

CURRICULUM VITAE

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Postdoctoral Researcher

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EDUCATION

- Ph.D., 2022** *University of Kansas, Lawrence, KS, USA*
Major: Civil Engineering, concentrating on Structural Engineering, with an emphasis on community disaster resilience
- M.S., 2009** *K.N.Toosi University of Technology, Tehran, Iran*
Major: Civil Engineering, concentrating on Earthquake Engineering, with an emphasis on seismic performance-based design
- B.S., 2006** *Isfahan University of Technology, Isfahan, Iran*
Major: Civil Engineering, concentrating on Structural Engineering

PROFESSIONAL EXPERIENCE

01/2023 – Present	Postdoctoral Researcher	University of Kansas; Department of Civil, Architectural, and Environmental Engineering
08/2022 – 12/2022	Course Instructor	University of Kansas; Department of Civil, Architectural, and Environmental Engineering
01/2019 – 07/2022	Graduate Research/Teaching Assistant	University of Kansas; Department of Civil, Architectural, and Environmental Engineering
09/2010 – 12/2018	Head of the Infrastructure Design and Construction Division	Iran Small Industries and Industrial Parks Organization; Department of Civil and Environmental Engineering
08/2009 – 08/2010	Senior Structural Design Engineer	Imen Sazeh Fadak Consulting Engineering Company
01/2009 – 08/2009	Research Coordinator and Member of the Technical Board	K.N.Toosi University of Technology; Earthquake Engineering Research Group
09/2006 – 12/2008	Graduate Teaching Assistant	K.N.Toosi University of Technology; Department of Civil Engineering

PUBLICATIONS

Corresponding author underlined

Peer-Reviewed Journal Papers

- Mazumder, R., Enderami, S. A., & Sutley, E. J., (2023). “A Novel Framework to Study Community-level Social and Physical Impacts of Hurricane-induced Winds through Synthetic Scenario Analysis.” *Frontiers in Built Environment*, 9, <https://doi.org/10.3389/fbuil.2023.1005264>
- Enderami, S. A., Mazumder, R., Dumler, M., & Sutley, E. J. (2022). “Virtual Testbeds for Community Resilience Analysis: State of the Art Review, Consensus Study, and Recommendations.” *Natural Hazards Review*, [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000582](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000582)
- Enderami, S. A., Sutley, E. J., & Hofmeyer, S. L. (2021). “Defining organizational functionality for evaluation of post-disaster community resilience.” *Sustainable and resilient infrastructure*, 1-18. <https://doi.org/10.1080/23789689.2021.1980300>
- Daniel, L., Mazumder, R., Enderami, S. A., Sutley, E. J., & Lequesne, R. (2021). “A Community Capitals Framework for Linking Buildings and Organizations for Enhancing Community Resilience through the Built Environment.” *Journal of Infrastructure Systems*, 28(1), 04021053. [https://doi.org/doi:10.1061/\(ASCE\)IS.1943-555X.0000668](https://doi.org/doi:10.1061/(ASCE)IS.1943-555X.0000668)
- Enderami, S. A., Beheshti-Aval, S. B., & Saadeghvaziri, M. A. (2014). “New energy based approach to predict seismic demands of steel moment resisting frames subjected to near-fault ground motions.” *Engineering Structures*, 72, 182-192. <https://doi.org/10.1016/j.engstruct.2014.04.029>

Peer-Reviewed Papers in Review

- Enderami, S. A., Sutley, E. J. (n.d). “Social Vulnerability Score: a Scalable Index for Representing Social Vulnerability in Virtual Community Resilience Testbeds.” *Natural Hazards*, PREPRINT available at Research Square. <https://doi.org/10.21203/rs.3.rs-2113725/v1>
- Enderami, S. A., Sutley, E. J., & Mazumder, R. (n.d). “Virtual Testbeds for Community Resilience Analysis: Step-by-Step Development Procedure, and Future Orientation.” *Resilient Cities and Structures*
- Mazumder, R., Enderami S.A., Rosenheim, N., Sutley, E.J., Stanley, M., & Meyer, M. (n.d). “Estimating Long-term Homeless K-12 Students after a Catastrophic Flood Disaster”, *Resilient Cities and Structures*
- Nofal, O., Amini, K., Padgett, J., van de Lindt, J.W., Rosenheim, N., Darestani, Y., Sutley, E.J., Enderami S.A., Hamideh, S., & Duenas-Osorio, L. (n.d). “Multi-Hazard Socio-Physical Resilience Assessment of Hurricane-Induced Hazards on Coastal Communities,” *Resilient Cities and Structures*
- Enderami, S. A., Sutley, E. J., & Helgeson, J., van de Lind, J., Dueñas-Osorio, L., & Watson, M. (n.d). “Measuring Post-Disaster Accessibility to Essential Services: Availability, Adequacy, Acceptability, and Proximity Dimensions.”

