Dr. Tracy L. Kijewski-Correa

Keough School of Global Affairs: Pulte Institute & Integration Lab
College of Engineering: Department of Civil & Environmental Engineering & Earth Sciences
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1.0 Education

Ph.D. Civil Engineering, University of Notre Dame, May 2003
Dissertation Title: "Time-Frequency Perspectives in System Identification: From Theory to Full-Scale Measurements"
M.S. Civil Engineering, University of Notre Dame, August 2000
Thesis Title: "Dynamic Wind Effects on Structures: Response and Mitigation for Tall Buildings"
B.S. Civil Engineering, University of Notre Dame, Magna Cum Laude, May 1997

2.0 Appointments

8/22 - present	William J. Pulte Director (Acting), Pulte Institute for Global Affairs
7/22 – present	Professor, Keough School of Global Affairs & Department of Civil & Environmental Engineering & Earth Sciences (Joint Appointment), University of Notre Dame
10/16 – present	Academic Director (formerly co-director), Integration Lab (i-Lab), Keough School of Global Affairs, University of Notre Dame
10/16 – present	Associate Professor, Keough School of Global Affairs & Department of Civil & Environmental Engineering & Earth Sciences (Joint Appointment), Linbeck Collegiate Chair, University of Notre Dame
2/09 – 9/16	Associate Professor and Linbeck Collegiate Chair, Department of Civil & Environmental Engineering & Earth Sciences, University of Notre Dame
2/09 – 8/11	Associate Department Chair, Department of Civil Engineering & Geological Sciences, University of Notre Dame
8/08 – 1/09	Associate Professor, Department of Civil Engineering & Geological Sciences, University of Notre Dame
8/03 – 7/08	Assistant Professor/Phillip B. Rooney Chair, Department of Civil Engineering & Geological Sciences, University of Notre Dame
6/03 – 8/03	Visiting Assistant Professor, Department of Civil Engineering & Geological Sciences, University of Notre Dame

Faculty Fellow: Kellogg Institute for International Studies, Fitzgerald Institute for Real Estate, Pulte Institute for Global Development
Faculty Affiliate: Environmental Change Initiative

3.0 Scholarships and Fellowships

- Skidmore, Owings & Merrill Traveling Fellowship in Structural Engineering (2000)
- National Defense Science and Engineering Graduate Fellowship (1997-2000)
- National Science Foundation Graduate Research Trainee Fellowship (1998-2000)

4.0 Distinctions, Honors, Awards

- **Invited Named Lecture:** “Challenges and Opportunities in Promoting Disaster Risk Reduction During Community Self-Recovery," Shah Family Fund Distinguished Lecture, Stanford University, January 27, 2022.
- **Invited Named Lecture:** “Promoting Inclusive Adaptation to Coastal Hazards at the Interface of Research, Policy and Practice,” Edward Wenk, Jr. Endowed Lecture in Technology and Public Policy, Department of Civil and Environmental Engineering, University of Washington, December 8, 2021.
- **Keynote Address:** “Harnessing the Power of Data to Reduce Earthquake Risk: Challenges and Opportunities,” 17th World Conference on Earthquake Engineering, October 2, 2021 (Virtual).
- **Keynote Address:** “The Role of Wind Engineers in Advancing Climate-Responsive and Risk-Informed Sustainable Development: Opportunities and Responsibilities,” American Association of Wind Engineers Workshop, May 13, 2021 (Virtual).
- **Editors Choice, ASCE Journal of Structural Engineering (2021, Q1)** for “Advancing the Design of Resilient and Sustainable Buildings: An Integrated Life-Cycle Analysis,” *Journal of Structural Engineering,* ASCE, 10.1061/(ASCE)ST.1943-541X.0002910.
- **2021 NHERI DesignSafe Dataset Award** for Hurricane Michael Investigation: "StEER Field Assessment Structural Team (FAST)" in *StEER - Hurricane Michael.* DesignSafe-CI. https://doi.org/10.17603/ds2-5aej-e227
- **2018 American Political Science Association for the Paul A. Sabatier Best Conference Paper Award** for “Does It Matter if You ‘Believe’ in Climate Change? The Example of Coastal Home Vulnerability” (APSA Science, Technology & Environmental Politics Section)
- **Keynote Address:** “Flexible architectures for full-scale performance evaluation of tall buildings: Burj Khalifa and beyond,” EVACES 2017: Experimental Vibration Analysis for Civil Engineering Structures, San Diego, July 12, 2017.
- **2016 Media Legends Award,** University of Notre Dame
- **2016 Rev. Edmund P. Joyce, C.S.C, Award for Excellence in Undergraduate Teaching,** University of Notre Dame
- **2015 Dockweiler Award for Excellence in Undergraduate Advising**, University of Notre Dame
- **Keynote Address:** “The Case for Full-Scale Monitoring of Wind-Sensitive Structures: How to Capitalize on the Mutual Benefits for Structural Designers and Wind Engineers,” IN-VENTO, Italy, June 25, 2014.
- **2014 Engineering Education Award:** “Innovative Housing Solutions for Post-Quake Haiti,” National Council of Examiners for Engineering and Surveying (NCEES)
- **Keynote Address:** “Empowering Sustainable Reconstruction of the Residential Sector Following the 2010 Haiti Earthquake,” CONSTRUCT Conference, Phoenix, AZ, September 12, 2012

- **2012 TK Hsieh Award**, Institution of Civil Engineers for "Wind-Induced Vibrations of Buildings: Role of Transient Events," *Proceedings of the ICE, Structures and Buildings,* 164(4): 273-284
- **2010 International Association for Wind Engineering (IAWE) Junior Award** for record of outstanding achievement, within the previous five-year period for significant and original contributions to wind engineering research and applications to wind engineering practice
- **2008 ASCE State-of-the-Art in Civil Engineering** Award for "Validating the Wind-Induced Response of Tall Buildings: A Synopsis of the Chicago Full-Scale Monitoring Program," ***Journal of Structural Engineering***, ASCE, **132**(10): 1509-1523.
- **2005 Richard D. Marshall Student Award** for best doctoral thesis in wind engineering related to experimental methods, American Association for Wind Engineering
- **2003 Eli J. and Helen Shaheen Graduate School Award in Engineering**, University of Notre Dame, for exemplary research and teaching
- **Fellowship, Center for Applied Mathematics**, University of Notre Dame (1999-2000, 2000-2001)
- **2000 Outstanding Graduate Student Teacher Award for Excellence in Teaching,** Kaneb Center for Teaching and Learning, University of Notre Dame
- **1999 Dondanville Family Graduate Award for Excellence in Teaching by a Graduate Student**
- Inducted Member, **Tau Beta Pi Engineering Honor Society**
- Inducted Member, **Chi Epsilon Civil Engineering Honor Society**

5.0 Books and Monographs

Roles in Collaborative Work Listed in Section 5.0	
Primary Contributor	Responsible for conceptualization of study; primary responsibilities for analysis and synthesis of data/literature and writing, with other authors assisting/supporting this role.
Secondary Contributor	Equal contributor to the conceptualization of study, with equal responsibilities for analysis and synthesis of data/literature and writing, coordination of writing and submission provided by the lead author.
Supporting Contributor	Made contributions to analysis and synthesis of data/literature and writing, but those contributions were less than other authors.
Authors on publications include faculty, graduate students, postdoctoral scholars, staff and software developers across units at Notre Dame, as well as other institutions.	

Monographs:

1. Catbas, F.N., **Kijewski-Correa, T.**, Aktan, A.E., Eds. (2012) *Structural Identification of Constructed Facilities: Approaches, Methods, and Technologies for Effective Practice of St-id*, Amer Society of Civil Engineers, ISBN-10: 0784411972, ISBN-13: 978-0784411971.

Chapters:

1. **Kijewski, T.,** Haan, F. and Kareem, A. (2001) "Wind-Induced Vibrations," In: Braun, S.G., Ewins, D.J. and Rao, S.S., eds., *Encyclopedia of Vibration*, Academic Press: 1578-1587.
2. Kareem, A., Tognarelli, M.A., Gurley, K.R. and **Kijewski, T.L.** (1997) "Modeling of Nonlinear Ocean Systems," In: Shlesinger, M.F. and Swean, T., eds., *Stochastically Excited Nonlinear Ocean Structures*, World Scientific: 79-104.

6.0 Refereed Publications

Roles in Collaborative Work Listed in Section 6.0	
Primary Contributor	Responsible for conceptualization of study; primary responsibilities for data collection, analysis and/or writing, with other authors assisting/supporting this role.
Secondary Contributor	Equal contributor to the conceptualization of study; significant responsibilities for data collection, analysis and/or writing, with coordination in writing and submission provided by the lead author.
Supporting Contributor	Made contributions to data collection, analysis and/or writing, but those contributions are intended to support the work of other collaborators who are area leads and thus assume primary responsibilities for the study.
Supervisory	Mentor/advisor of students' work; provided guidance and technical oversight to the students' data collection, analysis and writing process; primarily responsible for editing/rewriting aspects of the paper.
Authors on publications include faculty, students (graduate and undergraduate), postdoctoral scholars, staff and software developers across units at Notre Dame, as well as other institutions. Personnel directly supervised (regardless of affiliation) are underlined and denoted by a superscript: **U** = Undergraduates, **G** = Graduate Students, **P** = Postdoctoral Scholars. Open-Access journals with fees for publication indicated by ◆. Papers receiving awards indicated by ★. Impact factors from the publisher's website are reported in [ ], using 5-year averages when available.	

Peer-Reviewed Journals

Submitted

1. Angeles, K. and **Kijewski-Correa, T.** (2023) "Advancing Parcel-Level Hurricane Regional Loss Assessments Using Open Data and the Regional Resilience Determination Tool," *International Journal of Disaster Risk Reduction*, Manuscript Number: IJDRR-D-23-00096, submitted [Impact Factor: 4.32]
2. Mendonca, D., **Kijewski-Correa, T.,** Esnard, A.-M., Ramirez, J. (2022) "Adaptive Transitions in the Built Environment: A Framework with Insights from the COVID-19 Era," *Journal of Infrastructure Engineering*, Manuscript number: ISENG-2285, submitted.

3. **Kijewski-Correa, T.,** Javeline, D., Kakenmaster, W.[G] and Chesler, A.[G] (2022) "Economic Incentives for Coastal Homeowner Adaptations to Climate Change," *Climate Policy* (Submitted) [Impact Factor: 5.08]
4. **Kijewski-Correa, T.,** Cetiner, B., Zhong, K., Wang, C., Zsarnoczay, A., Guo, Y., Lochhead, M., McKenna, F. (2022) "Validation of an Augmented Parcel Approach for Hurricane Regional Loss Assessments," *Natural Hazards Review* (Revise and Resubmit) [Impact Factor: 2.709, ASCE Flagship hazards journal]

In-Press

Published

5. Zsarnóczay A., Deierlein G.G., Williams C. J., **Kijewski-Correa T.L.**, Esnard A-M., Lowes L., Johnson L., (2022) "Community Perspectives on Simulation and Data Needs for the Study of Natural Hazard Impacts and Recovery," *Natural Hazards Review* DOI: 10.1061/NHREFO.NHENG-1551. [Impact Factor: 2.709, ASCE Flagship hazards journal]
6. Angeles, K.[G] and **Kijewski-Correa, T.** (2022) "Bayesian Data Integration Framework for the Development of Component-level Fragilities Derived from Multiple Post-Disaster Datasets," *Structural Safety,* 99, https://doi.org/10.1016/j.strusafe.2022.102260 [Impact Factor: 5.047]
7. Angeles, K.[G] and **Kijewski-Correa, T.** (2022) "Ontology-Based Building Data Model for Automating Regional Loss Estimations," *Automation in Construction,* 140, https://doi.org/10.1016/j.autcon.2022.104382. [Impact Factor: 7.700]
8. ◆Whitworth MRZ, Giardina G, Penney C, Di Sarno L, Adams K, **Kijewski-Correa T,** Black J, Foroughnia F, Macchiarulo V, Milillo P, Ojaghi M, Orfeo A, Pugliese F, Dönmez K, Aktas YD and Macabuag J (2022) "Lessons for Remote Post-earthquake Reconnaissance from the 14 August 2021 Haiti Earthquake," *Front. Built Environ.* 8:873212. doi: 10.3389/fbuil.2022.873212. [Impact Factor: 1.99]
9. Javeline, D., **Kijewski-Correa, T.** and Chesler, A.[G] (2022) "Do Perverse Insurance Incentives Encourage Coastal Vulnerability?" *Natural Hazards Review*. https://doi.org/10.1061/(ASCE)NH.1527-6996.0000533 [Impact Factor: 2.709, ASCE Flagship hazards journal]
10. Kyprioti, A.P., Taflanidis, A.A., Plumlee, M., Asher; T.G., Spiller, E., Luettich Jr., R.A., Blanton, B., **Kijewski-Correa, T.L.**, Kennedy, A., Shmied, L. (2021) "Improvements in storm surge surrogate modeling for synthetic storm parameterization, node condition classification and implementation to small size databases," *Natural Hazards* **109**: 1349–1386. https://doi.org/10.1007/s11069-021-04881-9 [Impact Factor: 2.254]
11. Burlotos, C.[G], Taflanidis, A., **Kijewski-Correa, T.** (2021) "The Cost of Safety: A Holistic Analysis of Housing Solutions in Haiti," *Natural Hazards Review*. DOI: 10.1061/(ASCE)NH.1527-6996.0000502. [Impact Factor: 2.709, ASCE Flagship hazards journal]
12. **Kijewski-Correa, T.,** Roueche, D., Kennedy, A., Allen, D., Marshall, J., Kaihatu, J., Wood, R., Smith, D.J., Lester, H., Lochhead, M.[U], Copp, A., McCarthy, A. (2021) "Impacts of Hurricane Dorian on the Bahamas: Field Observations of Hazard Intensity and Performance of the Built Environment," *Coastal Engineering Journal.* DOI:10.1080/21664250.2021.1958613 [Impact Factor: 2.125]

