
- National Science Foundation (NSF) Natural Hazards Engineering Research Infrastructure (NHERI)
 - Advisory Council, NHERI Lehigh Experimental Facility, September 4, 2021 - Present
 - Advisory Board Member, Interdisciplinary Science and Engineering Extreme Events Reconnaissance (ISEER), November 2018 – present
 - Level 4 member, Structural Engineering Extreme Events Reconnaissance (StEER), May 2019 – Present
 - Advisory Committee Member, CONVERGE Data Publication, January 2019 – June 2020
 - Chair, User Forum Committee, February 4, 2019 – May 12, 2020; Secretary from February 14, 2017 – February 3, 2019
- American Society of Engineering Education (ASEE), Member 2016 – Present
- Earthquake Engineering Research Institute (EERI), Member 2014 – Present
- National Association of Multicultural Engineering Program Advocates (NAMEPA), Member 2021 – Present
- Review Editor, Frontiers in Built Environment, Urban Science, January 2023 – Present

- Reviewer for: *Natural Hazards*; *Journal of Risk and Uncertainty*; *Journal of Infrastructure Systems*; *Journal of Building Engineering*; *Journal of Sustainable and Resilient Infrastructure*; *International Journal of Disaster Risk Reduction*; *Risk Analysis*; *Natural Hazards Review*; *Journal of Earthquake Engineering*; *Engineering Structures*; *Journal of Structural Engineering*; *International Journal of Mass Emergencies and Disasters*; National Science Foundation; National Defense and Engineering Graduate Fellow Fund; National Institute of Standards and Technology

HONORS AND AWARDS

- 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
- 2019 Invitation and Travel Award to “Road Infrastructure Reimagined”, University of Kansas, Alexandria, VA, October 3 – 4, National Science Foundation
- 2019 Invitation and Travel Award to “Sustainable Urban Systems”, Georgetown University, Washington, D.C.
- 2019 Invitation and Travel Award to “An International Workshop to Develop Research Campaigns, Interdisciplinary Teams and Disruptive Technologies for the NHERI 5- Year Science Plan for Natural Hazards”, Alexandria, VA 2018 Invitation and Travel Award to “Rapid Georisks: Social, Geoscience, and Engineering Perspectives on Risk and Resilience” Symposium presented by Virginia Tech’s Global Forum on Urban and Regional Resilience, Alexandria, VA
- 2019 Invitation and Travel Award, Joint CONVERGE-DesignSafe-CI Data Model Development Workshop, Boulder, CO
- 2018 Special Project Award (\$8,000) to Design of Wood Structures Committee, “Development of Technical Guidelines for Performance-Based Seismic Design of Mid-Rise Wood Buildings,” Structural Engineering Institute, American Society of Civil Engineers
- 2018 Travel Award, NSF Workshop Series: Interdisciplinary Methods and Approaches for Hazards and Disaster Research, Boulder, CO
- 2017 International Expert Invited Presentation and Travel Award, European Union Joint Research Centre, Ispra, Italy
- 2017 NHERI Summer Institute Faculty Development Workshop and Travel Award, Natural Hazards Engineering Research Infrastructure, San Antonio, TX
- 2016 Travel Award, NSF Workshop Series: Interdisciplinary Methods and Approaches for Hazards and Disaster Research, Arlington, VA
- 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

- 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., Mitrani-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., Kennan, 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.ijdr.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.**, 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.**, 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.*, B. Robertson*, **M. Fadden, E.J. Sutley**, and J. Colistra, (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.**, J.W. van de Lindt, and L. Peek, (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.**, J.W. van de Lindt, and L. Peek, (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 J.W. van de Lindt, (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, W. Pang, J.W. van de Lindt, X. Shao, P. Bahmani, (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.**, J.W. van de Lindt, E. Ziaei, P. Bahmani, S. Park, X. Shao, W. Pang, D. Rammer, G. Mochizuki, and M. Gershfeld, (2015). "Full-Scale Experimental Verification of Soft-Story-Only Retrofits of Woodframe Buildings with Hybrid Testing." Taylor & Francis *Journal of Earthquake Engineering*, 19(3), pps. 410-430. DOI 10.1080/13632469.2014.975896.
- **Jennings¹, E.**, J.W. van de Lindt, E. Ziaei, G. Mochizuki, W. Pang, and X. Shao, (2014). "Retrofit of a Soft-Story Woodframe Building using SMA Devices with Full-Scale Hybrid Test Verification." Elsevier *Engineering Structures*, 80, pps. 469-485. DOI 10.1016/j.engstruct.2014.09.021.
- **Jennings¹, E.** and J.W. van de Lindt, (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), pps. 469-485. DOI 10.1061/(ASCE)ST.1943-541X.0000953.
- **Pang, W.**, X. Shao, J. van de Lindt, E. Ziaei, **E. Jennings¹**, (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

