

## AMY JAVERNICK-WILL, Ph.D.

Professor

Nicholas R. and Nancy D. Petry Professor in Construction Engineering and Management

Department of Civil, Environmental, and Architectural Engineering

University of Colorado—Boulder

UCB 428, ECOT 512

1111 Engineering Drive

Boulder, CO 80309-0428

(303) 492-6769

[amy.javernick@colorado.edu](mailto:amy.javernick@colorado.edu)

### ACADEMIC BACKGROUND

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| Ph.D. (2009) | Civil Engineering, Stanford University<br>Construction Engineering and Management Program<br>Dissertation: <i>Mobilizing Institutional Knowledge for International Projects: The Relative Importance, Acquisition, and Transfer of Institutional Knowledge for International Firms</i><br>Advisor: Dr. Raymond Levitt |
| M.S. (2001)  | Civil Engineering, Construction Engineering and Management, University of Colorado at Boulder                                                                                                                                                                                                                         |
| B.S. (1999)  | Civil Engineering, University of Colorado at Boulder                                                                                                                                                                                                                                                                  |

### PROFESSIONAL EXPERIENCE

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|---------------------|----------------------------------------------------------------------------|
| Associate Dean      | College of Engineering and Applied Sciences<br>(AD of Faculty Advancement) |
| 2024 – Present      | University of Colorado at Boulder                                          |
| Professor           | Dept. of Civil, Environmental, and Architectural Engineering               |
| 2021 – Present      | University of Colorado at Boulder                                          |
| Associate Director  | Mortenson Center in Global Engineering & Resilience                        |
| 2021 – 2024         | University of Colorado at Boulder                                          |
| Associate Professor | Dept. of Civil, Environmental, and Architectural Engineering               |
| 2015 – 2021         | University of Colorado at Boulder                                          |
| Assistant Professor | Dept. of Civil, Environmental, and Architectural Engineering               |
| 2010 – 2016         | University of Colorado at Boulder                                          |
| Research Assistant  | Dept. of Civil and Environmental Engineering                               |
| 2006 – 2009         | Stanford University, Stanford, CA                                          |
| Project Manager     | Opus Northwest, L.L.C                                                      |
| 2005 – 2006         | Denver, Colorado                                                           |

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| Ast Project Manager | Opus Northwest, L.L.C                                            |
| 2001 – 2004         | Denver, Colorado                                                 |
| Project Engineer    | Neenan Company                                                   |
| 2000 – 2001         | Fort Collins, Colorado                                           |
| Teaching Assistant  | Department of Civil, Environmental and Architectural Engineering |
| 2000                | University of Colorado at Boulder, Boulder, CO                   |
| Project Engineer    | Turner Construction Company                                      |
| 1999                | Denver, Colorado                                                 |

### **PRIMARY AREAS OF INTEREST**

Disaster recovery, resiliency, and risk reduction; Reliable provision of safe infrastructure services;  
Resilient and sustainable infrastructure; Knowledge mobilization

### **MERIT-BASED AWARDS AND HONORS**

American Society of Civil Engineering (ASCE) Henry L. Michael Award (2025)  
American Society of Civil Engineering (ASCE) Peurifoy Construction Research Award (2025)  
Engineering Project Organization Society's Pathfinder Award (2024)  
Distinguished Achievement Award, Department of Civil, Environmental, and Architectural Engineering, University of Colorado—Boulder (2023)  
Excellence in Leadership Program, University of Colorado System (2022-2023 cohort)  
American Society of Civil Engineering (ASCE) Journal of Management in Engineering Best Peer Reviewed Paper Award (2021)  
Outstanding Teacher Award, Department of Civil, Environmental, and Architectural Engineering, University of Colorado—Boulder (2021)  
College of Engineering and Applied Science, University of Colorado, Top 20 Research Performer (out of 182 full time faculty) (2018)  
American Society of Civil Engineering (ASCE) Daniel W. Halpin Award for Scholarship in Construction (2018)  
Outstanding Service Award, Department of Civil, Environmental, and Architectural Engineering, University of Colorado—Boulder (2018)  
College of Engineering and Applied Science, University of Colorado, Top 20 Research Performer (2017)  
Best Presentation Award, Engineering Project Organizations Conference (EPOC) (2018)\*  
Distinguished Professor Award, Construction Industry Institute (2016)  
Best Paper Award, Engineering Project Organizations Conference (2016)  
Best Paper Award, Engineering Project Organizations Conference (2015)  
Outstanding Undergraduate Research Mentor, University of Colorado-Boulder (2015)