13. Venable, C.[G], Liel, A., **Kijewski-Correa, T.**, Javernick-Will, A. (2021) "Wind Performance Assessment of Post-Disaster Housing in the Philippines," *Natural Hazards Review*, **22**(4) https://doi.org/10.1061/(ASCE)NH.1527-6996.0000491[Impact Factor: 2.709, ASCE Flagship hazards journal]
14. ◆**Kijewski-Correa, T.L.**, Roueche, D.B., Mosalam, K.M., Prevatt, D.O., and Robertson, I.N. (2020) "StEER: A Community-Centered Approach to Assessing the Performance of the Built Environment after Natural Hazard Events," *Frontiers in Built Environment,* DOI: 10.3389/fbuil.2021.636197. [Impact Factor: 1.99]
15. Angeles, K.[G], Patsialis, D., **Kijewski-Correa, T.,** Taflanidis, A., Vardeman II, C.F., Buccellato, A. (2021) "Advancing the Design of Resilient and Sustainable Buildings: An Integrated Life-Cycle Analysis," *Journal of Structural Engineering*, ASCE, 10.1061/(ASCE)ST.1943-541X.0002910[1]. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
16. Mendonca, D., Gomes, J.O., **Kijewski-Correa, T.**, Esnard, A.-M., Ramirez, J. (2020) "Implications of COVID-19 for Future Research and Education on Engineered Structures and Services," *Journal of Critical Infrastructure Policy,* 1(2), doi: 10.18278/jcip.1.2.6. [Impact Factor: Not Available]
17. ◆Deierlein, G.G., McKenna, F., Zsarnóczay, A., **Kijewski-Correa, T.L.,** Kareem, A., Lowes, L., Schoettler, M.J., and Govindjee, S. (2020) "A Cloud-enabled Application Framework for Simulating Regional-scale Impacts of Natural Hazards on the Built Environment," *Frontiers in Built Environment*, doi: 10.3389/fbuil.2020.558706. [Impact Factor: 1.99]
18. ◆Burlotos, C.[G], **Kijewski-Correa, T.,** Taflanidis, A. (2020) "The housing market value chain: An integrated approach for mitigating risk in informal residential construction in Haiti," *Sustainability,* 12(19), 8006; https://doi.org/10.3390/su12198006. [Impact Factor: 2.798]
19. ◆**Kijewski-Correa, T.L.,** Taflanidis, A., Vardeman II, C., Sweet, J., Zhang, J., Snaiki, R., Wu, T., Silver, Z., and Kennedy, A. (2020) "Geospatial Environments for Hurricane Risk Assessment: Applications to Situational Awareness and Resilience Planning in New Jersey," *Frontiers in Built Environment: Wind Engineering and Science,* doi: 10.3389/fbuil.2020.549106. [Impact Factor: 1.99]
20. Javeline, D., **Kijewski-Correa, T.** and Chesler, A.[G] (2019) "Does It Matter if You "Believe" in Climate Change? Not for Coastal Home Vulnerability," *Climatic Change,* 155: 511–532 https://doi.org/10.1007/s10584-019-02513-7 [Impact Factor: 4.998]
21. Javeline, D. and **Kijewski-Correa, T.** (2019) "Coastal Homeowners in a Changing Climate," *Climatic Change*. 152(2): 259-276 https://doi.org/10.1007/s10584-018-2257-4. [Impact Factor: 4.998]
22. **Kijewski-Correa, T.L.,** Kennedy, A.B.,. Taflanidis, A.A., Prevatt, D.O. (2018) "Field reconnaissance and overview of the impact of Hurricane Matthew on Haiti's Tiburon Peninsula," *Natural Hazards.* 94: 627–653 https://doi.org/10.1007/s11069-018-3410-0. [Impact Factor: 2.799]
23. ◆Staffelbach, M.[U], Sempolinski, P.[G], **Kijewski-Correa, T.**, Thain, D., Madey, G., Wei, D. and Kareem, A. (2015) "Lessons Learned from Crowdsourcing Complex Engineering Tasks," *PLOS One, Computer and Information Sciences*, DOI: 10.1371/journal.pone.0134978 [Impact Factor: 3.101]

[1] Editor's Choice, ASCEJournal of Structural Engineering, Q1 2021.

24. **Kijewski-Correa, T**., Smith, N., LaBarge, J.[G], Taflanidis, A., Krusche, M., Liu, C., Vardeman, C., Kennedy, A. (2014) "CYBER-EYE: Development of Integrated Cyber-Infrastructure to Support Rapid Hurricane Risk Assessment," *Journal of Wind Engineering and Industrial Aerodynamics,* Special Issue: Americas Conference on Wind Engineering, 133, October: 211–224. [Impact Factor: 3.322].
25. **Kijewski-Correa, T.,** A. Kareem, Y.L., Guo, Y.L., Bashor, R., and Weigand, T.[G] (2013), "Performance of Tall Buildings in Urban Zones: Lessons Learned from a Decade of Full-Scale Monitoring," *International Journal of High Rise Buildings*, 2(3): 179-192. [Impact Factor: 0.69]
26. Catbas, F.N. and **Kijewski-Correa, T.,** (2013) "Structural Identification of Constructed Systems: A Collective Effort Toward an Integrated Approach that Reduces Barriers to Adoption," *Journal of Structural Engineering*, *Special Issue: Real-World Applications for Structural Identification and Health Monitoring Methodologies*, ASCE, 139(10): 1648-1652. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
27. **Kijewski-Correa, T**., Kwon, D., Kareem, A., Bentz, A.[G], Guo, Y., Bobby, S., and Abdelrazaq, A. (2013). "SmartSync: An Integrated Real-Time Structural Health Monitoring and Structural Identification System for Tall Buildings." *Journal of Structural Engineering,* Special Issue: Real-World Applications for Structural Identification and Health Monitoring Methodologies, 139(10): 1675–1687. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
28. Bashor, B., Bobby, S., **Kijewski-Correa, T.** and Kareem, A. (2012) "Full-Scale performance evaluation of tall buildings under wind," 13th ICWE Special Issue, Invited Paper, *Journal of Wind Engineering & Industrial Aerodynamics***,** 104-106: 88-97. [Impact Factor: 3.322]
29. **Kijewski-Correa, T.,** Taflanidis, A.A., Mix, D.[G] and Kavanagh, R.[G] (2012) "An Empowerment Model for Sustainable Residential Construction in Léogâne, Haiti after the January 2010 Earthquake," *ASCE Leadership and Management in Engineering,* Special Issue on Large-Scale Disasters: What We Have Learned, What We Can Do, October: 271-287. [ASCE phased out this title in 2013 and replaced it with *Journal of Management in Engineering*, Impact Factor: 4.469]
30. ★Bentz, A.[G] and **Kijewski-Correa, T**. (2011) "Wind-Induced Vibrations of Buildings: Role of Transient Events," *Proceedings of the ICE, Structures and Buildings,* 164(4): 273-284[2]. [Impact Factor: 0.994]
31. **Kijewski-Correa, T.** and Taflanidis, A.A. (2011) "The Haitian Housing Dilemma: Can Sustainability and Hazard-Resilience Be Achieved," *Bulletin of Earthquake Engineering,* November 10: 1-7. [Impact Factor: 2.819]
32. Mix, D.[G], **Kijewski-Correa, T.** and Taflanidis, A.A. (2011) "Assessment of Residential Housing in Léogâne, Haiti after the January 2010 Earthquake and Identification of Needs for Rebuilding," *EERI Earthquake Spectra,* 27(S1):S299-S322. [Impact Factor: 2.7396]
33. **Kijewski-Correa, T.** and Su, S.[G] (2009) "BRAIN: A Bivariate Data-Driven Approach to Damage Detection in Multi-Scale Wireless Sensor Networks," *Smart Structures and Systems,* 5(4): 415-426. [Impact Factor: 3.557]
34. Kwon, D.K., **Kijewski-Correa, T.** and Kareem, A. (2008), "e-Analysis of High-Rise Buildings Subjected to Wind Loads," *Journal of Structural Engineering,* ASCE, 134(7): 1139-1153. [Impact Factor: 2.528, ASCE Flagship Structures Journal]

[2]★ Winner of TK Hsieh Award

35. **Kijewski-Correa, T.** and Pirnia, J.D.[G] (2007), "Dynamic Behavior of Tall Buildings Under Wind: Insights from Full-Scale Monitoring," *The Structural Design of Tall and Special Buildings*, 16, 471-486. [Impact Factor: 2.048]
36. **Kijewski-Correa, T.** and Kochly, M.[G] (2007), "Monitoring the Wind-Induced Response of Tall Buildings: GPS Performance and the Issue of Multipath Effects," *Journal of Wind Engineering and Industrial Aerodynamics*, 95(9-11): 1176-1198. [Impact Factor: 3.322]
37. **Kijewski-Correa, T.** and Kareem, A. (2007), "Performance of Wavelet Transform and Empirical Mode Decomposition in Extracting Signals Embedded in Noise," *Journal of Engineering Mechanics,* ASCE, 133(7): 849-852. [Impact Factor: 2.584, ASCE Flagship Mechanics Journal]
38. **Kijewski-Correa, T.** and Kareem, A. (2007), "Nonlinear Signal Analysis: Time-Frequency Perspectives," *Journal of Engineering Mechanics,* ASCE, 133(2): 238-245. [Impact Factor: 2.584, ASCE Flagship Mechanics Journal]
39. [3]★**Kijewski-Correa, T.,** Kilpatrick, J., Kareem, A., Kwon, D.K., Bashor, R., Kochly, M.[G], Young, B.S., Abdelrazaq, A., Galsworthy, J., Isyumov, N., Morrish, D., Sinn, R.C. and Baker, W.F. (2006), "Validating the Wind-Induced Response of Tall Buildings: A Synopsis of the Chicago Full-Scale Monitoring Program," *Journal of Structural Engineering*, ASCE, 132(10): 1509-1523. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
40. **Kijewski-Correa, T.** and Kareem, A. (2006), "Efficacy of Hilbert and Wavelet Transforms for Time-Frequency Analysis," *Journal of Engineering Mechanics*, ASCE, 132(10): 1037-1049. [Impact Factor: 2.584, ASCE Flagship Mechanics Journal]
41. **Kijewski-Correa, T.,** Kareem, A. and Kochly, M. (2006) "Experimental Verification and Full-Scale Deployment of Global Positioning Systems to Monitor the Dynamic Response of Tall Buildings," *Journal of Structural Engineering*, ASCE, 132(8): 1242-1253. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
42. **Kijewski-Correa, T.** (2005), "GPS: A New Tool for Structural Displacement Measurement," *APT Bulletin*, 36(1): 13-18. [Impact Factor: not available]
43. Gurley, K., **Kijewski, T.** and Kareem, A. (2003), "First- and Higher-Order Correlation Detection Using Wavelet Transforms," *Journal of Engineering Mechanics*, ASCE, 129(2): 188-201. [Impact Factor: 2.584, ASCE Flagship Mechanics Journal]
44. **Kijewski, T.** and Kareem, A. (2003), "Wavelet Transforms for System Identification: Considerations for Civil Engineering Applications," *Computer-Aided Civil and Infrastructure Engineering*, 18: 341-357. [Impact Factor: 8.552]
45. Zhou, Y., **Kijewski, T.** and Kareem, A. (2003), "Aerodynamic Loads on Tall Buildings: An Interactive Database," *Journal of Structural Engineering*, ASCE, 129(3): 394-404. [Impact Factor: 2.528, ASCE Flagship Structures Journal]
46. Kareem, A. and **Kijewski, T.** (2002), "Time-Frequency Analysis of Wind Effects on Structures," *Journal of Wind Engineering and Industrial Aerodynamics*, 90 (12-15): 1435-1452. [Impact Factor: 3.322]
47. **Kijewski, T.** and Kareem, A. (2002), "On the Reliability of a Class of System Identification Techniques: Insights from Bootstrap Theory," *Structural Safety*, 24(2-4): 261-280. [Impact Factor: 5.142]
48. Zhou, Y., **Kijewski, T.** and Kareem, A. (2002), "Alongwind Load Effects on Tall Buildings: A Comparative Study of Major International Codes and Standards," *Journal of Structural*

[3]★ Winner of 2008 ASCE State-of-the-Art in Civil Engineering Award

Engineering, ASCE, 128(6): 788-796. [Impact Factor: 2.528, ASCE Flagship Structures Journal]

49. **Kijewski, T.** and Kareem, A. (2002), "On the Presence of End Effects and Associated Remedies for Wavelet-Based Analysis," *Journal of Sound and Vibration*, 256(5): 980-988. [Impact Factor: 3.617]
50. Kareem, A. and **Kijewski, T.** (2001), "Probabilistic and Statistical Approaches for Wind Effects: Time-Frequency Perspectives," *Journal of Wind Engineering, JAWE (JAPAN),* 89: 25-30. [Impact Factor: 0.14].
51. Kareem, A., **Kijewski, T.** and Smith, C.E. (1999), "Analysis and Performance of Offshore Platforms in Hurricanes," *Wind and Structures* 2(1): 1-23. [Impact Factor: 1.922]
52. Kareem, A., **Kijewski, T.** and Tamura, Y. (1999), "Mitigation of Motion of Tall Buildings with Recent Applications," *Wind and Structures* 2(3): 201-251. [Impact Factor: 1.922]
53. **Kijewski, T.** and Kareem, A. (1998), "Dynamic Wind Effects: A Comparative Study of Provisions in Codes and Standards with Wind Tunnel Data," *Wind and Structures* 1(1): 77-109. [Impact Factor: 1.922]
54. Kareem, A., **Kijewski, T.** and Lu, P.C. (1998), "Investigation of Interference Effects for a Group of Finite Cylinders," *Journal of Wind Engineering and Industrial Aerodynamics* 77-78: 503-520. [Impact Factor: 3.322]
55. Kareem, A. and **Kijewski, T.** (1996), "7th US National Conference on Wind Engineering: A Summary of Papers," *Journal of Wind Engineering and Industrial Aerodynamics* 62: 81-129. [Impact Factor: 3.322]

Peer- Reviewed Proceedings

1. Angeles, K.[G], Patsialis, D., Taflanidis, A.A., **Kijewski-Correa, T.L.,** Vardeman II, C.F., Buccellato, A. (2019) "Integrated Life Cycle Assessments to Support the Design of Multi-Hazard Resilient and Sustainable Buildings," *ICONHIC2019 2nd International Conference on Natural Hazards & Infrastructure,* 23-26 June, Chania, Greece.
2. **Kijewski-Correa, T.L.,** Javeline, D., Chesler, A.[G], Richman, K., Gillespie, H.[U], Taflanidis, A.A. (2019) "Perspectives on Risk Mitigation Among Homeowners Across the Disaster Recovery Life Cycle," *ICONHIC2019 2nd International Conference on Natural Hazards & Infrastructure,* 23-26 June, Chania, Greece.
3. **Kijewski-Correa, T.L.,** Taflanidis, A.A., Vardeman II, C., Kennedy, A.B., Wu, T. (2019) "Collaborative Geospatial Environments for Rapid Risk Assessment in Support of Situational Awareness and Resiliency Planning," *ICONHIC2019 2nd International Conference on Natural Hazards & Infrastructure,* 23-26 June, Chania, Greece.
4. Angeles, K.[G], Patsialis, D., Taflanidis, A., **Kijewski-Correa, T.L.,** Buccellato, A., Vardeman, C. (2019) "Integrated workflow for evaluating sustainability and resiliency of building systems," *ICASP13 13th International Conference on Applications of Statistics and Probability in Civil Engineering*, 26-30 May, Seoul.
5. **Kijewski-Correa, T.,** Gong, J., Kennedy, A., Womble, J.A., Cai, S., Cleary, J., Dao, T., Leite, F., Liang, D., Peterman, K., Sun, C., Taflanidis, A., Wood, R. (2018) "Performance of Low-Rise Construction Under Wind and Coastal Hazards During the Landfall of Hurricane Harvey," *Proceedings of Forensic Engineering 8th Congress,* November 29-December 2, Austin, TX.
6. Pinelli, J.-P., Roueche, D., **Kijewski-Correa, T.**, Plaz, F., Prevatt, D. Zisis, I., Elawady, A., Haan, F., Pei, S., Gurley, K., Rasouli, A., Refan, M., Rhode-Barbarigos, L., Moravej,

M. (2018) “Overview of Damage Observed in Regional Construction During the Passage of Hurricane Irma over the State of Florida,” *Proceedings of Forensic Engineering 8th Congress*, November 29-December 2, Austin, TX.