- Mazumder, R.K., Enderami, S.A., Rosenheim, N., Sutley, E.J., Stanley, M., and Meyer, M. (n.d.). "Estimating Long-term Homeless K-12 Students after a Catastrophic Flood Disaster." Elsevier *Resilience Cities and Structures*, In Review.
- **Sutley, E.J.**, and Lyles, L.W. (n.d.). "Case Studies of Technology Transfer from Natural Hazards Research: General Public, Consensus Standards, and Community Engagement." *Frontiers of the Built Environment*, Special Collection Technology Transfer from the Natural Hazards Engineering Research Infrastructure (NHERI), In Review.
- **Ritchie, L.**, **Sutley, E.J.**, Gibb, C., Gill, D., Sibley, M., Husain, J., and Hamilton, K. (n.d.). "And then COVID Happened": Impacts of the Pandemic on Hazard and Disaster Researchers." *ASCE Journal Natural Hazards Review*, In Review.

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

- Enderami, S.A., Sutley, E.J., Mazumder, R.K., and Dumler, M. (n.d.). "Virtual Testbeds for Community Resilience Analysis: Step-by-Step Development Procedure and Future Orientation." Elsevier *Resilience Cities and Structures*, In Review.
- Lyles, L.W., Wu, Y., Overstreet, K., and Sutley, E.J. (n.d.). "Is Time on Our Side? A Longitudinal Analysis of the Quality of Mandated Plans." *SAGE Journal of Planning Education and Research*, In Review.
- Enderami, A., and Sutley, E.J. (n.d.). "Social Vulnerability Score: a Scalable Index for Representing Social Vulnerability in Virtual Community Resilience Testbeds." Springer *Natural Hazards*, In Review.
- Mazumder, R.K., and Sutley, E.J. (n.d.). "Post-Earthquake Community Resilience Analysis: Integrating Essential Infrastructure System's Serviceability in Building Functionality." *ASCE Journal of Infrastructures Systems*, In Review.

Conference Proceedings

- Wang, L., Van de Lindt, J., Hamideh, S., and Sutley, E. (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, June 2023.
- Rahimi, M., Mazumder, R.K., Nofal, O., Padgett, J., Rosenheim, N., Sutley, E., 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, May 12-14, 2021, 106-109, Virtual.
- 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., C. Bennett, W. Collins, R. Lequesne, C. Luchies, S. Wilson, **E. J. Sutley**, M. Fadden, and C. Melgares. (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., E. Boadi-Danquah, M. Fadden, **E.J. Sutley**, and J. Colistra (2017). "Lightweight Rapidly Constructible and Reconfigurable Modular Steel Floor Systems: Serviceability Analysis and Design," *Architectural Engineering Institute Conference, Oklahoma City, OK, April 11-13, 2017.*
- **Sutley, E.J.**, J.W. van de Lindt, and L. Peek (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, September 20-22, 2016, Torino, Italy.*
- 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.N., J.W. van de Lindt, and L. Peek (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.N., J.W. van de Lindt, and L. Peek (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 2014.
- Jennings¹, E.N., J.W. van de Lindt, X. Shao, W. Pang, and E. Ziaei, (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*, July 21-25, 2014, Anchorage, Alaska.
- van de Lindt, J.W., P. Bahmani, **E.N. Jennings¹**, W. Pang, E. Ziaei, G. Mochizuki, M. Gershfeld, S. Pryor, X. Shao, M. Symans, J. Tian, D. Rammer, (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*, July 21-25, 2014, Anchorage, Alaska.
- Pang, W., E. Ziaei, X. Shao, **E. Jennings¹**, J. van de Lindt, M. Gershfeld, and M. Symans, (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*, July 21-25, 2014, Anchorage, Alaska.
- Shao, X., J.W. van de Lindt, P. Bahmani, W. Pang, E. Ziaei, M. Symans, J. Tian, **E. Jennings, T. Dao.** (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*, July 21-25, 2014, Anchorage, Alaska.
- van de Lindt, J.W., P. Bahmani, M. Gershfeld, G. Mochizuki, X. Shao, S.E. Pryor, W. Pang, M.D. Symans, J. Tian, E. Ziaei, **E.N. Jennings¹**, D. Rammer, (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., C. Chadwell, **E. Jennings¹**, E. Ziaei, W. Pang, X. Shao, J. van de Lindt, (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., E. Ziaei, **E. Jennings¹**, X. Shao, J. van de Lindt, M. Gershfeld, and S. Pryor, (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., P. Bahmani, S. Pryor, G. Mochizuki, M. Gershfeld, W. Pang, E. Ziaei, **E. Jennings¹**, M. Symans, X. Shao, J. Tian, and D. Rammer, (2014). "Overview of the NEES-Soft Experimental Program for Seismic Risk Reduction of Soft-Story Woodframe Buildings." *Structures Congress 2014*: pp. 2875-2885.