Honorary Commended Paper, International Journal of Disaster Resilience in the Built Environment (2014)

Nicholas R. and Nancy D. Petry Professor in Construction Engineering and Management (2014-current)

American Society of Civil Engineering (ASCE) Excellence in Civil Engineering Education (ExCEEEd) New Faculty Excellence in Teaching Award (2014)

Outstanding Advisor, College of Engineering and Applied Science, University of Colorado—Boulder (2014)

Young Researcher Award, Department of Civil, Environmental, and Architectural Engineering, University of Colorado—Boulder (2014)

National Science Foundation (NSF) Fellowship to attend and present at “NSF proceedings for North America East Asia for Big Data on ISBR” in Beijing, China (2014)

NSF Fellowship to attend “IDEAS Lab: Social inequality in Engineering Education” (2014)

NAE 12-member panel for the project entitled “Understand the Engineering Education—Workforce Continuum” (2013-2018)

Best Paper Award, Engineering Project Organizations Conference (EPOC) Conference (2012)

Best Paper Award for Disaster Tracks at Construction Research Congress (CRC) Conference (International Journal of Disaster Resilience in the Built Environment) (2012)

Construction Engineering and Management (CEM) Faculty Fellow (2012-2014)

Engineering News Record (ENR) Top 20 under 40, Mountain States Region (2012)

NSF Fellowship to participate in the CAREER award session (2011)

Selected to the University of Colorado’s President’s Teaching and Learning Collaborative (2011)

Best Presentation Award, Engineering Project Organizations Conference (EPOC) (2011)

University of Colorado Boulder ‘Women Who Make a Difference Award’ (2010)

NSF Travel Fellowship to Attend Virginia Tech Construction Engineering Conference (2010)

American Society of Civil Engineering ExCEEEd (Excellence in Civil Engineering Education) Teaching Fellowship (2010)

Barry Faculty Fellowship (2010-2012)

Best Paper Award, EPOC Conference (2009)

NSF Graduate Student Conference Travel Award (2009)

Stanford Graduate Fellowship, Gabilan Fellowship (2007-2009)

Stanford University - Clarkson Oglesby Fellowship (2006-2007)

Nominee for CREW (Commercial Real Estate Women) Denver’s annual award, “Woman of Influence” (2006)

MOA Architecture’s Outstanding Construction Project Management Team for University Physicians Incorporated (UPI) (2003-2004)

Clarence Eckel Award - Top December 1999 graduate from the Civil, Environmental, and Architectural Engineering Department at the University of Colorado, Boulder (1999)

## BOOKS AND BOOK CHAPTERS

- [B3] Jordan, E. and **A. Javernick-Will** (2015). "Pathways to Livelihood Recovery: a Study of Tsunami-Affected Communities in Tamil Nadu, India," in Michèle Companion, ed. *Disasters' Impact on Livelihood and Cultural Survival: Losses, Opportunities, and Mitigation*. Boca Raton, FL: CRC Press. Chapter 13.
- [B2] **Javernick-Will, A.** and W. Richard Scott (2011). "Who Needs to Know What?: Institutional Knowledge and Global Projects" in *Global Projects : Institutional and Political Challenges*, Cambridge University Press. Chapter 7. pp. 249-275
- [B1] **Javernick-Will, A.** and T. Hartmann (2011). "Knowledge Management in Global Environments" in: *Organization Management in Construction*, Chinowsky, P. and Songer, T. Eds. Taylor and Francis New York, NY. Chapter 3 pp. 23-40.

## PEER-REVIEWED JOURNAL ARTICLES PUBLISHED

Underline Denotes Javernick-Will's student advisee (Primary Advisor)

\*Denotes student Javernick-Will advised (non-primary advisor)

†Denotes Javernick-Will's PhD Advisor

Authorship position closer to the first author indicates greater contribution.