7. Prevatt, D.O., Roueche, D.B., Aponte-Bermudez, L.D., **Kijewski-Correa, T.**, Li, Y., Chardon-Maldonado, P., Cortes, M., López Del Puerto, C., Muñoz, J., Mercado, A., Morales, A. (2018) “Performance of Structures Under Successive Hurricanes: Observations from Puerto Rico and the US Virgin Islands after Hurricane Maria,” *Proceedings of Forensic Engineering 8th Congress,* November 29-December 2, Austin, TX.
8. Angeles, K.[G], Patsialis, D., **Kijewski-Correa, T.,** Taflanidis. A., Vardeman II, C.F., Buccellato, A. (2018) “A New Normative Workflow for Integrated Life-Cycle Assessment,” *Proceedings of IBPC2018, 7th International Building Physics Conference,* Healthy, Intelligent and Resilient Buildings and Urban Environments, Syracuse, New York, September 23-26.
9. Fink, K.[G], Jensen, E.[G], Mix, D., Taflanidis, A.A., and **T.L. Kijewski-Correa** (2017). "Mitigating seismic risk in the developing world: Lessons learned in Haiti and promotion of alternative solutions". In *Proceedings of the 16th World Conference on Earthquake Engineering*. January 9-13. Santiago, Chile.
10. **Kijewski-Correa, T.L**., Mix, D.T., and A.A. Taflanidis (2016) “Quantification of Perceived Vulnerability and Barriers to Recovery of the Urban Housing Sector in Post-Quake Haiti,” *1st International Conference on Natural Hazards & Infrastructure*, Chania, Greece, 28-30 June.
11. **Kijewski-Correa, T.L.,** Taflanidis, A.A., Kennedy, A.B., Vardeman II, C.F. and T. Wu (2016) “Rapid Hurricane Risk Assessment and Stakeholder Decision Support to Enhance Community Response, Recovery and Resilience,” *1st International Conference on Natural Hazards & Infrastructure*, Chania, Greece, 28-30 June.
12. Bartolini, A.[G], Kijewski-Correa, T. (2015) “A Uniform Vernacular for Structural Systems in Modern Tall Buildings,” *CTBUH 2015*, New York, October 26-30.
13. Fink, K.[G], Taflanidis, A.A., Kijewski-Correa, T.L., Jensen, E.[G], and Mix, D.T. (2015) “Mitigating Risk in the Developing World: Challenges and Responsibilities of the Global Structural Engineering Community,” *Proceedings XI Congreso Chileno de Sismología e Ingeniería Sísmica” (XI Chilean Congress of Seismology and Earthquake Engineering) held at Santiago, Chile*, Paper 202.
14. Zhai, Z.[G], **Kijewski-Correa, T**., Hachen, and Madey, G. (2012) “Haiti Earthquake Photo Tagging: Lessons on Crowdsourcing In-Depth Image Classifications,” *Proceedings of 7th International Conference on Digital Information Management (ICDIM 2012),* Aug 22-24, Macau, China.
15. Zhai, Z.[G], Hachen, D., **Kijewski-Correa, T.** Shen, F. and Madey, G. (2012) “Citizen Engineering: Methods for ‘Crowdsourcing’ Highly Trustworthy Results,” *Proceedings 45th Hawaii International Conference on System Sciences*, January 4-7, Maui, Hawaii: 3406-3415.
16. Zhai, Z.[G], **Kijewski-Correa, T.,** Kareem, A., Hachen, D., and Madey, G. (2012) “Citizen Engineering: Evolving OSS Practices to Engineering Design and Analysis,” *Proceedings of 8th International Conference on Open Source Systems, IFIP Advances in Information and Communication Technology*, 378: 61-77.
17. **Kijewski-Correa, T.**, Su, S.[G] and Montestruque, L. (2012) “A Citizen-Centric Health Monitoring Paradigm Using Embedded Self-Locating Wireless Sensor Networks,”

Proceedings of Structures Congress 2012, 20th Analysis and Computation Specialty Track, March 29-31, Chicago.

18. Bentz, A.[G] and **Kijewski-Correa, T.** (2012) "Finite Element Modeling of Tall Buildings: The Importance of Considering Foundation Systems for Lateral Stiffness," *Proceedings of Structures Congress 2012, 20th Analysis and Computation Specialty Tra*ck, March 29-31, Chicago.
19. Bentz, A.[G] and **Kijewski-Correa, T.** (2008) "Predictive Models for Damping in Buildings: The Role of Structural System Characteristics," *Proceedings of 2008 Structures Congress, 18th Analysis and Computation Specialty Conference*, Vancouver, Canada.
20. **Kijewski-Correa, T.,** Haenggi, M. and Antsaklis, P. (2006) "Wireless Sensor Networks for Structural Health Monitoring: A Multi-Scale Approach," *Proceedings of 2006 ASCE Structures Congress, 17th Analysis and Computation Specialty Conference*, May 18-21, St. Louis. (Presenter)
21. Gurley, K., **Kijewski, T.** and Kareem, A. (2001), "Higher Order Correlation Detection in Nonlinear Aerodynamic Systems Using Wavelet Transforms," *Proceedings of International Conference on Structural Safety and Reliability,* Newport Beach, CA, June.
22. **Kijewski, T.** and Kareem, A. (2001), "On the Reliability of System Identification: Applications of Bootstrap Theory," *Proceedings of International Conference on Structural Safety and Reliability,* Newport Beach, CA, June. (Presenter)
23. **Kijewski, T.** and Kareem, A. (1999), "Analysis of Full-Scale Data from a Tall Building in Boston: Damping Estimates," *Proceedings of 10th International Conference on Wind Engineering*, Copenhagen, June. (Presenter)

7.0 Unrefereed Publications

1. **Kijewski-Correa, T.L.,** Rodgers, J., Presuma, L., Dévilmé, G., Lochhead, M., Canales, E., Mbabazi, A. (2022) "Building performance in the Nippes, Haiti earthquake: lessons learned from a hybrid response model," *Proceedings of the 12th National Conference in Earthquake Engineering,* Earthquake Engineering Research Institute, 27 June - 1 July, Salt Lake City, UT.
2. Roueche, D.B., Nakayama, J.O., Cetiner, B.M., Sabarethinam, K., **Kijewski-Correa, T.** (2022) "Hybrid Framework for Post-Hazard Building Performance Assessments with Application to Hurricanes," *14th Americas Conference on Wind Engineering*, National Wind Institute - Texas Tech University. May 17-19.
3. **Kijewski-Correa, T.** (2021) "Harnessing the Power of Data to Reduce Earthquake Risk: Challenges and Opportunities*," Proceedings of the 17th World Conference on Earthquake Engineering,* 27 September - 2 October, Sendai, Japan (Manuscript for Keynote address).
4. **Kijewski-Correa, T.** (2021) "Enhancing Cooperation Between Research and Practice: Opportunities for More Sustainable and *Effective Disaster Recovery," Proceedings of the 17th World Conference on Earthquake Engineering,* 27 September - 2 October, Sendai, Japan (Manuscript for Public Lecture).
5. Burlotos, C.A.G.[G], Presuma, L.[G], Cunningham, W.[U], **Kijewski-Correa, T.L.**, Taflanidis, A.A., (2020) "Innovation Clubs: Mobilizing Local Creativity for Sustainable Development and Pedagogy," *Proceedings of Engineering Education for Sustainable Development,* June 7-10, Cork, Ireland.

6. Angeles, K.[G], Patsialis, D., **Kijewski-Correa, T.,** Taflanidis, A., Vardeman II, C.F., Buccellato, A. (2019) “Advancing Resilient and Sustainable Buildings Through a New Normative Workflow for Integrated Life-Cycle Assessments,” *ICSI 2019 International Conference on Sustainable Infrastructure,* 7-9 November, Los Angeles.
7. Roueche, D.B., **T. Kijewski-Correa, T.L.,** Pinelli, J.P., Prevatt, D.O., Gurley, K.G., Marshall, J., Smith, D.J., Cleary, J. (2019) "Performance of Structures during Near-Design Wind and Surge Conditions Induced by Hurricane Michael (2018)." *15th International Conference on Wind Engineering*, Beijing, China, 1-6 September.
8. Richman, K., **Kijewski-Correa, T.,** Javeline, D., Taflanidis, A., Presuma, L., Jean, E., Jean Benoit, G. (2018) “A Safe House: An Interdisciplinary Tèt Ansanm,” *Proceedings of the Haitian Studies Association Annual Conference: Haitian Studies at the Crossroads: Integrating the Humanities, Arts, Religions, Technology, and Sciences*, November 8-10, Port-au-Prince, Haiti.
9. ★ Javeline, D., **Kijewski-Correa, T.,** Chesler, A.[G] (2018) “Does It Matter if You ‘Believe’ in Climate Change? The Example of Coastal Home Vulnerability,” *Annual Meeting of the American Political Science Association*, August[4].
10. **Kijewski-Correa, T**. and Bartolini, A.[G] (2017) “Flexible architectures for full-scale performance evaluation of tall buildings: Burj Khalifa and beyond,” *EVACES 2017: Experimental Vibration Analysis for Civil Engineering Structures*, San Diego, July 12-14 (Manuscript for Keynote address).
11. **Kijewski-Correa, T.L.,** Kennedy, A.B., Prevatt, D.O. and Taflanidis, A.A. (2017) “Field Reconnaissance Following the Passage of Hurricane Matthew over Haiti’s Tiburon Peninsula,” *Proceedings 13th Americas Conference on Wind Engineering (13ACWE),* Gainesville, FL, May 21-24.
12. Javeline, D. and **Kijewski-Correa, T.** (2017) “Coastal Homeowners in a Changing Climate,” *Adapting to Climate Change: Actions, Implementations, and Outcomes*, Notre Dame, IN, April 28-30.
13. Bartolini, A.[G] and **Kijewski-Correa, T.** (2017). "Capturing the total displacement of tall buildings: Use of tiltmeters in full-scale monitoring arrays." *2017 ASCE Structures Congress*, Denver, CO, April 6-8.
14. Bartolini, A.[G] and **Kijewski-Correa, T.** (2017). "A predictive model for damping in tall buildings based on structural system behavior." *2017 ASCE Structures Congress*, Denver, CO, April 6-8.
15. **Kijewski-Correa, T**., Taflanidis, A., Buccellato, A. and Vardeman, C. (2017) “Integrated Life-cycle Assessment of Building Resiliency and Sustainability.” *2017 ASCE Structures Congress*, Denver, CO, April 6-8.
16. **Kijewski-Correa, T**. (2016) “Integrated Frameworks for Performance-Based Design and Assessment of Buildings Under Wind,” *Sixth U.S.-Japan Workshop on Wind Engineering*, Sanjo Conference Hall, University of Tokyo (Hongo Campus), Tokyo, Japan, 12-13, May (Invited)
17. Bartolini, A.,[G] **Kijewski-Correa, T.,** Smith, N., Taflanidis, A., Kennedy, A., Kareem, A., Wu, T., Liu, C., Krusche, M., Vardeman II, C. (2015) “CyberEye: An Integrated Cyber-Infrastructure to Support Rapid Hurricane Risk Assessment,” *Proceedings of*

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19. Weigand, T.[G] and **Kijewski-Correa, T.** (2015) "Automated Habitability Assessment and Performance Based Design of Tall Buildings," *Proceedings of ICWE 14, 14th International Conference on Wind Engineering,* Porto Alegre, Brazil, June 21-26.
20. Fink, K.[G], Jensen, E.[G], McLaughlin, K.[U], Taflanidis, A. **Kijewski-Correa, T.,** Mix, D., (2015) "Design, Validation and Implementation of an Alternative Housing Model for Reconstruction Efforts in Post-Quake Haiti," EERI Annual Meeting, Boston.
21. Bartolini, A.[G], Williams, S.[G], **Kijewski-Correa, T.** (2015) "Modernizing Khan's System Hierarchy for Tall Buildings: A Data-Driven Approach to System Characterization," *Proceedings of 2015 ASCE/SEI Structures Congress*, Portland, April 23-25.
22. **Kijewski-Correa, T.,** Taflanidis, A., and Madey, G. (2015) "Resilience Assessment in Engineering Education: An Interdisciplinary Approach Using Mobile Technologies," *Proceedings of 2015 ASCE/SEI Structures Congress*, Portland, April 23-25.
23. Staffelbach, M.[U], Sempolinski, P.[G], Hachen, D., Kareem, A., **Kijewski-Correa, T.**, Thain, D., Wei, D., and Madey, G. (2014) "Lessons Learned from an Experiment in Crowdsourcing Complex Citizen Engineering Tasks with Amazon Mechanical Turk," *Collective Intelligence Conference (MIT)*, Cambridge, MA.
24. **Kijewski-Correa, T.,** Taflanidis, A., Kennedy, A., Smith, N., Krusche, M., Liu, B. and Vardeman II, C. (2014) "CyberEye: An Integrated Cyber-Infrastructure to Support Rapid Risk Assessment, Post-Disaster Reconnaissance and Data Discovery," *Global Risk Forum 5th International Disaster and Risk Conference*, Davos, Switzerland, August 24 – 28.
25. **Kijewski-Correa, T.,** Kwon, D.-K., Kareem, A. (2014) "Burj Khalifa: A Case Study in Client-Driven, Flexible Architectures for Long-Term Building Monitoring," (2014) *Structures Congress,* Boston, MA., April 3-5.
26. **Kijewski-Correa, T.** "The Tower Builder: Adapting Universal Principles from Structural Engineering for Experiential Learning Among First Year Engineering Students," (2014) *Structures Congress,* Boston, MA., April 3-5.
27. LaBarge, J.[G] and **Kijewski-Correa, T.** (2013) "Rapid Infrastructure Digitization Framework to Support High-Fidelity Hurricane Risk Assessment," *Proceedings of 12th Americas Conference on Wind Engineering*, Seattle, June 16-20. (Poster)
28. Weigand, T.[G] and **Kijewski-Correa, T**. (2013), "Automated Assessment of Tall Building Wind-Induced Response Data to Support Long-Term Monitoring Programs," *Proceedings of 12th Americas Conference on Wind Engineering*, Seattle, June 16-20.
29. **Kijewski-Correa, T.,** Taflanidis, A., Kennedy, A., Fernando, H.J.S., Kareem, A., Khandelwal, K. and Westerink, J. (2013) "CYBER-EYE: Development of Integrated Cyber-Infrastructure to Support Rapid Hurricane Risk-Assessment," *Proceedings of 12th Americas Conference on Wind Engineering*, Seattle, June 16-20.
30. Williams, S.[G], Bentz, A.[G] and **Kijewski-Correa, T.** (2013) "A Typology-Driven Damping Model (TD2M) to Enhance the Prediction of Tall Building Dynamic Properties Using

Full-Scale Wind-Induced Response Data," *Proceedings of 12th Americas Conference on Wind Engineering*, Seattle, June 16-20.