- Gershfeld, M., C. Chadwell, J. van de Lindt, W. Pang, E. Ziaei, M. Amini, S. Gordon, E. Jennings¹, (2014). “Distributed Knee-Braced (DKB) System as a Complete or Supplemental Retrofit of Soft-Story Wood-frame Buildings.” *Structures Congress 2014*: pp. 2853-2874.
- van de Lindt, J.W., P. Bahmani, M. Gershfeld, G. Mochizuki, X. Shao, W. Pang, M. Symans, E. Ziaei, E. Jennings¹, S. Pryor, D. Rammer, J. Tian, (2013). “Full-Scale Dynamic Testing of Soft-Story Retrofitted and Un-Retrofitted Woodframe Buildings.” *Structural Engineers Association of Southern California*, San Diego, CA.
- Jennings¹, E., and J.W. van de Lindt, (2013). “Low Cost Shape Memory Alloy Devices for Seismic Response Modification of Light-Frame Wood Buildings.” *Structures Congress 2013*: pp. 1205-1216. DOI: 10.1061/9780784412848.107
- Jennings¹, E., J. Wang, K. Fridley, and C. Chen, (2013). “Temperature Effect on Subcritical Crack Growth in CFRP Externally Bonded Concrete Systems.” *ASC 28th annual technical conference*, Sept 9th – 11th, 2013, State College, PA, CD-ROM proceeding (15 pages).
- Jennings, ¹ E., and J.W. van de Lindt, (2012). “Shape Memory Alloy Dampers for Response Modification of Light-Frame Wood Buildings.” *15th World Conference on Earthquake Engineering*, Lisboa, Portugal, September 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. <https://doi.org/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, <https://doi.org/10.1007/978-3-319-72796-7>.

Reports

- 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). <https://doi.org/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). <https://doi.org/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). <https://doi.org/10.6028.NIST.SP.1230-2>.
- Sutley, E., 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. <https://doi.org/10.17603/ds2-qbsx-ma75>.

- **Sutley, E.**, 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., W. G. Peacock, J. Mitrani-Reiser, N. Rosenheim, D. Deniz, M. Dillard, T. Tomiczek, M. Koliou, A. Graettinger, S. Crawford, K. Harrison, A. Barbosa, J. Tobin, J. Helgeson, L. Peek, M. Memari, **E. Sutley**, D. Gu, S. Cauffman, and J. Fung. (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). <https://doi.org/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.**, Mosalam, K., Prevatt, D., Robertson, I., (2018), "STEER - HURRICANE MICHAEL: PRELIMINARY VIRTUAL ASSESSMENT TEAM (P-VAT) REPORT", DesignSafe-CI, Report. DOI: <https://ezid.cdlib.org/id/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