- [J114] Sardana, P., **Javernick-Will, A.**, and S. Cook (2024) "Facilitators and Barriers of Global Water Reuse: A Systematic Literature Review". *ACS ES&T Water*. 10.1021/acsestwater.4c00778.
- [J113] Valdivieso, D\*, Goldwyn, B., Liel, A., **Javernick-Will, A.**, Lopez-Garcia, D., and P. Guindos (2024). "Potential for mitigating hurricane wind impact on informally-constructed homes in Puerto Rico under current and future climate scenarios". *International Journal of Disaster Risk Reduction*. 10.1016/j.ijdrr.2024.104627.
- [J112] Ventura, R., VanRiper, F., and **A. Javernick-Will** (2024) "Characterizing Customer Attrition in Container-Based Sanitation (CBS) Organizations: A Case Study Analysis" *Frontiers in Environmental Science*. 10.3389/fenvs.2024.1304047.
- [J111] Siddiq, I. and **A. Javernick-Will**. (2024) "Should I stay or should I go?: Reasons beneficiaries decide to stay or leave aid-provided in-situ housing". *International Journal of Disaster Risk Reduction*. 10.1016/j.ijdrr.2024.104454.
- [J110] Ellery, M., **Javernick-Will, A.**, Liel, A., and K. Dickinson (2023). "Post-Fire Jurisdictional Decision-Making for Resiliency and Sustainability Outcomes". *Environmental Research: Infrastructure and Sustainability*. 10.1088/2634-4505/ad02b8.

- [J109] Ventura, R., Javernick-Will, A., and N. Gonzales. (2023). "Characterizing modern bathrooms to support sanitation adoption". *Journal of Water, Sanitation & Hygiene for Development*. [10.2166/washdev.2023.034](#).
- [J108] Goldwyn, B., Velasquez, C., Liel, A., Javernick-Will, A., and M. Koschmann (2023). "Capacity-Building to Support Safer Housing through Appropriate Hurricane Strap Use" *Natural Hazards Review*. [10.1061/NHREFO.NHENG-1708](#).
- [J107] Kirsch, K.\*, Nagel, C., Iribagiza, C., Ecklu, J., Akonkwa Zawadi, G., Mugaruka Ntabaza, P., Barstow, C., Lund, A., Harper, J., Carlton, E., Javernick-Will, A., Linden, K., and E. Thomas, (2023). "Study design and baseline to evaluate water service provision among peri-urban communities in Kasai Oriental, Democratic Republic of the Congo". *PLOS One*. [10.1371/journal.pone.0283019](#).
- [J106] Burleson, G., Lajoie, J., Mabey, C., Sours, P., Ventrella, J., Peiffer, E., Stine, E., Stettler Kleine, M., MacDonald, L., Austin-Breneman, J., Javernick-Will, A., Winter, A., Lucena, J., Knight, D., Daniel, S., Thomas, E., Mattson, C., Aranda, I. (2023). "Advancing Sustainable Development: Emerging Factors and Futures for the Engineering Field". *Sustainability*. [10.3390/su15107869](#).
- [J105] MacDonald, L., Thomas, E., Javernick-Will, A., Austin-Breneman, J., Aranda, I., Salvinelli, C., et al., (2022). Aligning learning objectives and approaches in global engineering graduate programs: Review and recommendations by an interdisciplinary working group. *Development Engineering*, p.100095. [10.1016/j.deveng.2022.100095](#)
- [J104] Chintalapati, P., Nyaga, C., Walters, J., Koehler, J., Javernick-Will, A.; Hope, R.; Linden, K. (2022). "Improving the reliability of water service delivery in rural Kenya through professionalized maintenance: a system dynamics perspective". *Environmental Science and Technology*. [10.1021/acs.est.2c00939](#)
- [J103] Murray, P., Feliciano, D., Goldwyn, B., Liel, A., Arroyo, O., and A. Javernick-Will. (2022). "Seismic safety of informally-constructed reinforced concrete houses in Puerto Rico. *Earthquake Spectra*. [10.1177/87552930221123085](#)
- [J102] Pugel, K., Javernick-Will, A., Nyaga, C., Dimtse, D., Mussa, M., Henry, L., and K. Linden. (2022). "Mapping (mis)alignment within a collaborative network using homophily metrics". *PLOS Water*. [10.1371/journal.pwat.0000044](#)
- [J101] Cord, C., Fink, E., Javernick-Will, A., Mukanga, J., Bergeron, F., Harvey, A., and K. Linden. (2022). "A multi-method analysis of factors for reliable and sustainable rural water infrastructure". *Environmental Science and Technology Water*. [10.1021/acsestwater.2c00181](#)
- [J100] Walters, J., Valcourt, N., Linden, K., Javernick-Will, A., and Lockwood, H. (2022). "Challenges and Solutions to Rural Water Service Sustainability in East African Countries: A 'Systems Scaffolding' Perspective". *Environmental Science and Policy*. [10.1016/j.envsci.2022.07.023](#)
- [J99] Goldwyn, B., Vega, Y., Javernick-Will, A., and A. Liel (2022). "Identifying Misalignments between the Informal Construction Sector's Perceptions and Engineering Assessments of