31. LaBarge, J.[G] and **Kijewski-Correa, T.** (2013) "Rapid Digitization of Structures for Automated Hurricane Risk Assessment within Cyber-Platforms," *Structures Congress*, Pittsburgh, PA, May 2-4.
32. Bentz, A.[G] and **Kijewski-Correa, T.** (2013) "A Novel Approach to Predicting Damping: Insights from Structural System Typology," *Structures Congress*, Pittsburgh, PA, May 2-4.
33. **Kijewski-Correa, T.L.,** Taflanidis, A.A., Kennedy, A.B., Kareem, A. and J.J. Westerink (2012) "CYBER-EYE: Integrated Cyber-Infrastructure to Support Hurricane Risk-Assessment," *Advances in Hurricane Engineering Conference: Learning from Our Past*, Miami, FL, October 24-26. (presenter)
34. **Kijewski-Correa, T.** (2012), "On the Use of Wireless and Virtual Wireless Networks for Monitoring by End Users," *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012)*, Notre Dame, IN, June 17-20.
35. Bentz, A.[G] and **Kijewski-Correa, T.** (2012) "A Predictive Model for Damping Based on Full-Scale Data and Structural System Characteristics," *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012)*, Notre Dame, IN, June 17-20.
36. **Kijewski-Correa, T.,** Taflanidis, A., Mix, D.[G] and Kavanagh, R.[U] (2012) "The 2010 Haiti Earthquake: An Empowering Model for Residential Reconstruction," *2012 EERI Annual Meeting & National Earthquake Conference*, April 10-13, Memphis, TN (Poster).
37. **Kijewski-Correa, T.,** Kareem, A., Isyumov, N., Young, B. and W. Baker (2012) "Lessons Learned in a Decade of the Chicago Full-Scale Monitoring Program," *Proceedings of Structures Congress 2012,* March 29-31, Chicago.
38. Abdelrazaq, A., **Kijewski-Correa, T.,** Kareem, A. and R. Denoon, (2012) "An Integrated System for Web-Enabled Continuous Monitoring and Assessment of the World's Tallest Building," *Proceedings of Structures Congress 2012,* March 29-31, Chicago.
39. Kavanagh, R.[U], Keller, B.[U], Gilhooly, J.[U], Mix, D.[G], **Kijewski-Correa, T.,** and Taflanidis, A. (2012) "Achieving a Sustainable Framework for Affordable Housing in Haiti: A Community-Driven Solution," *Faces Behind the Figure: Visions of Prosperity, Progress & Human Potential, Fourth Annual Human Development Conference*, February 10-11, Notre Dame, IN.
40. Kwon, D.K., **Kijewski-Correa, T.,** Kareem, A. and Abdelrazaq, A. (2011) "Smartsync Framework in Structural Health Monitoring," *Proceedings of IABSE-IASS Symposium*, September 20-23, London, UK.
41. Kwon, D.K., **Kijewski-Correa, T**. and Kareem, A. (2011) "Event-Driven SmartSync System for Structural Health Monitoring of Tall Buildings," *Proceedings of 13th International Conference on Wind Engineering*, July 10-15, Amsterdam.
42. Bashor, R.[G], Bobby, S.[G], **Kijewski-Correa, T**. and Kareem, A. (2011) "Full-Scale Performance Evaluation of Tall Buildings Under Wind," *Proceedings of 13th International Conference on Wind Engineering*, July 10-15, Amsterdam.

43. **Kijewski-Correa, T.** (2011) “Open-Sourcing the Design of Civil Infrastructure: A Paradigm Shift,” *Proceedings of Structures Congress*, April 14-16, Las Vegas, NV (presenter)
44. **Kijewski-Correa, T**., Montestruque, L., Su, S.[G], and Savona, G. (2010) “A Rapidly Re-Deployable Wireless Sensor Network for Structural Assessment by Non-Expert End Users: The CITI-SENSE Concept,” Proceedings of 5th World Conference on Structural Control and Monitoring, July 12-14, Tokyo, Japan. (presenter)
45. Kwon, D.K., **Kijewski-Correa, T**., and Kareem, A. (2010) “SmartSync: An Integrated Real-Time Monitoring and System Identification Platform for Tall Buildings,” Proceedings of 5th World Conference on Structural Control and Monitoring, July 12-14, Tokyo, Japan. (presenter)
46. Bentz, A.[G], Young, B., **Kijewski-Correa, T.** and Abdelrazaq, A. (2010) “Finite Element Modeling of Common Lateral Systems in Tall Buildings: Insights from Full-Scale Monitoring,” *Proceedings of Structures Congress*, May 12-15, Orlando, FL.
47. Kwon, D., **Kijewski-Correa, T.** and Kareem, A. (2010) “SmartSync: An Integrated Real-Time Monitoring and SI System for Tall Buildings,” *Proceedings of Structures Congress*, May 12-15, Orlando, FL.
48. Bentz, A.[G] and **Kijewski-Correa, T.** (2009), “A Wavelet-Based Framework for System Identification of Tall Buildings Under Transient Wind Events,” *Proceedings of 2009 Joint ASCE-ASME-SES Conference on Mechanics and Materials*, June 24-27, Blacksburg, VA.
49. **Kijewski-Correa, T**., Henderson, A., Montestruque, L. and Rager, J.[G] (2009), “Real-Time Sensor Fusion to Enhance Plume Detection in Urban Zones,” *Proceedings of 11th Americas Conference On Wind Engineering,* June 22-26, San Juan, Puerto Rico (Presenter).
50. **Kijewski-Correa, T**. and Pirnia, D.[G] (2009), “‘Pseudo-Full-Scale’ Evaluation of Occupant Comfort in Tall Buildings,” *Proceedings of 11th Americas Conference On Wind Engineering,* June 22-26, San Juan, Puerto Rico (Presenter).
51. Kareem, A., **Kijewski-Correa, T.,** Tamura, Y. and Madey, G. (2009), “Next Frontiers of Innovation, Discovery and Learning in Wind Engineering: A Cyberinfrastructure Perspective,” *Cooperative Actions for Risk Reduction, Proceedings of 4th International Symposium on Wind Effects on Buildings and Urban Environment*, Tokyo, 4-6 March.
52. Su, S.[G], **Kijewski-Correa, T**. and Pando Balandra, J. F.[U], (2009), “Bivariate Regressive Adaptive INdex for Structural Health Monitoring: Performance Assessment and Experimental Verification, *Proceedings of SPIE Smart Structures/NDE*, March 9-12, San Diego.
53. Bentz, A.[G] and **Kijewski-Correa, T.** (2009) “Wind-Induced Vibrations of Tall Buildings: The Role of Full-Scale Observations in Better Quantifying Habitability,” *IMAC XXVII: A Conference and Exposition on Structural Dynamics*, Rosen Shingle Creek Resort and Golf Club, Orlando, Florida, February 9-12.
54. **Kijewski-Correa, T.** (2009) “Reflections on an Interdisciplinary REU with Global Outreach: The ISTIM Experience,” *National Science Foundation Engineering Education Awardees Conference,* Reston, VA, February 1-3. (Poster presentation)
55. **Kijewski-Correa, T.**, Talley, J., Bauer, P., Haenggi, Antsaklis, P., Lemmon, M., Laneman, N.L., Montestruque, L., , Fulton, J., Patnaik, G. (2008), “Real-Time Plume Detection in Urban Zones Using Networked Sensing

Data," *Proceedings of Chem-Bio Defense Physical Science and Technology Conference*, New Orleans, LA, Nov. 17-21.

56. **Kijewski-Correa, T.**, Su, S.[G] and Cycon, J.[G] (2008) "System Identification in Wired, Wireless and Hybrid Architectures," *Proceedings of 5th International Engineering and Construction Conference (IECC'5*), UC Irvine, August 27-29.
57. Meyers, K., Ohland, M., Silliman, S., McWilliams, L. and **Kijewski-Correa, T**. (2008), "Comparison of Two Peer Evaluation Instruments," *Proceedings of 2008 ASEE Conference*, AC 2008-674.
58. **Kijewski-Correa, T**., Taciroglu, E. and Beck, J.L. (2008), "System Identification of Constructed Facilities: Challenges and Opportunities Across Hazards," *Proceedings of Structures Congress*, Vancouver, Canada, CD-ROM. (Presenter)
59. Oshnack, M.[U] and **Kijewski-Correa, T.** (2007), "A Cross-Hazard Approach to Structural Design: Lessons From Reconnaissance and Prescriptive Codes," *Proceedings of Challenges and Opportunities for Sustainability*, ECI, November 7-9, Naples, FL (REU Student Poster).
60. **Kijewski-Correa, T.** and Cycon, J.[G] (2007) "System Identification of Constructed Buildings: Current State-of-the-Art and Future Directions," *Proceedings of SHM-II 2007*, November, Vancouver, Canada. (Presenter)
61. Su, S.[G] and **Kijewski-Correa, T**. (2007) "On the Use of a Bivariate Regressive Adaptive INdex for Structural Health Monitoring," *Proceedings of SHM-II 2007*, November, Vancouver, Canada. (Presenter)
62. **Kijewski-Correa, T.** and Kareem, A. (2007), "Monitoring Serviceability Limit States in Civil Infrastructure: Lessons Learned from the Chicago Full-Scale Monitoring Experience," *Proceedings of 6th International Workshop on Structural Health Monitoring,* September 11-13, Stanford University.
63. **Kijewski-Correa, T.,** Pirnia, J.D.[G], Bashor, R., Kareem, A., Kilpatrick, J., Young, B., Galsworthy, J., Isyumov, N., Morrish, D. and Baker, W. (2007) "Full-Scale Performance Evaluation of Tall Buildings Under Winds," *Proceedings of 12th International Conference on Wind Engineering*, July 2-6, Cairns, Australia, vol. 1, pp. 351-358. (Presenter)
64. Su, S.[G] and **Kijewski-Correa, T**. (2007) "Performance Verification of Bivariate Regressive Adaptive Index for Structural Health Monitoring," *Proceedings of SPIE Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring,* March 18-22, San Diego, CA.
65. Erwin, S.[G], **Kijewski-Correa, T.** and Yoon, S.-Y., (2007) "Full-Scale Verification of Dynamic Properties from Short Duration Records," *Structures Congress 2007,* May 16-19, Long Beach, CA.
66. Pirnia, J.D.[G], **Kijewski-Correa, T.**, Abdelrazaq, A., Chung, J., and Kareem, A., (2007) "Full-Scale Validation of Wind-Induced Response of Tall Buildings: Investigation of Amplitude-Dependent Dynamic Properties," *Structures Congress 2007,* May 16-19, Long Beach, CA.
67. Toguchi, S.[U], and **Kijewski-Correa, T.,** (2006) "Improved Design of Residential Housing in Tsunami-Prone Regions: Quantification of Load Effects," *2006 Southern California Conference on Undergraduate Research (SCCUR),* November 18, Occidental College, Los Angeles, CA.
68. **Kijewski-Correa, T.**, Su, S.[G], Abittan, E., and Antsaklis, P. (2006) "On the Use of Heterogeneous, Wireless Sensor Networks for Damage Assessment in Bridges Under

Unknown Excitations," *Fourth World Conference on Structural Control and Monitoring (4WCSCM)*, July 11-13, San Diego, CA. (Presenter)

69. **Kijewski-Correa, T.** and Kochly, M.[G] (2006) "Practical Considerations for Global Positioning Systems in Urban Zones," *Fourth World Conference on Structural Control and Monitoring (4WCSCM)*, July 11-13, San Diego, CA. (Presenter)
70. Bashor, R.E., **Kijewski-Correa, T.L.,** Kochly, M.C.[G] and Kareem, A. (2006) "Full-Scale Monitoring of Wind-Induced Response of Tall Buildings," *Fourth World Conference on Structural Control and Monitoring (4WCSCM)*, July 11-13, San Diego, CA.
71. Kochly, M.[G] and **Kijewski-Correa, T.** (2006) "Experimental Verification of a GPS Network: Characterization and Removal of Multipath Effects," *Proceedings of SPIE International Symposia on Smart Structures & Materials/NDE*, February 26-March 2, San Diego.
72. **Kijewski-Correa, T.**, Haenggi, M. and Antsaklis, P. (2005) "Multi-Scale Wireless Sensor Networks for Structural Health Monitoring," *Proceedings of SHM-II'05*, Nov. 16-18, Shenzhen, China.
73. **Kijewski-Correa, T.**, Young, B., Baker, W.F., Sinn, R., Abdelrazaq, A., Isyumov, N. and Kareem, A. (2005) "Full-Scale Validation of Finite Element Models for Tall Buildings," *Proceedings of CTBUH 7th World Congress*, New York, Oct. 16-19.
74. Abdelrazaq, A., **Kijewski-Correa, T.**, Song, Y.-H., Case, P., Isyumov, N. and Kareem, A. (2005) "Design and Full-Scale Monitoring of the Tallest Building in Korea: Tower Palace III," *Proceedings of 6th Asia-Pacific Conference on Wind Engineering*, Seoul, Korea, 12 - 14 September.
75. Kwon, D.K., **Kijewski-Correa, T.** and Kareem, A. (2005) "e-Analysis/Design of Tall Buildings Subjected to Wind Loads," *Proceedings of Americas Conference on Wind Engineering*, Louisiana State University, May 31-June 4.
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8.0 Other Publications & Research Products

Roles in Collaborative Work Listed in Section 8.0	
Primary Contributor	Responsible for conceptualization of study and methodological design; primary responsibilities for data collection, analysis/processing and/or documentation, with other authors/developers assisting/supporting this role.
Secondary Contributor	Equal contributor to conceptualization of study and methodological design; significant responsibilities for data collection, analysis/processing

	and/or documentation, with process managed by the lead author/developer.
Supporting Contributor	Made contributions to methodological design, data collection, analysis/processing and/or documentation, but those contributions are intended to support the work of other collaborators who are area leads and thus assume primary responsibilities for the study.
Coordinator	Did not contribute to methodological design, data collection, analysis/processing and/or documentation, but provided editorial review and supported dissemination, curation, and/or project management as project PI/publisher
Order of authors dedicated by StEER Guidelines. Citation format matches the formatting native to the DOI generated by DesignSafe. Authors on publications include faculty, students (graduate and undergraduate), postdoctoral scholars, staff and software developers across units at Notre Dame, as well as other institutions.	

Curated Datasets:

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1. **Kijewski-Correa, T.** "Italy Quake Highlights Our Vulnerability to Disaster," CNN | Opinion, August 25, 2016 (http://www.cnn.com/2016/08/25/opinions/italy-quake-and-our-vulnerability-to-disaster-kijewski-correa/)
2. **Kijewski-Correa, T.** "Blurred Lines: Professor, Engineer, Mother," The Chronicle of Higher Education, Advice, April 13, 2016 (http://www.chronicle.com/article/Blurred-Lines-Professor/236086)

Blogs

1. Kijewski-Correa, T. (2021) "Disaster recovery in Haiti: a case for prudence and patience," *Dignity and Development,* Keough School of Global Affairs, July 20, 2021 https://keough.nd.edu/disaster-recovery-in-haiti-dd/
2. Kijewski-Correa, T. (2020) "A time for rainy day decisions—before the next downpour comes," *Dignity and Development,* Keough School of Global Affairs, May 12, 2020 https://keough.nd.edu/a-time-for-rainy-day-decisions-before-the-next-downpour-comes/
3. Kennedy, A and **T. Kijewski-Correa** (2016) "A Close-Up Look at Southwestern Haiti, Post-Hurricane Matthew," *Weather Underground,* December 16, 2016 https://www.wunderground.com/blog/JeffMasters/a-closeup-look-at-southwestern-haiti-posthurricane-matthew.html

Technical Magazine Articles:

1. Kijewski-Correa, T. (2009), "Full-Scale Monitoring: Three Lessons from a Chicago Program," *STRUCTURE Magazine*, November: 14-17.
2. **Kijewski-Correa, T.** and Kareem, A. (2003), "The Height of Precision," *GPS World*, **14**(9): 20-34.

Book Reviews:

1. **Kijewski-Correa, T.** (2005). "Advances in Smart Technologies in Structural Engineering (Holnicki-Szulc, C.A. Mota Soares, Eds.)," *IEEE Transactions on Automatic Control*, **50** (11): 1917-1918.