- Ritchie, L., E. Sutley, C. Gibb, D. Gill, M. Sibley, J. Husain, K. Hamilton. (2023) "Interview Guides and IRB Materials", in Research on COVID-19 Disaster Researchers. DesignSafe-CI. <https://doi.org/10.17603/ds2-wkj8-sr38> v1.
- Mazumder, R. Enderami, S. **Sutley, E.** (2022) "Scenario Hurricane Risk Analysis", in Scenario-based Hurricane Risk Analysis (SHRA) Framework. DesignSafe-CI. <https://doi.org/10.17603/ds2-jzcv-he68>.
- Enderami, S. A., and **Sutley, E.** (2021). "Testbed Experts Survey Report." Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI, <https://doi.org/10.17603/ds2-91jj-fh94>.
- **Sutley, E.**, Enderami, S. A., Mazumder, R., and Dumler, M. (2021). "Testbed Experts Survey Responses." Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI, <https://doi.org/10.17603/ds2-9w9v-my55>.
- Wang, T., Dumler, M., Mazumder, R., **Sutley, E.** (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. <https://doi.org/10.17603/ds2-dw38-z509>.
- Dumler, M., **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-f9db-p423>.
- Mazumder, R., **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-hkcv-xp72>.

- **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-an2v-2c39>.
- **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-5ysj-a554>.
- **Mazumder, R., Sutley, E.**, 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: <https://doi.org/10.17603/ds2-87ne-d742>.
- **Tobin, J.**, Peek, L., van de Lindt, J., **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-9w11-tn85>.
- **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-db3h-gy28>.
- **Xiao, Y.**, Watson, M., Helgeson, J., Farokhnia, K., van de Lindt, J., Mitrani-Reiser, J., **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-f9kt-fm93>.
- Deniz, D., **van de Lindt, J.**, Tomiczek, T., Koliou, M., Barbosa, A., **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-b1yd-pq98>.
- **Sutley, E.** Chen, Z. LI, J. Chao, H. Daniel, L. Clements, J. Sharma, P. Taher, S. Kim, J. Lequesne, R. Kirkham, W. Roueche, D. (2019) "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. <https://doi.org/10.17603/ds2-a06x-f358>.
- **Sutley, E.**, 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. <https://doi.org/10.17603/ds2-85fv-n684>.
- **Jennings¹, E.**, E. Ziaei, J. van de Lindt, W. Pang, X. Shao, G. Mochizuki, M. Gershfeld, D. Rammer, J. Tian, M. Symans (2014). "Hybrid Testing of a Full-Scale Three-Story Soft-Story Woodframe Building", Network for Earthquake Engineering Simulation (distributor), Dataset. <https://doi.org/10.4231/D3JS9H85N>.

Magazine and Online Articles

- Kim, J. and **Sutley, E.** (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.**, 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.** (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.** (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, KS, 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 14-16, 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. November 17, 2015.

Presentations

- **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., Clements, J. (2019). "Leveraging Recent Post-Tornado Damage Findings to Evaluate Kansas Tornado Vulnerability." *THWARDS: Tornado Hazard Wind Assessment and ReducTion Symposium*, Urbana-Champaign, IL, 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 26-30, 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 29-30, 2018.
- **Sutley, E.J.** (2018). "Connecting Physical with Socio-Economics – An Interdisciplinary Approach to Research, Education, and Design." *ASCE 2018 Convention*, Denver, Colorado, October 12-15, 2018.
- **Sutley, E.J.**, T. Tomiczek, M. Dillard, M., Koliou, D. Deniz, S. Hamideh, J. van de Lindt, J. Mitrani-Reiser, A. Barbosa, M. Watson, Y. Xiao, J. Helgeson. (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.**, R. Green, N. Stark, E. Johnson, R. Kargarmoakhar, M. Elsharawy, A. Athanasopoulos-Zekkos, J. Malley, and L. Ritchie. (2018). "Introduction to the NHERI User Forum." *11th National Conference on Earthquake Engineering*, Los Angeles, California, June 25-29, 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 25-29, 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 18-24, 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 18-24, 2018.
- **Sutley, E.J.** and Hamideh, S. (2016). "Post-Disaster Housing Recovery." *American Planning Association, Kansas Chapter Conference*, Lawrence, Kansas, October 5-7, 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 20-22, 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.N.**, J.W. van de Lindt, and L. Peek (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.N.**, J.W. van de Lindt, X. Shao, W. Pang, and E. Ziaei, (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 J.W. van de Lindt, (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

Summary:

\$26,917,665 total externally-funded grants (\$4,853,808 as PI, \$21,464,737 as Co-PI)

\$26,318,535 in active externally-funded grants

- "Understanding Hurricane Effects on Manufactured Homes, Phase II." Funded for \$67,494 from the Florida Division of Emergency Management. Project Duration January 1, 2023 – June 30, 2023. PI with Co-PI William Collins.