Conference Proceedings/Papers

- Enderami, S. A., & Sutley, E. J., (2023). “Measuring Inequities in Post-Disaster Accessibility to Schools.” ASCE INSPIRE 2023 Conference, Arlington, Virginia, USA.
- Enderami, S. A., Mazumder, R., & Sutley, E. J., (2022). “Framework for Incorporating Community Social Vulnerability in the Assessment of the Hurricane-Induced Wind Risk to Residential Buildings.” 14th Americas Conference on Wind Engineering, Texas Tech University, Lubbock, TX, USA.

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- Mazumder, R., **Enderami, S. A.**, & Sutley, E. J., (2022). “A Scenario-based Approach for Hurricane-Induced Wind Risk Analysis in Urban Areas.” 14th Americas Conference on Wind Engineering, Texas Tech University, Lubbock, TX, USA.
 - Mazumder, R. K., Dumler, M., **Enderami, S. A.**, & Sutley, E. J. (2021). “A Scenario-based Hurricane Analysis Framework for Community-level Building Damage Estimation.” 6th American Association for Wind Engineering Workshop, Clemson University, Clemson, SC, USA.
 - Beheshti-Aval, S. B., **Enderami, S. A.** (2009). “Study the Accuracy of Nonlinear Static Analysis Method in Estimating Seismic Demands of Typical Iranian Steel Structures Subjected to Near-Fault Ground Motions.” 8th International Congress on Civil Engineering, Shiraz, Iran.

Technical Reports

- **Enderami, S. A.** (2022). “Functionality, Access, and Implications: Assessing the Role of Organizations in Community Disaster Resilience,” PhD Dissertations & Theses @ University of Kansas; ProQuest Dissertations & Theses Global, United States.
- **Enderami, S.A.**, Sutley, E. (2021) “Testbed Experts Survey Report,” in Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI. <https://doi.org/10.17603/ds2-91jj-fh94>
- **Sutley, E.**, Lequesne, R., Gelino, B., Reed, D., Phan, N., Smith, M., Dumler, M., Bhatta, A., **Enderami, S.A.**, 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. <https://doi.org/10.17603/ds2-qbsx-ma75>
- **Sutley, E.**, Lequesne, R., Li, J., Kirkham, W., Chen, Z.; Al-Sabawy, A., Daniel, L., **Enderami, S.A.**, Kim, J., Mudaliar, T., Taher, S., Sharma, P., Roueche, D., (2019) “StEER - 28 May 2019 Linwood, Ks Ef4 Tornado: Field Assessment Structural Team (FAST) Early Access Reconnaissance Report (EARR).” DesignSafe-CI. <https://doi.org/10.17603/ds2-xz1j-nm14>

Data and Codes

- **Sutley, E.**, **Enderami, S.A.**, Mazumder, R., & Dumler, M. (2021) “Virtual Survey on Community Resilience Testbeds Development and Use,” in Expert Survey on Community Resilience Testbed Use and Development. DesignSafe-CI. <https://doi.org/10.17603/ds2-9w9v-my55> (*Dataset and Survey Instruments*)
- **Sutley, E.**, Reed, D., Lequesne, R., Kirkham, W., LI, J., Kim, J., Gelino, B., **Enderami, S.A.**, 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> (*Dataset and Survey Instruments*)
- **Enderami, S. A.**, Sutley, E., & Mazumder, R. K. (2022). “Onslow Community Resilience Testbed.” DesignSafe-CI. Retrieved November from <https://doi.org/10.17603/ds2-8h8f-xe60> (*Datasets*)
- **Enderami, S.A.**, & Sutley, E., (2022) “Social Vulnerability Analysis in Virtual Community Resilience Testbeds.” DesignSafe-CI. <https://doi.org/10.17603/ds2-j95s-sp06> (*Computer Code*)
- **Enderami, S.A.**, Sutley, E., Nunez-Corrales, S., “Social Vulnerability Analysis Module” IN-CORE v3.1.0 *pyIncore* v1.4.0 Released (March 30, 2022) (https://incore.ncsa.illinois.edu/doc/incore/analyses/social_vulnerability.html) (*Computer Code*)
- **Mazumder, R.**, **Enderami, S.A.**, & Sutley, E. (2022) “Scenario-based Hurricane Risk Analysis (SHRA) Framework.” DesignSafe-CI. <https://doi.org/10.17603/ds2-jzcv-he68> (*Computer Code*)