Technical Reports:

1. Erwin, S.,[G] **Kijewski-Correa, T.** and Yoon, S.W. (2006) *Analysis of Korean Reinforced Concrete Building Data*. DYNAMO Report 061130, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN.
2. **Kijewski-Correa, T.**, Pirnia, D.[G], Su, S.[G], Kochly, M.[G] and Descary, A.[U] (2005) *Vibration Characteristics of the University of Notre Dame Science Learning Center Rooftop Observatory Area.* DYNAMO Report 050728, Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN.
3. **Kijewski, T.** and Kareem, A. (2000), "Estimation and Modeling of Damping and Engineering Auxiliary Damping Systems in Civil Engineering Structures: An Overview," NatHaz Modeling Laboratory Report to ASCE Committee on Wind Effects.

9.0 Invited Lectures and Addresses

External Presentations (Keynote addresses listed separately in Section 4, does not include conference presentations, which are indicated next to the publication in Sections 6-7)

1. **Invited Panel:** "Learning from Disasters: Using Post-Event Reconnaissance to Ensure Safer Families through Stronger Homes," *2022 National Disaster Resilience Conference (NDRC22),* Clearwater, FL, November 9, 2022.
2. **Invited Plenary:** "Advancing Parcel-Level Hurricane Regional Loss Assessments Using Open Data and the Regional Resilience Determination Tool," *NHERI SimCenter Symposium*, Austin, TX, November 4, 2022.
3. **Invited Panel:** "Recent Investments in Large-Scale Testing Facilities for Seismic and Windstorm Hazards," *Natural Hazards Research Summit*, Washington, DC, October 7, 2022.
4. **Invited Panel:** "Lifting the Curtain of Academic Publishing in Natural Hazards Research," *Natural Hazards Research Summit*, Washington, DC, October 7, 2022.
5. **Invited Presentation: "**From Research to Impact: How Collaborative Networks are Changing Hazards Research," *Natural Hazards Research Summit*, Washington, DC, October 6, 2022.
6. **Invited Presentation:** "Visioning Session: Future Research Needs and Priorities," *Natural Hazards Research Summit*, Washington, DC, October 6, 2022.
7. **Invited Workshop:** *Stakeholder Workshop on Organizing Post-Earthquake Reconnaissance to Optimize Impact*, EERI, Salt Lake City, July 1, 2022.
8. **Invited Panel:** "Coordination of Post-Earthquake Reconnaissance by the Research and Professional Communities," *Proceedings of the 12th National Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, Salt Lake City, UT, 29 June, 2022.
9. **Invited Workshop:** *NHERI Science Plan Workshop*, Arlington, VA, June 16-17, 2022.
10. **Invited Presentation:** "Responding to and Mitigating the Impacts," *Natural Hazards Summit*, Texas Academy of Medicine, Engineering & Science, Texas Tech University, May 16, 2022 (Video due to COVID)
11. **Invited Presentation:** "Increasing the Granularity and Fidelity of Hurricane Risk Assessment with Applications to Situational Awareness and Resiliency Planning," *National Academies of Engineering Section 4 Mini-Symposium on Extreme Events,* May 10, 2022 (online).
12. **Invited Webinar:** "EEFIT remote reconnaissance mission report: 2021 Haiti Earthquake," Earthquake Engineering Field Investigation Team (EEFIT), The Institution of Structural Engineers, December 14, 2021.
13. **Invited Webinar: "**Learning from Hurricane Michael," NHERI DesignSafe, Joint with David Roueche and Jeffrey Berman, November 3, 2021.
14. **Invited Lecture:** "Building Back Better: Barriers, Drivers and Opportunities on the Disaster Recovery Journey," Engineering School of Sustainable Infrastructure & Environment, Structures Graduate Student Seminar (SGSS), October 27, 2021 (online)
15. **Invited Speaker:** Workshop: Tools & Methods for Post Disaster Reconnaissance Missions, EPICentre, University College of London, October 20, 2021 (online)
16. **Invited Speaker:** "Rapid Community-Sourced Data Collection and Knowledge Synthesis after the 2021 M7.2 Haiti Earthquake," 2021 Haiti Earthquake Reconnaissance Briefing Webinar, Earthquake Engineering Research Institute, October 13, 2021 (online)
17. **Invited Public Lecture:** "Enhancing Cooperation Between Research and Practice: Opportunities for More Sustainable and Effective Disaster Recovery," Public Lecture,

17th World Conference on Earthquake Engineering, Sendai, Japan, September 26, 2021.

18. **Invited Panel:** "Human-Centered Data for Resilience: Japan and U.S. Perspectives and Possibilities," Natural Hazards Workshop, Online, July 13, 2021.
19. **Invited Seminar:** "Responding to the Knowing More, Losing More Paradox: Driving Proactive Mitigation Among Coastal Homeowners," Woods Hole Oceanographic Institution, Online, May 14, 2021
20. **Invited Panel:** "Community and Regional Models," in Identifying Data Guideline Needs for Community and Regional Resilience Modeling Workshop, March 19, 2021, Online, Organized by Center for Risk-Based Community Resilience Planning, NIST, FEMA/Hazus, NHERI SimCenter & DesignSafe-CI and University of Michigan.
21. **Spotlight Presentation:** "Climate-Aware Coastal Homeowners: Do They Exist?" in panel "Coastal Storm Effects in the Time of Climate Change," Virtual 2021 AAAS Annual Meeting, February 2021
22. **Invited Panel:** "Modeling the Dynamics of Tall Buildings Under Winds: From Historical Perspective to Recent Advances and Beyond," University of Birmingham and sponsored by the International Association for Wind Engineering (IAWE), December 3, 2020. (online) https://www.youtube.com/watch?v=gAw8vsbFim0&feature=youtu.be
23. **Invited Plenary:** "Predicting the Energy Dissipative Potential of Tall Buildings: Insights from Sustained Full-Scale Monitoring," EURDYN 2020, November 23, 2020 (delayed & virtualized due to COVID-19)
24. **Invited Webinar:** "Best Practices to Enhance the Quality, Discoverability, and Re-Use Potential for Post-Event
25. Reconnaissance Data," NHERI DesignSafe, November 11, 2020. https://youtu.be/xUyFJwZmyqM
26. **Invited Webinar:** "Coordinating After Natural Hazards to Document the Performance of the Built Environment: The Structural Extreme Events Reconnaissance (StEER) Network," NHERI Converge, October 23, 2020. https://youtu.be/EPBtl_UfPJ4
27. **Invited Participant:** Windstorm Extreme Event Research (WEER) Network - Planning Workshop, July 30-31, 2020 (online)
28. **Invited Participant:** MsRI-EQ: Conference to Identify Research Infrastructure Concepts for a National Full-Scale 200 mph Wind and Wind-Water Testing Facility, August 20-21, 2020 (online)
29. **Workshop Organizer/Facilitator:** Simulation and Data Needs to Support Disaster Recovery, NHERI SimCenter, January 30-31, 2020, UC Berkeley, Berkeley, CA, https://simcenter.designsafe-ci.org/knowledge-hub/workshops/
30. **Workshop Organizer/Facilitator:** Cross-Hazard Planning Workshop, StEER, January 18, 2020, UC Berkeley, https://www.steer.network/workshop
31. **Invited Plenary:** "Accelerating the Disaster Data to Knowledge Life Cycle through Coordinated Reconnaissance: The StEER Perspective," with David Prevatt, University of Florida and David Roueche, Auburn University, PEER Annual Meeting, UC Berkeley, January 17, 2020.
32. **Invited Speaker:** "Big Research – Understanding How to Better Motivate Homeowners," National Disaster Resilience Conference, FLASH, November 9, 2018.
33. **Plenary Speaker:** "Lessons Learned in Coordinated Structural Reconnaissance Efforts Following Hurricanes Harvey, Irma and Maria," Identifying New Frontiers for Rapid Reconnaissance, Natural Hazards Workshop - Researchers Meeting, July 11, 2018.

34. **Special Session:** "Confronting the Multiple Dimensions of Resilient and Sustainable Building Design**,"** with Aimee Buccellato, Alexandros Taflanidis, Charles Vardeman, Building Innovation 2018 Conference & Expo, National Institute of Building Sciences, Washington, DC, January 9, 2018.
35. **Invited Speaker:** "Visualization Environments for Rapid Risk Assessment to Enhance Situational Awareness and Planning Efforts," Day of Resiliency Symposium, Rowan University, June 16, 2017
36. **Conference Organizer & Co-Chair:** 2016 Bridges to Prosperity University Conference, Notre Dame, IN
37. **Invited Workshop Participant:** Setting a Broader Impact Innovation Roadmap, National Science Foundation, Arlington, VA, May 26-27, 2016.
38. Invited Workshop Participant, Sixth U.S.-Japan Workshop on Wind Engineering, Sanjo Conference Hall, University of Tokyo (Hongo Campus), Tokyo, Japan, 12-13 May 2016.
39. **Invited Speaker:** "Burj Khalifa: A Case Study in Client-Driven, Flexible Architectures for Long-Term Monitoring of Tall Buildings," Pontifical Catholic University of Chile, August 2015.
40. **Invited Speaker:** "A Vision for Integrating Disaster Data to Knowledge for the Enhancement of Community Resilience," CIGIDEN, Pontifical Catholic University of Chile, August 2015.
41. **Panel Organizer:** "Roundtable discussion Quantification of Perceived Vulnerability and Barriers to Recovery of the Urban Housing Sector in Post-Quake Haiti," Annual Conference, Haitian Studies Association, Notre Dame, IN.
42. **Invited Speaker:** "Structural Dynamics: A Practitioner's Guide to Understanding the Behavior of Tall Buildings," Day-Long Seminar, Structural Engineers Association of Illinois (SEAOI), Chicago, April 30, 2014.
43. **Invited Speaker:** "What We Can Learn from the 'Big Boys': The Case for Monitoring Urban Habitats," ASCE Seminar, University of Michigan, March 14, 2014.
44. **Invited Panelist:** "Resiliency Monitoring", EMI 2013, Evanston, IL, August 7, 2013.
45. **Invited Speaker:**"Virtual Communities," Sustainable Data Community Forum, Chicago, IL, July 19, 2013.
46. **Invited Speaker:** "Continuous Monitoring of Major Structures: Empowering End Users with Adaptive Platforms," Practical Health Monitoring for Transportation Structures, Transportation Research Board, 92nd Annual Meeting, Washington, DC, January 13, 2013.
47. **Invited Speaker:**, "Is There Hope for the 1 in 7? A Story of Empowerment in Post-Quake Haiti," Rensselaer Polytechnic Institute, November 6, 2012.
48. **Invited Speaker:** "Learning from the Big Boys: What a Decade of Full-Scale Monitoring Has Taught Us About the Performance of Tall Buildings in Urban Zones," Rensselaer Polytechnic Institute, Nov. 7, 2012.
49. **Conference Organizer & Co-Chair:** 2012 Joint Conference of the Engineering Mechanics Institute & 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability
50. **Invited Panelist:** "Human Perception of Motion in Wind-Excited Tall Buildings," Panel Discussion, Structures Congress 2012, Chicago, IL, March 30, 2012.
51. **Invited Speaker:** Walter P. Moore Webinar Series, "Wind-Induced Response of Tall Buildings: Closing the Gap between Design Predictions and Full-Scale Behaviors," August 9, 2011.

52. **Invited Speaker:** Chicago Committee on High Rise Buildings, 2011 Spring Seminar: "Wind Induced Building Movement," Chicago, Illinois, June 9, 2011
53. **Invited Participant:** "A Multi-Hazard-Resilient Residential Housing Model for Haiti: Rebuilding Communities and Livelihoods through Sustainable Partitioning," Sustainable Vision Kickoff Workshop, National Collegiate Inventors and Innovators Alliance, Alexandria, VA, March 23, 2011
54. **Invited Participant and Working Group Secretary:** "Leveraging Cyberinfrastructure to Achieve Hazard Resilient and Sustainable Communities: Lessons Learned in the Technology Adoption Life Cycle," US-Taiwan Workshop on the Advancement of Societal Responses to Mega-Disasters afflicting Mega-Cities, Taipei, May 6-7, 2010
55. **Invited Participant:** NEES Education, Outreach and Training Summer Workshop, Purdue University, June 18-29, 2010
56. **Invited Participant:** NSF Focus Group, Opening Science Gateways to Future Success, Chicago, IL, June 22-23, 2010
57. **Invited Speaker:** "Understanding Tall Buildings Under Wind: Full-Scale Dynamic Behaviors," NCSEA Webinar, May 21, 2009
58. **Invited Speaker:** "An Introduction to The Chicago Full-Scale Monitoring Program: ASCE's 2008 State-of-the-Art Award Winner," North Central Branch of the Indiana Section of the American Society of Engineers, Notre Dame, February 10, 2009.
59. **Invited Speaker:** "Performance Evaluation of Tall Buildings Under Winds: Insights from the Chicago Full-Scale Monitoring Program," NCSEA Winter Institute, Miami, January 24, 2008.
60. **Invited Speaker:** "Performance Evaluation of Tall Buildings Under Winds," Structural Engineers Foundation, Structural Engineers Association of Illinois, Union League Club, Chicago, IL, November 7, 2006 (Co-Presenter: Ahsan Kareem).
61. **Invited Speaker:** "An Overview of the Chicago Full-Scale Monitoring Program," Skidmore Owings & Merrill LLP, Chicago, October 20, 2004.
62. **Invited Speaker:** "Chicago Monitoring Project on Wind Effects," Illinois Institute of Technology, Department of Architecture, Chicago, May 1, 2004.
63. **Invited Speaker:** "Full-Scale Validation of the Wind-Induced Response of Tall Buildings: Updated Findings from the Chicago Monitoring Project," Chicago Committee on High Rise Buildings, Chicago, April 8, 2004.
64. **Invited Speaker:** "GPS: A New Tool for Structural Displacement Measurements," State of the Art Techniques for Monitoring and Protecting Historic Structures Symposium, Association for Preservation and Technology International, Columbia University, New York, March 27, 2004 (Co-Presenter: Ahsan Kareem).
65. **Invited Speaker:** "Time-Frequency Perspectives in Civil Engineering," Department of Structural Engineering, University of California San Diego, February 9, 2004.