- “RII Track-1: Adaptive and Resilient Infrastructures driven by Social Equity (ARISE).” Funded for \$24,000,000 with \$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, OIA Award No. 2148878. Sutley is PI on \$3,806,124. Project Duration: June 2022 – May 2027 (Estimated). Co-PI with PI B. Sturm.
- “Sloan Indigenous Graduate Partnership Seed Grant.” Funded for \$500,000 from the Alfred P. Sloan Foundation. Project Duration: January 2022 – August 2024 (Estimated). 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 1, 2022 – June 30, 2022. PI with Co-PI William Collins.
- “Tornado Risk Perception Data, Instruments and Protocols: Survey of Contractors and KU Campus Community,” Funded for \$1,250 from the Natural Hazards Center. Project Duration May 24, 2021 – October 8, 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 Natural Hazards Center. Project Duration May 24, 2021 – October 8, 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 1, 2020 – April 30, 2022 (Estimated).
- “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 Number 70NANB15H044. Project Duration: February 2020 – January 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 #2000010686. Project Duration: September 1, 2019 – August 31, 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, CMMI Award No. 1760183. Project Duration: March 2019 – February 2023 (Estimated). Co-PI with PI: W. Lyles.
- “CAREER: Assessing the Role of Buildings and Organizations in Community Disaster Resilience,” Funded for \$548,907, including \$24,000 REU Supplement and \$24,907 CLB Supplement, from the Humans, Disasters, and the Built Environment (HDBE) Program within the National Science Foundation, CMMI Award No. 1847373. Project Duration: February 15, 2019 – January 31, 2024 (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, CMMI Award No. 1903486. Project Duration: December 1, 2018 – November 30, 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; \$785,369 total award from the Prediction of and Resilience against Extreme Events (PREEVENTS) and Tectonics Programs within the National Science Foundation, CMMI Award No. 1827866. Project Duration: August 15, 2018 – July 31, 2022 (Estimated). 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). 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 (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 (No. 2302085), University of Kansas. Project Duration: July 2016 – June 2017.

CHAIRPERSON

Postdoctoral Researchers – 2 complete, 1 on-going

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, Walter P. Moore, Houston, Texas

Doctor of Philosophy Students – 2 graduated (2 ongoing)

Enderami, S. Amin Fall 2022, University of Kansas
Dissertation title: Functionality, Access, and Implications: Assessing the Role of Organizations in Community Disaster Resilience
Current Position: Postdoctoral Researcher, University of Kansas

Kim, Jae Summer 2020, University of Kansas
Dissertation title: A Societally-Optimized Resource Distribution (SORD) Framework for Community Flood Recovery
Current Position: Structural Engineer, Walter P. Moore, Houston, Texas

Master of Science Students – 6 graduated (1 ongoing)

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 Engineer, Architectural Engineers Collaborative, Texas

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 – 12 complete (1 ongoing)

- 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 – 4 complete

- Chronister, Cyra**, IHAWKe Assistant, Summer 2022, University of Kansas
- Martinez, Sarah**, IHAWKe Assistant, Summer 2022, University of Kansas
- Oduinyi, Ife**, IHAWKe Assistant, Summer 2022, University of Kansas
- Olguin, Jose**, IHAWKe Assistant, Summer 2022, University of Kansas

TEACHING EXPERIENCE

Course Title	Semester(s) Taught	
CE 461, Structural Analysis	Fa15, Fa16, Fa17, Fa18, Fa19, Fa20, Fa21, Fa22	U. Kansas
CE 768, Design of Timber Structures	Sp16, Sp17, Sp18, Sp19, Sp20, Sp22	U. Kansas

CE 895, Sustainable and Resilient Structures	Fa17, Fa18	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.
CE 262, Civil and Construction Engineering Materials	Fa10, Sp11, Su11	U. Alabama