PRESENTATIONS

- Virtual Testbeds for Community Resilience Analysis”, *Kansas NSF EPSCoR RII Track-1 ARISE Seminar*, Feb. 1, 2023, online. **invited talk**
- “Measuring Inequities in Post-Disaster Accessibility to Schools.” *ASCE INSPIRE 2023 Conference*, Nov. 13, 2023, Arlington, Virginia, USA.
- “Measuring Post-Disaster Accessibility to Essential Services: Availability, Adequacy, Acceptability, and Proximity Dimensions,” *2023 Researchers Meeting following 48th Annual Natural Hazards Research and Applications Workshop*, July 13, 2023, Broomfield, Colorado, USA.
- “State of Research on Virtual Community Resilience Testbeds,” *NIST Center of Excellence for Risk-based Community Resilience Planning Semi-Annual Meeting*, April 27, 2023, Colorado State University, Fort Collins, CO, USA.
- “The Role of Remote Access in Organizational Functionality,” *Researchers Meeting in 46th Annual Natural Hazards Research and Applications Workshop*. July 14, 2022, online.
- “Framework for Incorporating Community Social Vulnerability in the Assessment of the Hurricane-Induced Wind Risk to Residential Buildings,” *14th Americas Conference on Wind Engineering*, May 17, 2022, Texas Tech University, Lubbock, TX, USA.
- “Post-Disaster Organizational Functionality States,” *NIST Center of Excellence for Risk-based Community Resilience Planning Semi-Annual Meeting*, April 29, 2022, Colorado State University, Fort Collins, Colorado, USA
- “Modeling Post-Disaster Organizational Functionality,” *Architectural Engineering Institute (AEI) 2021 Conference: Living Buildings: The New Frontier of Integrated Design*, April 8, 2021, online.

MENTORSHIP

- SU 2023 **Ava Greene**, Computer Engineering Student | KU, *Undergraduate Student Researcher*, Coupling Household Sequence Recovery Model with Housing Functionality Restoration Model
- SP 2023 **Elizabeth Appel**, Honor Civil Engineering Student | KU, *Undergraduate Student Researcher*, Evaluating the Racial Equity of Flooding Hazards in the Kansas City Metropolitan Area

HONORS AND AWARDS

- 2023: NHERI MECHS, *Travel Grant*, 5th Multi-Hazard Engineering Collaboratory for Hybrid Simulation Workshop: Exploring Multi-hazard and Multi-physics Hybrid Simulation (\$1100)
- 2022: Python Software Foundation, *Travel Grant*, PyCon US 2022 (\$1500)
- 2022: NHERI Network Coordination Office, *Travel Grant*, 14th American Conference on Wind Engineering (\$1600)
- 2022: KU School of Engineering Graduate Engineering Association (\$500)
- 2022: International Association for Wind Engineering, *Registration Fee waiver*, 14th American Conference on Wind Engineering (\$250)
- 2019: NHERI SimCenter, *Travel Grant*, Training in Natural Hazards Engineering (\$1000)

SERVICES

- Peer Reviewer
 - *ASCE Journal of Natural Hazards Review; Sustainable and resilient infrastructure Journal; ASCE Journal of Pipeline Systems Engineering and Practice, ASCE Journal of Irrigation and Drainage Engineering, ASCE Journal of Infrastructure Systems*
 - Beheshti Aval, S.B., (2012), Seismic Rehabilitation of Existing Buildings: Theory and Application. Volume 1, Darbani, A., Keshani, S., Khojastefar, M., Enderami. S.A., Salarian, M., (Ed.) K.N.Toosi University of Technology, URL:
https://press.kntu.ac.ir/book_388054.html

 - Diversity, Equity, Inclusion, Belonging (DEIB)
 - Member, DEIB Committee, KU School of Engineering (SP 22 - present)
 - Member, DEI Working Group, NHERI Graduate Student Council (SP 22 - present)

 - Member, Faculty Search Committee, Teaching Professor Position, KU CEAE (FA 22)

 - Member, Student Group Funding Committee, KU CEAE Department (SP 21- FA 22)

 - Organizing Committee
 - Panelist, Career Path Session, Saturday Academy (K-12 Initiatives) Summer Camp, July 19, 2023, Kansas City, Kansas
 - Reviewer, ASCE INSPIRE 2023 Conference, May 2023, Arlington, Virginia
 - Panelist, Graduate & Professional Journey Panel, NHERI REU Special Session, 14th ACWE, May 18, 2022, Lubbock, Texas
 - Constitution Signatory, NHERI Graduate Student Council, virtual, FA 21

 - Professional Society Membership
 - American Society of Civil Engineers (ASCE)
 - NHERI Graduate Student Council (NHERI GSC)

 - Other
 - Treasure, Persian Student Association, University of Kansas (FA 19 - SP 20)
 - Student Leader, International Friend Association, University of Kansas (FA 19 - SP 21)
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