Internal Presentations

1. **Invited Panel:** "Joint Hazard Mitigation in the Era of COVID-19: Implications for Design and Operation of the Built Environment," COVID-19: What Comes Next, Health and Well-being Initiative's Social Determinants of Well-being Taskforce, University of Notre Dame, December 4, 2020.
2. **Invited Speaker:** "A Career with Impact: 9 Strategies to Solve Problems that Matter," Advancement of Women in Science, November 4, 2020.
3. **Invited Speaker:** TedxUND: Dare to Discover the Innovator Within, April 28, 2018

4. **Keynote Speaker:** Notre Dame Board of Trustees, NYC Meeting, January 31, 2018.
5. **Invited Speaker:** "Informing Accompaniment through Research in Practice," *From Aid to Accompaniment: Rethinking the Delivery of Foreign Assistance*, 19 April 2016, Kellogg Institute for International Studies, University of Notre Dame.
6. **Invited Panelist:** "Building Inclusive Ecosystems," *Irish Impact Conference*, 28 October 2016, Gigot Center for Entrepreneurship, University of Notre Dame.
7. **Invited Speaker:** "Participation and Dignity—Method and Outcome," 2nd International Conference on Human Dignity and Human Development, Kellogg Institute for International Studies.
8. **Invited Speaker:** "Socially Responsible Engineering: Creating a Flourishing Career, by Helping Others Flourish," SWE 2015 Region H Conference, March 6-7, 2015.
9. **Invited Speaker:** "Perceived Vulnerability and Barriers to Recovery Among IDPs in Post-Quake Haiti: A Work in Progress," Kellogg Institute for International Studies, May 2015.
10. **Invited Speaker:** "An Empowerment Model for Sustainable Residential Reconstruction in Léogâne, Haiti, after the January 2010 Earthquake," Kellogg Institute for International Studies, University of Notre Dame, January 31, 2012.
11. **Invited Speaker:** "Development and Health in Haiti: How Foundations and Notre Dame's Haiti Program, Eck Institute, and College of Engineering are Fighting Disease and Building Infrastructure," University of Notre Dame Forum on Global Development, Washington DC, November 10, 2011.
12. **Invited Speaker:** , Kellogg Institute for International Studies, "Engineering as a Force for Good in the World," June 15, 2011.
13. **Keynote Speaker:** "Doctors Aren't the Only Ones Saving Lives," Hypatia Day, Saint Mary's College, Notre Dame, IN, February 26, 2011
14. **Invited Speaker:** "Haiti Earthquake: Lessons Learned and Hope for the Future," Challenges and Innovations Seminar Series, Notre Dame, IN, September 2, 2010
15. **Invited Speaker:** "Impact of Disasters on Society," University Club, University of Notre Dame, October 10, 2006.

Commercials

1. What Would You Fight For Commercial: Fighting to Protect Our Community, NBC (Aired Sept. 15, 2018)
2. What Would You Fight For Commercial: Fighting to Build Bridges, NBC (Aired 2015)

Podcasts

1. Employee Safety Podcast, AlertMedia, Released March 2, 2022.
2. DesignSafe Radio, StEER Response to Hurricane Dorian, NHERI NCO, Episode 61 (2019)

10. Grants and Sponsored Programs

Roles in Collaborative Work Listed in Section 10.0	
Principal Investigator (PI)	Responsible for conceptualization of study, authorship of proposal, and oversight of overall project execution, and compliance with reporting

	requirements of sponsor; additionally serves as technical lead on specific tasks, with co-investigators leading other tasks.
co-Principal Investigator (co-PI)	Significant contributions to conceptualization of study, authorship of proposal; additionally serves as technical lead on specific tasks, with co-investigators leading other tasks, all reporting to the PI.
Senior Personnel	Helped to conceptualize specific aspects of study, including authorship of parts of the proposal; serves as technical lead on specific tasks, with co-investigators leading other tasks, all reporting to the PI.
Collaborators on Grants include faculty, postdoctoral scholars, staff and software developers across units at Notre Dame, as well as other institutions. Total award as well as amount of subcontract to Notre Dame (when other institutions lead proposal) is reported.	

External Funding

Submitted

1. "NSF Engineering Research Center for Accelerating Intergenerational Resilience through Innovations in Equitable Technology & Policy (CARE)," Affiliated University Lead Personnel, Pre-Proposal, National Science Foundation, Engineering Research Centers (ERC), Submitted October 2022.

Funded

1. "US-Japan Workshop on Needs, Priorities and Partnerships to Advance Human-Centered Data for Resilience," NSF, $45,735, July 2022, 24 months (Role: PI)
2. "Supporting a Resilient Housing and School Recovery in Haiti," Lead Institution: GeoHazards International, Sponsor: World Bank Contract No. 7203159, $35,763, January 2022, 18 months (Role: co-PI)
3. "EAGER GERMINATION: Immersive Training Studio for Technology-Environment-Energy-Water-Society (TEEWS) Grand Challenges," NSF, $297,356, Sept 2022, 24 months (Role: co-PI)
4. "Mid-scale RI-1 (M1:DP): National Full-Scale Testing Infrastructure for Community Hardening in Extreme Wind, Surge, and Wave Events," NSF CMMI, Lead Institution: Florida International University, Total Award: $12,835,821, Notre Dame Subcontract: $271,156, 48 months, Submitted April 2021 (Role: Co-PI).
5. "Expanding Rapid Community-Sourced Damage Data Collection after the 2021 M7.2 Haiti Earthquake," Lead Institution: GeoHazards International, Sponsor: USAID/BHA & USGS, Total Award: $123,284, Notre Dame Subcontract: $39,581, Sept. 2021 (Role: Co-PI)
6. "NHERI Computational Modeling and Simulation Center (SimCenter)," NSF CMMI, Lead Institution: University of California Berkeley, Total Award: $9M, Notre Dame Subcontract: $301,175, 48 months, Submitted April 2021 (Role: Sr. Personnel, Lead of Hurricane Regional Simulation Working Group)
7. "EAGER: SAI: A Study of Mitigation Decisions for America's Coastal Residential Infrastructure," NSF SAI (invited submission), Lead Institution: Notre Dame, Total Award: $291,775, Sept. 2021-Aug. 2023 (Role: PI)

8. “An Integrated Framework to Accelerate the Data to Knowledge Life Cycle through Coordinated Reconnaissance following Natural Hazard Events,” NSF, Lead Institution: Notre Dame, Amount: $1,659,926, July 2021-June 2024 (Role: PI)
9. “EAGER: Joint Hazard Mitigation in the Era of COVID-19: Implications for Engineered Structures and Services,” NSF CMMI, Lead Institution: Rensselaer Polytechnic Institute, Total Amount: $299,824, Notre Dame Subcontract: $20,738, September 2020 - August 2022 (Role: Co-PI)
10. "Coastal Probabilistic Hazard Analysis," FEMA, Lead Institution: University of North Carolina-Chapel Hill, Total Amount: $900,000 (est), Notre Dame Subcontract: $224,116, September 2019 - August 2021 (Role: Sr. Personnel)
11. “EAGER: Operationalization of the Structural Extreme Events Reconnaissance (StEER) Network,” Lead Institution: Notre Dame, Amount: $418,351 (with supplements), October 2018-September 2021 (Role: PI)
12. “In-situ Validation of the Low-Frequency Deformations for a Vibration-Sensitive Building,” Vornado Realty Trust, Lead Institution: Notre Dame, Amount: $15,614, October 2017-March 2018 (Role: PI)
13. “Structural Wind Engineering Reconnaissance of Hurricane Harvey,” a supplement to “Collaborative Research: Geotechnical Extreme Events Reconnaissance (GEER) Association: Turning Disaster Data into Knowledge,” NSF, Lead Institution: University at California Berkeley, ND Subcontract Amount: $ 39,393, August 2017- July 2018 (Role: PI)
14. “RAPID: A Coordinated Structural Reconnaissance effort in Response to Hurricane Irma,” NSF, Lead Institution: Notre Dame, Amount: $80,110, October 2017-September 2019 (Role: PI)
15. NHERI Computational Modeling and Simulation Center (Collaborative),” NSF, Lead Institution: University of California Berkeley), Total Award: $10,949,973, Notre Dame Subcontract: $1,074,842, October 2016-August 2021 (Role: Sr. Personnel)
16. “RAPID: Assessment of the Multi-Hazard Performance of Load Bearing Wall Systems Following Sequential Disasters: A Case Study in Haiti Following Hurricane Matthew,” NSF, Lead Institution: Notre Dame, Amount: $24,983, December 2016 - November 2017 (Role: PI)
17. “Rapid Hurricane Risk Assessment and Decision Support to Enhance Response, Recovery, and Resilience in In New Jersey,” New Jersey Department of Community Affairs, Lead Institution: Notre Dame, Amount: $ 498,758, February 2017-August 2018 (Role: PI)
18. “RAPID: The Effects of Religiosity on Homeowner Responses to Natural Hazards: A Case Study in Haiti's Residential Sector,” NSF, Lead Institution: Notre Dame, Amount: $70,323, April 2017- March 2019 (Role: Co-PI)
19. “A Typology-Driven Damping Model for Tall Buildings Using Rapid Acquisition of In-Situ Observations,” Structural Engineers Foundation, Lead Institution: Notre Dame, Amount: $398,883, September 2015-August 2019 (Role: PI)
20. “A Green Resilience Framework to Support for the Design of Sustainable Buildings Under Multiple Hazards,” NSF, Lead Institution: Notre Dame, Amount: $398,883, September 2015 - August 2019 (Role: PI)
21. “A Multi-Hazard-Resilient Residential Housing Model for Haiti: Rebuilding Communities and Livelihoods through Sustainable Partitioning,” National Collegiate Inventors and

Innovators Alliance, Lead Institution: Notre Dame, Amount: $43,480, April 2011 - March 2014 (Role: PI).

22. “CDI-Type II: Open Sourcing the Design of Civil Infrastructure (OSD-CI),” NSF CBET, Lead Institution: Notre Dame, Amount: $1,450,000, September 2009 - August 2013 (Role: PI)
23. “Burj Dubai Building Movement Monitoring System,” Samsung Corporation, Lead Institution: Notre Dame, Amount: $130,000, September 2009-December 2013 (Role: Co-PI)
24. “Dynamic Properties of Apartment Building Based on Monitoring for the Justification of Structural Renovation,”Dankook University, Korea, Lead Institution: Notre Dame, Amount: $30,000, January 2008-December 2010 (Role: PI)
25. “Networked Sensing in Built and Natural Environments,” Congressional Directed Funding Initiative in collaboration with Crane Naval Surface Warfare Center, Lead Institution: Notre Dame, Amount: $2,200,537, August 2007-July 2008 (Role: Initially Co-PI, Elevated to PI due to personnel departure)
26. “VORTEX-Winds: A Virtual Organization for Reducing the Toll of EXtreme Winds,” NSF CBET, Lead Institution: Notre Dame, Amount: $199,764, October 2007-September 2009 (Role: Co-PI)
27. “Structural Health Assessment of Tower During Construction,” Samsung Corporation, Lead Institution: Notre Dame, Amount: $199,172, January 2007-December 2008 (Role: Co-PI)
28. “Networked Sensing in Built and Natural Environments,” Congressional Directed Funding Initiative in collaboration with Crane Naval Surface Warfare Center, Lead Institution: Notre Dame, Amount: $1,751,000, August 2006-July 2007 (Role: Initially Co-PI, Elevated to PI due to personnel departure)
29. “Performance Evaluation of Tall Buildings Under Winds: From Predictive Methods to Laboratory and Full-Scale Measurements,” NSF CMMI, Lead Institution: Notre dame, Total Award: $420,571, September 2006-August 2009 (Role: Co-PI)
30. “REU Site: Interdisciplinary Studies in Tsunami Impacts & Mitigation,” NSF EEC, Lead Institution: Notre Dame, Total Award: $329,418, June 2006-May 2009 (Role: PI)
31. “Dynamic Properties of Building Based on Monitoring for Diagnosis: Notre Dame Collaborative Phase,” Dankook University (Korea), Lead Institution: Notre Dame, Total Award: $20,000, January 2006-December 2008 (Role: PI)

Internal

1. “Coastal Homeowner Adaptation to a Changing Climate: A Study of Risk Awareness, Risk Reduction and Resilience” ND GAIN Index/Environmental Change Initiative, $100,000, Grant Year: 2017 (Role: Co-PI)
2. Kellogg Institute for International Studies Faculty Grants:
    a. “Toward a Global Inventory of Climate Adaptations Based on Local Ways of Knowing: A Comparative Study of Adaptive Capacity Among Vulnerable Populations in Bangladesh and Haiti,” Jointly funded by Environmental Change Initiative, $40,999, Grant Year: 2018-2019 (Role: PI)
    b. “New Modalities for Community-Driven Development through Autonomous Innovation: A Case Study in Human Centered Design by Local Agents in Haiti,” $9770, Grant Year: 2016-2017 (Role: PI)

c. “Retrofitting ‘The Bridge to Nowhere’: Redefining Post-Disaster Sheltering Programs for the Developing World”, $9600, Grant Year: 2014-2015 (Role: PI)
d. “In-Situ Technology Incubators to Accelerate Sustainable Development Solutions: Can the Communities We Serve Become Their Own Engines of Innovation?” $20,000, Grant Year: 2012-2013 (Role: PI)
e. “Empowering Haitian Recovery in the Urban Housing Sector: A Field Study on the Effectiveness of Technology Adoption Programming for Non-Expert Audiences,” $6450, Grant Year: 2011-2012 (Role: PI)

3. “CYBER-EYE: A Cyber-Collaboratory for National Risk Modeling and Assessment to Mitigate the Impacts of Hurricanes in a Changing Climate,” Strategic Academic Planning Committee, $999,816, July 2010-June 2013 (Role: PI)
4. “Restoration of Medium Scale Earthquake Simulator for Study of Structural and Soil Dynamics, Health Monitoring and Structural Control,” Equipment Restoration and Renewal Program, $67,894, Grant Year: 2005 (Role: PI)

11. Masters Projects Directed

i-Lab GPE Projects

Name	Project	GPE Year	Grad Year	Placement
Christine Chun	Sustainability of Water Smart Agricultural Practices in Guatemala’s Dry Corridor *Partner: Catholic Relief Services*	2022	2023	TBD
Aide Cuenca Narvaez		2022	2023	TBD
Anna Thomas		2022	2023	TBD
Alixandra Underwood		2022	2023	TBD
Michael Pikuza	Expanding Access to Adequate Homes through Value-Alignment in Market Systems *Partner: Terwilliger Center for Innovation in Shelter*	2022	2023	TBD
Hafsa Sheikh		2022	2023	TBD
Matthew Talamantes		2022	2023	TBD
Elise Verdooner		2022	2023	TBD
Marla Zgheib		2022	2023	TBD
Sebastian Bascom	Discovering Key Drivers to Long-Term Project Sustainability: A Case Study in Malawi for Multi-Faceted Natural Resource Management	2021	2022	TBD
Emily Kaplan		2021	2022	TBD
Lauren Oliver		2021	2022	TBD

Arthur Ssembajja	*Partner: Catholic Relief Services*	2021	2022	TBD
Andrew Caffro	Graduation from Chronic Need in Haiti: Analysis of Barriers, Drivers and Concepts *Partner: Catholic Relief Services*	2021	2022	TBD
Abigail Ginzburg		2021	2022	TBD
Lamarre Présuma		2021	2022	Institute for Educational Initiatives
Angelina Soriano		2021	2022	TBD
Jaclyn Biedronski	Community and Environmental Resources: Ensuring Sustainability (CERES) Toolset *Partner Organization: Chemonics International*	2020	2021	Pulte Institute
Belen Carriedo		2020	2021	Peace Corps Office of Inspector General
Eleanor Jones		2020	2021	TBD
Syeda (Fiana) Arbab	Home Beyond Walls: Understanding Perceptions of Home among Displaced Disaster-Affected Populations *Partner Organization: Catholic Relief Services*	2020	2021	Oxfam
Sofia Piecuch		2020	2021	World Youth Alliance
Kara Venzian		2020	2021	Chemonics
Mayra Garcia	Designing for Shelter Behavior Change (DSBC) *Partner Organization: Habitat for Humanity International, Terwilliger Center for Innovation in Shelter*	2019	2020	Freelance consultant
Joshua Pine		2019	2020	National League of Cities
Raushan Zhandayeva		2019	2020	PhD George Washington Univ.
Brian Hickey	Judging the Moment: Entry Points to Self-Recovery (EPSR) *Partner Organization: Catholic Relief Services*	2019	2020	Office of Human Dignity (Diocese of Joliet)
Belen Zanzuchi		2019	2020	Migration Policy Institute
Jenna Ahn	Shelter Pre-Crisis Market Analysis	2018	2019	Catholic Relief