SERVICE

Conference Organizing

- Panelist, Race, Place, and Infrastructure: Building with Equity in Mind, 2022 Natural Hazards Workshop, Broomfield, Colorado, July 2022
- Organizer, Meet the Leaders Breakfast, Structures Congress 2022, Atlanta, Georgia, October 2021 – April 2022
- Scientific Committee, 14th Americas Conference on Wind Engineering (ACWE), Lubbock, Texas, May 17-19, 2022
- Panelist, NSF Interdisciplinary CAREER Award Panel, NHERI Summer Institute, Virtual, June 16, 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 23, 2020
- Moderator, Invited Session, Interdisciplinary Resilience Science, ResilienceWeek 2020, Virtual, October 23, 2020
- Moderator, Invited Session, Modeling the Disaster Timeline, ResilienceWeek 2020, Virtual, October 21, 2020
- Organizing Committee, ResilienceWeek 2020, Salt Lake City, Utah, October 19-22, 2020
- Panelist, Infrastructure and Climate Change, Hosted and Moderated by U.S. Kansas Representative Sharice Davids, Overland Park, Kansas, February 19, 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 6, 2019
- Organizer and Panel Moderator, Hurricane Engineering: Past, Present, and Future, Structures Congress, Orlando, FL, April 2019
- Organizer and Session Moderator, Recent Efforts in Hurricane Engineering: Assessment, Mitigation and Recovery, Structures Congress, Orlando, FL, 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 18, 2019

- Panelist, Resilience and Recovery: A Case Study of the 2016 Lumberton, NC Flood, 2018 Carolinas Climate Resilience Conference, Columbia, South Carolina, October 2018.
- Organizer, International Research Committee for Disasters Researchers Meeting, Natural Hazards Center, Broomfield, Colorado, July 2018
- Panelist, Career Development Webinar, NHERI REU Program, July 23, 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, Getting Students Engaged in Research Panel for New Faculty, KU Center for Undergraduate Research, October 2017
- 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

National Community

- Review Panelist, U.S. Department of Urban Development Site Planning Disaster Mitigation Guidebook, January 2022 - Present

Local Community

- 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, CO, 2014

University

- Member, Vice Provost for Faculty Affairs, 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 – Present
- Reviewer, Self Graduate Fellowship, February 2022
- Faculty Mentor, 2023 Solar Decathlon Competition from the Department of Energy, October 2021 – Present
- Member, KU Collaborative Committee, August 2021 – Present
- Member, DEIB Steering Committee, August 2021 – Present
- Member, Faculty Development and Mentoring Committee, August 2021 – Present
- Presenter, Mini College, “Learning from Disaster – an integrated Engineering and Social Science Approach,” June 2021
- Presenter, Junior Scholar Day Mock Classroom, March 2020
- Founding Member, Center for Compassionate and Sustainable Communities, January 2019 - Present

- 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, NSF CAREER/DOD YiP Panel for Early Career Faculty, February 21, 2023
- 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 – Present
- Director, IHAWKe Diversity and Women's Programs, July 2021 – Present
- Faculty Advisor, Society of Hispanic Professional Engineers Student Group, July 2021 – Present
- Faculty Advisor, National Society of Black Engineers Student Group, July 2021 – Present
- Faculty Advisor, Society of Asian Scientists and Engineers Student Group, July 2021 – Present
- Panelist, Engineering Research Communication Workshop, September 22, 2021
- Presenter, KU Endowment, 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 – Present

Department of Civil, Environmental and Architectural Engineering

- Member, Diversity and Equity Task Force, June 2020 – Present
- 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
- Organizing Committee, CEAE Structural Engineering Conference, 2015, 2016, 2017, 2018, 2019

PROFESSIONAL TRAINING

- Safe Zone Training Part I, Office of Multicultural Affairs, University of Kansas, January 12, 2022, 3 hours, In-person
- Diving Deep into Feelings and Needs, Human Resources, University of Kansas, December 10, 2021, 3 hours, In-person
- Managing Difficult Conversations, Human Resources, University of Kansas, November 19, 2021, 3 hours, In-person
- Compassionate Communication, Human Resources, University of Kansas, October 14, 2021, 3 hours, In-person
- Unpacking Whiteness in the Workplace Part II, Staff Senate, University of Kansas, September 29, 2021, 2 hours, Live online
- Unpacking Whiteness in the Workplace Part I, Staff Senate, University of Kansas, September 15, 2021, 2 hours, Live online

MEDIA FEATURES

- 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/>
- Featured on PBS Terra *Weathered*, April 6, 2021, episode "Tornado Warning: Survive Nature's Wildest Winds." <https://www.youtube.com/watch?v=ji-cl29HLMo>
- 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 EurekaAlert! 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.eurekaalert.org/pub_releases/2018-12/uok-rit120418.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>)