	Partner Organization: Terwilliger Center for Innovation in Shelter, Habitat for Humanity International			Services
Juanita Esguerra-Rezk		2018	2019	Peace Accords Matrix, Kroc Institute
Steven Wagner		2018	2019	National Committee on US-China Relations
Chista Keramati	Challenges and Opportunities in Mainstreaming Gender into Climate Change Policy and Practice in Bangladesh *Partner Organization: Bangladesh Centre for Advanced Studies*	2018	2019	enFocus
Jamie McClung		2018	2019	Teach for America

MGA Directed Research

Name	Project	Dates
Eric Canales	Expanding Rapid Community-Sourced Damage Data Collection after the 2021 M7.2 Haiti Earthquake	2021-2022
Gabor Holtzer	US-Japan Workshop on Needs, Priorities and Partnerships to Advance Human- Centered Data for Resilience	2021-2022

Masters of Science in Civil Engineering/ESTEEM Theses

Name	Project	GPE Year	Grad Year	Placement
Christianos Burlotos (co-Advisor)	Advancing Resilience in Urban Residential Construction: Formalizing Housing Design and Delivery in the Developing World	N/A	2020	Martin/Martin, Inc.
Erik Jensen	Performance Evaluation of Concrete Wall Panel-Frame Housing System for Informally Constructed Environments: A Case Study in Design Innovation for Haiti	N/A	2016	RocketSpace

Kevin Fink	Contributions to Risk Assessment of Residential Masonry Structures in Developing Nations: Review of Vulnerabilities and Development of a Unified Analytical Modeling Framework	N/A	2016	Pulte Institute for International Development
Tara Weigand*	Performance-Based Habitability Design and Assessment of Tall Buildings Using Full-Scale Data	N/A	2016	City of South Bend
Sally Williams	Modernizing the System Hierarchy: A Data-Driven Approach to System Characterization	N/A	2014	Wexler and Associates
Dustin Mix	Empowerment Model for Post-Quake Reconstruction of Urban Housing in Haiti	N/A	2013	Invanti
Dustin Mix	Engineering2Empower: Building Homes, Building Businesses, Building Communities (ESTEEM)	N/A	2013	Invanti
John LaBarge	Rapid Infrastructure Digitization to Support High-Fidelity Hurricane Risk Assessment	N/A	2012	Clark Construction
Jonathan Rager	Real-Time Detection of Plume Boundaries in a Chemical, Biological or Radiological Event	N/A	2009	Unknown
J. David Pirnia	Full-Scale Dynamic Characteristics of Tall Buildings And Impacts on Occupant Comfort	N/A	2009	Skidmore Owings and Merrill
Jennifer Cycon	Design and Validation of a Real-Time Structural Health Monitoring System Interfacing Through a Local Area Network	N/A	2008	Thornton-Tomasetti
Stephen Erwin	Extraction of Full-Scale Dynamic Properties from Short Duration Records	N/A	2009	Miyamoto International
Michael Kochly	Validation of Global Positioning Systems for Monitoring Civil Infrastructure Systems:	N/A	2006	HDR Engineering

	Performance Assessment and Removal of Multipath Effects			

- MSCE Committees: D. Brown (2003), T. Williams (2003), A. Vorwerk (2004), B. Morgen (2004), M. May (2006), E. Kerr (2006), K. Walsh (2009), A. Lamprou (2011), T. Wu (2012), M. Cowan (2013), C. Quaglia (2014)
- MSEE Committees: E. Abittan (2006)
- ESTEEM Committees: M. Zheng (2012)

12. Doctoral Theses Directed

Name	**Project**	**Year**	**Placement**
Rachel Hamburger	Tentative: Advancing Policy Learning After Disasters: The Role of Field Observations & Targeted Advocacy	T-2026	TBD
Karen Angeles**	Advancing Multi-hazard Performance Assessments from Parcel to Regional Scale: A Data-Driven Approach to Wind Hazards Impacts on Commercial Buildings	2023	Verisk Analytics
Andrew Bartolini*	Advancements in Full-Scale Monitoring Hardware for Improved Modeling of Tall Buildings: A System Behavior Perspective	2018	University of Notre Dame
Audrey Bentz	Predictive Models for Damping: Insights from Full-Scale Data and Structural System Characteristics	2012	Magnusson Klemencic Associates (MKA)
Su Su	Decentralized Damage Detection in Civil Infrastructure Using Multi-Scale Wireless Sensor Networks	2012	BOA Marine Services
T: Tentative *Winner of 2015 Ammann Fellowship (ASCE), 2015-2016 SEF Graduate Fellowship **recipient of NSF Fellowship and O.H. Ammann Fellowship in 2018			

PhD Committees: N. Feng (CE TBD), L. Hu (CE TBD), D. Patsialis (CE 2022), C. Venable (CE @ Colorado Boulder, 2020), H. Jiang (CE 2009), L. Wang (CE 2007), L. Kerr (CE 2007), R. Bashor (CE 2011), Q. Shen (CE 2006), K. Butler (CE 2010), P. Mikrut (AME 2012), B. Smith (CE 2012), B. Sumanasena (EE 2011), T. Wu (CE 2014), Z. Zhai (CSE 2012), G. Jia (CE 2014), K. Muller (CE 2017), R.K. Yellavajjala (CE 2014), Y. Guo (CE 2015), S. Barbachyn (CE TBD), R.

Ruiz (CE 2015), M. McCullough (CE 2016), H. Ferguson (CSE 2017), M. Gibbs (CE 2017), R. Alberti (CE 2018)

13. Professional Memberships

- American Society of Civil Engineers (ASCE), Associate Member
- Structural Engineering Institute, ASCE, Member
- Earthquake Engineering Research Institute, Member
- American Association for Wind Engineering, Member
- American Association for the Advancement of Science (Member)
- Council on Tall Buildings and Urban Habitat (Former Member)

14. Undergraduates Advised

Current Advisees & Past Advisee Projects Culminating in Major Product or Award		
Name	**Project**	**Period**
Angelique Mbabazi (Kellogg Scholar)	Expanding Rapid Community-Sourced Damage Data Collection after the 2021 M7.2 Haiti Earthquake	2021-2023
Amina Meselhe, Lehigh University (NHERI REU Program)	Validating the In-Situ Performance of Residential Construction for Design-Level Events: A Case Study of Hurricane Laura	Summer 2021
Meredith Lochhead (Kellogg Scholar)	Assessment of Damage to Residential Construction in the Landfall Region of Hurricane Florence Code-Based Rulesets to Classify Building Vulnerability in Regional Hurricane Risk Assessments Expanding Rapid Community-Sourced Damage Data Collection after the 2021 M7.2 Haiti Earthquake	2018-2019 2019-2020 2021-2022
Anne Foley (Kellogg Scholar)	Barriers to Recovery Following Major Disasters: A Study of Homeowners in Post-Disaster Haiti	2019-2021
Aisha Tunkara (Kellogg Scholar)	Toward a Global Inventory of Climate Adaptations Based on Local Ways of Knowing: A Case Study in Haiti	2020-2021
Meredith Wilson (Kellogg Scholar)	Joint Hazard Mitigation in the Era of COVID-19: Implications for Engineered Structures and Services	2020-2021
Mary Griffin	Joint Hazard Mitigation in the Era of COVID-19:	2020-2021

	Implications for Engineered Structures and Services	
William Cunningham, Hannah Gillespie, Grace Schippers, Mary Solokas	Grand Challenges Scholars Program: Innovative Pathways to Improving Water Quality in Post-Earthquake Haiti (Grand Challenges Scholars Program, Solokas: Kellogg International Scholar)	2018-2020
Brendan Woods	Assessment of Damage to Residential Construction in the Landfall Region of Hurricane Harvey	Spring 2018
Matthew Musetich	Assessment of Damage to Residential Construction in the Landfall Region of Hurricane Harvey	2017-2018
Hannah Gillespie (Kellogg Scholar)	The effects of religiosity on homeowner responses to natural hazards: A case study in Haiti's residential sector	2017-2018
Isabella Delgado-Castillo, Thomas Walsh	Green Resiliency Framework: Integrated Life Cycle Analysis of Buildings Under Multiple Hazards	Spring 2018 Fall 2018
Camila Gonzalez Flores	StEER Operationalization and 2018 Hurricane Season Rapid Data Screening	Fall 2018
Mary Solokas (Kellogg Scholar)	Enabling Community-Led Innovation through Design Thinking: the Innovation Clubs of Leogane, Haiti	2017-2018
Christianos Burlotos (Kellogg Scholar)	Improving Pathways to Homeownership in Haiti: A Case Study in Financial Literacy Programs	2015-2018
Patrick Zimmer (Kellogg Scholar)	Improving Pathways to Homeownership in Haiti through Micro-Development	2017-2018
Sarah Pieslak (Kellogg Scholar)	A Human-Centered Approach to the Design of Dignified Sanitation Solutions in Haiti	2016-2019
Eric Duarte	Enhancing Beneficiary Selection in Rural Development Projects Using Open Geospatial Data: A Case Study for Footbridge Projects in Nicaragua (CUSE Endeavor Project)	2017
Marlena Fernandez	A Green Resilience Framework to Support the Design of Sustainable Buildings Under Multiple Hazards: Revit Modeling & Benchmarking (Claire Booth Luce Fellow)	2016-2017
Olivia August	Design and Piloting of a Community Needs Assessment Tool in Rural Nicaragua (Kellogg	2016

	International Development Studies Minor, Thesis)	
Maria Ines Aranguren	Design and Operationalization of Needs Assessment Tool: A Case Study for Rural Footbridges in Nicaragua (CUSE DaVinci Grant)	2016
Adam Logeman	The Effects of Societal Systems on the Hazard Vulnerability of Low-Income Housing: A Case Study in Rural Nicaragua (Kellogg International Development Studies Minor, Thesis)	2015
Erich Jegier	Utilizing Participatory Design to Bring a Positive Change to a Rural Nicaraguan Community (CUSE DaVinci Grant)	2015
Karen Angeles (UCSD)	Experimental Validation of an Innovative Cladding and Partitioning System for Reinforced Concrete Homes in Post-Quake Haiti (ND Summer Research Opportunities Program)	2015
Nicolás Alfonso Guzmán Soto (Universidad de Concepción, Chile)	Data Mining Strategies to Support Long-Term Monitoring of Critical Infrastructure (International Exchange Program)	2014
Jacqueline Gilhooly	Engineering 2 Empower: An Empowerment Model to Address Permanent Residential Rebuilding in Urban Leogane, Haiti (Engineering Honors Thesis)	2011-2012

Past Students:

1. Kevin Bott, University of Notre Dame, *Full-Scale Data Analysis for Chicago Full-Scale Monitoring Project*, 2004-2005.
2. Joseph Pomerenke, University of Notre Dame, *Full-Scale Data Analysis for Boston Hancock,* 2004-2005.
3. Kevin Haas, University of Notre Dame, *Next Generation GPS for Monitoring Civil Structures in Urban Zones,* 2005.
4. Andrew Descary, California Polytechnic State University, *Next Generation GPS for Monitoring Civil Structures in Urban Zones,* 2005.
5. Jim Hagemann, University of Notre Dame, *Full-Scale Data Analysis for Boston Hancock,* 2005-2006.
6. Peter Sweeney, University of Notre Dame, *Full-Scale Data Analysis for Chicago Full-Scale Monitoring Project*, 2005.
7. Bria Whitmire, University of Texas, San Antonio, *Improved Residential Construction in a Tsunami Zone: Quantification of Design Capacity,* ISTIM Program, Summer 2006.
8. Stacey Toguchi, Loyola Marymount University, *Improved Design of Residential Housing in Tsunami-Prone Regions: Quantification of Load Effects*, ISTIM Program, Summer 2006.

9. Manuel Nuno, University of Notre Dame, *Effect of Baseline Positioning on GPS Displacements*, 2006-2008.
10. Anna Lacey, University of Notre Dame, *Documentation and Databasing of Tsunami Damage and Reconnaissance Studies in Thailand*, 2006-2007.
11. Mary Beth Oshnack, University of Pittsburgh, *A Multi-Hazard Approach to Structural Design: Lessons from Reconnaissance and Prescriptive Codes*, Summer 2007.
12. Ellen Heintzman, University of Notre Dame, *Full-Scale Evaluation of a Tall Building in Korea*, Spring 2008.
13. Elaine Huffman, Virginia Tech University, *Performance of Schools and Other Essential Facilities in Natural Disasters,* Summer 2008.
14. Juan Pando Balandra, University of Notre Dame, *Experimental Validation of Bivariate Regressive Adaptive Index for Damage Detection,* Summer 2008.
15. Bethany Noble, University of Notre Dame, *Use of Cyberinfrastructure to Aid in the Mitigation of Natural Disasters*, 2008-2010.
16. Avery Ambrose, University of Notre Dame, *Finite Element Modeling of Central Plaza in Hong Kong,* Spring 2009.
17. Michael Wodarcyk, University of Notre Dame, *Finite Element Modeling of Boston Hancock Tower,* Spring 2009.
18. Antonio Ayala, University of Notre Dame, *Anomaly Detection and Correction in Full-Scale GPS Data,* 2009-2010.
19. Jonathan Barry, University of Notre Dame, *Fatigue Detection in Flexible Masts Under Wind*, Spring 2010.
20. Peter J. Koppel, University of Notre Dame, *Finite Element Modeling of Bank of China,* Spring 2010.
21. Enrique Descamps, University of Notre Dame*, Modeling of Soil-Structure Interaction in Tall Buildings,* Spring 2010.
22. Benjamin Mall (REU), University of Notre Dame, *Open-Sourcing the Design of Civil Infrastructure*, Spring 2011.
23. Sally Williams, University of Notre Dame, *Mitigation of Multipath Effects in Tall Buildings,* 2011-2012
24. Carolyn Quigley, University of Notre Dame, Database Development for Modern Tall Buildings Systems, 2012-2013
25. Brad Geyer, University of Notre Dame, *Data Processing of Historical Records of the Boston Hancock*, Spring 2013
26. Dylan Scarpato, University of Notre Dame, *Data Processing of Historical Records of the Boston Hancock*, Spring 2013
27. Omar Garcia, University of Notre Dame, *Digitization of Infrastructure from Image Data*, Spring 2013
28. Erik Jensen, University of Notre Dame, *Digitization of Infrastructure from Image Data*, Spring 2013
29. Kevin Stewart, University of Notre Dame, *Digitization of Infrastructure from Image Data*, Spring 2013
30. Martin Le, University of Notre Dame, *Digitization of Infrastructure from Image Data*, Spring 2013
31. Nicholas Sikorski, University of Notre Dame, *Crowdsourcing Damage Assessments of Infrastructure Using Reconnaissance Photographs*, 2012-2013

32. Buster Sheridan, *Classification of Tall Buildings Using Unified Vernaculars Project,* 2015-2016
33. Michael Brandes, Data Mining Strategies to Support Long-Term Monitoring of Critical Infrastructure Project, 2014
34. Ryan Shea, Data Mining Strategies to Support Long-Term Monitoring of Critical Infrastructure
    Project, 2013-2014
35. Dylan Scarpato, Crowd-Sourcing Photo-Classification from Post-Disaster Reconnaissance
    Project, 2014
36. Eric Lifka, Quantifying the Performance of Tiltmeters for long-term monitoring of tall buildings: Validation of Novel Sensor Technologies for Data Acquisition, 2015-2017
37. Abe Corral, Design & Fabrication of 3D Printed Prototypes of Tall Buildings for Experimental Validation of Behavioral Descriptors and Tiltmeter Measurements, 2015-2017

Engineering2Empower Undergraduate Participants

Laura Bobich, Matthew Colturi, Michelle Espinal, Sarah Finke, Charlie Geary, Logan Lally, Daniela Lugo, Brittany Margritz, Khaoula Morchid, Emily Strout, Savannah Washlesky, Jasmine Bruning, Kevin Fink, Bryan Graveline Erik Jensen, Adam Logeman, Madalyn Sowar, Tim Woodcock, Daniel Rish, Brian Calcutt, Angelene Dascanio, Victoria Pereria, Matt Kirian, Dan Courtney, Quinn O'Heeney, Ethan Zartman, Kaleigh McLaughlin, Jon Schommer, Paul Gigioli, Casey Skevington, Caroline Bernardi, Deandra Cadet, Jacqueline Gilhooly, Kelsey Haddad, Ryan Kavanagh, Ben Keller, John LaBarge, Dan McGeever, Kaleigh McLaughlin, Meggan Muller, Ellen Quigley, Megan Reineccius, Alex Wallach, Anna Wanzek

15. Courses Instructed

Course No.	Course Title	Term	Enrollment	CIF Composite Median
*COVID-modified teaching conditions; Provost-Approved Exclusion of student evaluations.				
CE 45640/ CE 35610	Engineering for International Development I	Fall 2022	12	4.3
MGA 60008	i-Lab III: Analysis & Strategy	Fall 2022	22	4.8
CE 45640/ CE 35610	Engineering for International Development I	Spring 2022	11	5.0
MGA 60007	i-Lab II: Preparing for the Field	Spring 2022	29	4.6
CE 45640/ CE 35610	Engineering for International Development I	Fall 2021	11	5.0
MGA 60008	i-Lab III: Analysis & Strategy	Fall 2021	19	4.5
CE 45640/ CE 35610	Engineering for International Development I	Spring 2021	11	5.0
MGA 60007	i-Lab II: Preparing for the Field	Spring 2021	19	4.7
MGA 60754-02	Entering into Professional Partnerships	Wintersession 2021	9	4.2
MGA 60754-02	Entering into Professional Partnerships	Wintersession 2021	7	4.8

CE 45640	Engineering for International Development I	Fall 2020	11	5.0	
MGA 60008	i-Lab III: Analysis & Strategy	Fall 2020	20	4.5	
CE 35610	Engineering for International Development I	Spring 2020*	6	5.0*	
CE 45640	Engineering for International Development I	Spring 2020*	5	4.8*	
MGA 60007	i-Lab II: Preparing for the Field	Spring 2020*	20	4.9*	
MGA 60008	i-Lab III: Analysis & Strategy	Fall 2019	20	4.5	
CE 35610/45640	Engineering for International Development I	Fall 2019	12	5.0	
CE 35610/45640	Engineering for International Development I	Spring 2019	12	5.0	
CE 45620	Engineering for International Development II	Spring 2019	3	5.0	
MGA 60009	i-Lab IV: Amplifying Impact	Spring 2019	20	4.0	
MGA 60007	i-Lab II: Preparing for the Field	Spring 2019	20	4.1	
MGA 60006	i-Lab I: Innovative Approaches	Fall 2018	21	4.8	
MGA 60008	i-Lab III: Analysis & Strategy	Fall 2018	20	4.0	
CE 45610	Engineering for International Development I	Fall 2018	11	5.0	
CE 45620	Engineering for International Development II	Fall 2018	4	5.0	
CE 45610	Engineering for International Development I	Spring 2018	12	5.0	
MGA 60007	i-Lab II: Preparing for the Field	Spring 2018	19	4.3	
	Course	**Term**	**Enrollment**	**Composite Median**	**Effectiveness**
CE 45610	Engineering for International Development I	Fall 2017	13	4.8	4.9
KSGA 60006	i-Lab I: Innovative Approaches	Fall 2017	38	4.4	4.5
POLS 30596	International Development in Practice II (Co-Taught with Steve Reifenberg)	Spring 2017	13	4.2	4.4
CE 45610	Engineering for International Development I	Spring 2017	14	4.8	4.8
CE 45620	Engineering for International Development II	Spring 2017	3	4.8	5
CE 40240/ 60240	Structural Systems (Co-taught with Taflanidis)	Spring 2017	6	4.4	4.3
CE 45610	Engineering for International Development I	Fall 2016	11	4.8	5.0
CE 45620	Engineering for International Development II (Co-taught with Taflanidis)	Fall 2016	7	4.1	4.0
CE 45610	Engineering for International Development I	Fall 2016	13	4.8	4.9
CE 45620	Engineering for International Development II (Co-taught with Taflanidis)	Fall 2016	7	4.6	4.5
CE 40240/ 60240	Structural Systems	Spring 2016	14	4.3	4.5

CE 40280	Structural Steel Design (Flipped Classroom)	Fall 2015	43	4.7	4.8
CE 45610	Engineering for International Development I	Fall 2015	12	4.7	4.8
CE 45620	Engineering for International Development II (Co-taught with Taflanidis)	Fall 2015	6	4.5	4.8
CE 45610	Engineering for International Development I	Spring 2015	11	Not available	
CE 45620	Engineering for International Development II (Co-taught with Taflanidis)	Spring 2015	12	Not available	
CE 40240/60240: Structural Systems		F 2013	20	*Unplanned medical leave*	
CE 45600: ND SEED		F 2013	7	*Unplanned medical leave*	
CE 70250: Exp. Str. Dynamics		S 2013	5	4.1	4.3
CE 45600: ND SEED		S 2013	7	4.8	4.8
CE 40240/60240: Str. Systems		F 2012	46	4.2	4.3
CE 45600: ND SEED		F 2012	7	4.6	4.6
CE 45600: ND SEED		S 2012	6	4.4	4.8
CE 45600/35600/25600: ND SEED		F 2011	7	4.7	4.8
CE 40280: Structural Steel Design		S 2011	39	4.4	4.5
CE 45600/35600/25600: ND SEED		S 2011	7	4.3	4.4
CE 45600/35600/25600: ND SEED		F 2010	7	4.4	4.2
CE 40240/60240: Str. Systems		F 2010	26	4.5	4.8
CE 40280: Structural Steel Design		S 2010	23	4.5	4.9
CE 70250: Exp. Str. Dynamics		S 2010	4	4.7	5.0
CE 45600/35600/25600: ND SEED		S 2010	7	4.4	4.3
CE 40280: Structural Steel Design		S 2009	31	4.7	4.9
EG 10111: Intro to Eng Systems		F 2008	387	3.74	3.9
CE 40240/60240: Str. Systems		F 2008	17	4.3	4.3
FORMER TCE SYSTEM				**Q17**	
CE 70250: Exp. Str. Dynamics		S 2008		3.6	
CE 40280: Structural Steel Design		F 2007		3.6	
EG 10111: Intro to Eng Systems		F 2007		3.2	
CE 40280: Structural Steel Design		S 2007		3.6	
CE 40240/60240: Str. Systems		F 2006		3.7	
EG 10111: Intro to Eng Systems		F 2006		3.4	
CE 70250: Exp. Str. Dynamics		S 2006		3.8	
CE 40280: Structural Steel Design		F 2005		3.3	
CE 40240/60240: Str. Systems		S 2005		3.9	
CE 40280: Structural Steel Design		F 2004		3.2	
CE 70250: Exp. Str. Dynamics		S 2004		3.6	
CE 331: Prob/Stat Methods in Engineering		F 2003		3.8	

Bridges Constructed: Engineering for International Development I (Summer Session)

Year	Location	Span	No. Students
2022*	Río Uruchini in San Lucas, Nor Cinti, Chuquisaca, Bolivia	86 m	8
2021*	Guayabitos, Bolivia (Virtual supervision due to COVID-19 Travel Bans)	63 m	8
2020	Lubanjiswano, Eswatini (Virtual supervision due to COVID-19 Travel Bans)	48 m	8
2018*, 2019	Mallkuchusi, Bolivia (Two-Year Project)	98 m	8, 8
2017*	Las Pencas, Nicaragua	120 m	8
2016	Terrero Sur, Nicaragua	51 m	8
2015	Amayito, Nicragua	40 m	8

2014	Mata de Tule, Nicaragua	34 m	8
2013	El Sol, Nicaragua	42 m	7
*Engineers in Action Bridge Builder of the Year Award			

16. Service

Professional Service & Initiatives:

- Member, American Society of Civil Engineers (ASCE), Structural Engineering Institute (SEI)
    - Technical Activities Division, Executive Committee (2021-present)
    - Task Committee on the Performance-Based Design of Tall Buildings Under Wind, ASCE/SEI
    - Chair, Special Design Issues, Technical Administrative Committee, Structural Engineering Institute (ASCE) (2017-2021)
    - Tall Buildings Committee, ASCE/SEI
        - Chair (2012-2016)
        - Secretary (2003-2012)
        - Chair, Sub-Committee on Full-Scale Monitoring of Tall Buildings
        - Secretary, Sub-Committee on Occupant Comfort
    - Structural Identification of Constructed Systems Committee, ASCE/SEI
        - Chair (2014-2017)
        - Vice Chair (2012 – 2014)
        - Monograph Editor, Chapter Coordinator: Building Applications
- Inaugural Director, Structural Extreme Event Reconnaissance (StEER) Network (2018-present)
- Member, Leadership Corps, NHERI Converge (2019-present)
- Member, Planning Committee, NHERI Summit (2021-present)
- Lead, Working Group on Regional Simulation of Hurricane and Tsunami Hazards, NHERI SimCenter (2021-present)
- Member, Science Planning Committee, NHERI Network Coordination Office (2021-present)
- Member, Planning Committee, NHERI Summit (2021-2022)
- **Co-organizer, Mini-Symposium:**The Next Frontiers in Natural Hazards Engineering: Advancing the Vision of Ahsan Kareem, Engineering Mechanics Conference, Baltimore, MD, June 1, 2022.
    - **Mini-Symposium Keynote Address:** “Connecting the History and the Future of Tall Buildings,” Engineering Mechanics Conference, June 1, 2022.
- **Conference Co-Chair:** 2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012), Notre Dame, IN, June 17-20.
- **Editorial Board:** Wind Engineering and Science section, Frontiers in Built Environment (2021-present)
- **Guest Editor:** Natural Hazards Review, Special Collection on “Verification and Validation in Physical, Social, and Economic Community Resilience Modeling” (2021-2023)
- Editorial Board, *Journal of Structural Engineering*, ASCE (service concluded in 2017 due to change in research focus)

- Editorial Board, *Structural Control and Health Monitoring*, Wiley (service concluded in 2017 due to change in research focus)
- Reviewer Activities:
    - Journals: *ASCE Journal of Structural Engineering*, *Journal of Wind Engineering and Industrial Aerodynamics, Wind and Structures, ASCE Journal of Engineering Mechanics*, *Earthquake Engineering and Structural Dynamics, Journal of Sound and Vibration*, *Structural Safety, IEEE Transactions on Control Systems Technology, Computer-Aided Civil and Infrastructure Engineering, Measurement and Science Technology, Smart Materials and Structures, Journal of Structural Control and Monitoring, Structural Health Monitoring: An International Journal, Structure and Infrastructure Engineering, Natural Hazards Review*
    - National Science Foundation, Multiple Programs, CMS/CMMI Division
    - Research Grants Council, Hong Kong

Policy Community Service & Initiatives:

- Member, Compounding Disasters in Gulf Coast Communities, 2020-2021: Impacts, Findings, and Lessons Learned, National Academies Consensus Study (2022-2023)
- Chair, *US-Japan Workshop on Needs, Priorities and Partnerships to Advance Human-Centered Data for Resilience,* Japan Science and Technology Agency and US National Science Foundation (2022)

University Service:

- co-Chair, Poverty Theme Advisory Committee, Strategic Planning Framework (2022)
- Faculty Board on Athletics (2009-2012, 2020-present)
    - Academic Integrity Subcommittee (2020-present)
- Laetare Medal Selection Committee (2019 - 2021)
- AnBryce Scholars Program, Faculty Mentor (2015-2016)
- Member, Review Committee, Dean, School of Architecture (2013)
- Notre Dame Forum Committee (2011-2012)
- Initiative for Global Development Committee (2010-2011)
- Ad-Hoc Committee on Statistics (2006-2008)
- Ad-Hoc Committee on Haiti (2010)
- Valedictorian Selection Committee (2005-2008)
- Graduate Fellowship Reviewer, Graduate School (2010)
- Strategic Planning for Latin America and the Caribbean Committee (2010-2015)

Institute/Center Service:

- Fitzgerald Institute for Real Estate Faculty Committee (2017-present)
- Kellogg Institute Faculty Committee (2012-present)
- CUSE Affiliated Faculty (2012-2014)
- Kellogg Institute Grants Committee (2011-2012)
- Graduate Fellowship Proposal Reviewer, Center for Applied Mathematics (2005)

Keough School of Global Affairs Service:

- Dean's Leadership Council (2022-present)
- Academic Director (formerly co-Director), Integration Lab, Master of Global Affairs (2016-present)

- Master of Global Affairs, Leadership Team (2016-present)
- Master of Global Affairs Admissions
    - Global Affairs Concentration Sub-Committee (2017-2020)
    - Sustainable Development Concentration Sub-Committee (2021-2022)
    - Core Committee (2017, 2018, 2023)
- Committee on Tenure and Promotion (2017-Present)

College of Engineering Service:

- Presenter, Introduction to Engineering Program
- Engineering Honors Program, Committee (2007-2008)
- College Council, College of Engineering (2006-2009)
- Mentor, Building Bridges Program (2012-2009)
- Engineering Honors Program, Mentor (2005-2007)

Department of Civil & Environmental Engineering & Earth Sciences Service:

- Faculty Advisor, Notre Dame Students Empowering through Engineering Development (2011-present)
- Chi Epsilon Honor Society, Faculty Advisor (2007-2017)
- Department Committee on Appointments and Promotions (2009-Present)
- ABET Committee on Structural Engineering Curriculum: member (2003-2016), Chair (2008-2010)
- Structures Search Committee (2006-2010, 2020-present), Chair (2008-2010)
- Ad Hoc Committee on Sophomore Course Sequence (2008-2009)
- Graduate Studies Committee (2004-2005, 2005-2006)
- Advisor to Kiewit Construction Field Trip (Fall 2003)
- Hydraulics/Water Resources Search Committee (2008-2009)
- Linbeck Chair Search Committee (2003-2009)

Outreach Programs:

- Expanding Your Horizons Program, Breakout Session Leader (2002), Presenter (2003-2004, 2010), Steering Committee (2004-2010), Presenter Coordinator (2008-2010)
- Notre Dame Introduction to Engineering Program, Presenter (regularly since 2005)
- Upward Bound, Presenter (2004)
- Instructor, Ameritech Pre-college Minority Engineering Program (2000-2004)
- Lab Organizer, Ms. Wizard Day (2000-2003)
- Co-Organizer, Quakes and Shakes Outreach Program (2001-2002)

17. Post-Docs and Visiting Researchers Supervised

1. Nelson Duran, University of Notre Dame (2003-2005)
2. Dr. Sung Won Yoon, Seoul National University of Technology (2006-2007)
3. Mohammad Alam, University of Notre Dame (2022-present)