- Housing Safety in Future Disasters for Capacity Development”. *International Journal of Risk Reduction*. [10.1016/j.ijdr.2022.103105](https://doi.org/10.1016/j.ijdr.2022.103105)
- [J98] [Fink, E.](#), [Chintalapati, P.](#), Lane, A., Wester, A., **Javernick-Will, A.**, and K. Linden (2022). “Determinants of rural hand-pump functionality through maintenance provision in the Central African Republic” *PLOS Water*. [10.1371/journal.pwat.0000024](https://doi.org/10.1371/journal.pwat.0000024)
- [J97] [Tracy, A.](#), **Javernick-Will, A.** and A. Liel. (2022). “Factors influencing public beliefs regarding the cause of induced earthquakes”. *Natural Hazards*. [10.1007/s11069-022-05386-9](https://doi.org/10.1007/s11069-022-05386-9).
- [J96] [Cord, C.](#), **Javernick-Will, A.**, Buhungiro, E., Harvey, A., & Linden, K. (2022). Institutional influences on local government support for professionalized maintenance of water supply infrastructure in rural Uganda: A qualitative analysis. *PLOS Water*, 1(2), [10.1371/journal.pwat.0000003](https://doi.org/10.1371/journal.pwat.0000003).
- [J95] [Lochhead, M.](#), [Goldwyn, B.](#), [Venable, C.](#), Liel, A., and **A. Javernick-Will**. (2022). Assessment of hurricane wind performance and potential design modifications for informally constructed housing in Puerto Rico. *Natural Hazards*. [10.1007/s11069-022-05222-0](https://doi.org/10.1007/s11069-022-05222-0)
- [J94] [Palagi Bodine, S.](#), [Tracy, A.](#), and **A. Javernick-Will** (2022). “Questioning the effectiveness of risk reduction via post-disaster relocation” *International Journal of Disaster Risk Reduction*. [10.1016/j.ijdr.2022.102834](https://doi.org/10.1016/j.ijdr.2022.102834)
- [J93] [Goldwyn, B.](#), **Javernick-Will, A.**, and A. Liel (2022). “Multi-hazard housing safety perceptions of those involved with housing construction in Puerto Rico” *Sustainability*. [10.3390/su14073802](https://doi.org/10.3390/su14073802).
- [J92] [Walters, J. P.](#), [Valcourt, N.](#), **Javernick-Will, A.**, & Linden, K. (2022). “Sector Perspectives on the Attributes of System Approaches to Water, Sanitation, and Hygiene Service Delivery”. *Journal of Environmental Engineering*, 148(6), [10.1061/\(ASCE\)EE.1943-7870.0002010](https://doi.org/10.1061/(ASCE)EE.1943-7870.0002010).
- [J91] [Pugel, K.](#), **Javernick-Will, A.**, Mussa, M., Mekonta, L., Dimtse, D., Watsisi, M., Huston, A., and K. Linden (2022). “Pathways for securing government commitment for activities of collaborative approaches.” *Journal of Water, Sanitation, and Hygiene for Development*. <https://doi.org/10.2166/washdev.2022.183>
- [J90] [Cord, C.](#), **Javernick-Will, A.**, Buhungiro, E., Harvey, A., [Jordan, E.](#), Lockwood, H., and K. Linden. (2022). “Pathways to consumer demand and payment for professional rural water infrastructure maintenance across low-income contexts.” *Science of the Total Environment*. [10.1016/j.scitotenv.2021.152906](https://doi.org/10.1016/j.scitotenv.2021.152906)
- [J89] [Pugel, K.](#), **Javernick-Will, A.**, Peabody, S., Nyaga, C., Mussa, M., Mekonta, L., Dimtse, D., Watsisi, M., Buhungiro, E., Mulatu, T., Annis, J., Jordan, E., Sandifer, E., Linden, K., (2022). “Pathways for collaboratively strengthening water and sanitation systems”. *Science of The Total Environment* 149854. [10.1016/j.scitotenv.2021.149854](https://doi.org/10.1016/j.scitotenv.2021.149854)
- [J88] [Goldwyn, B.](#), **Javernick-Will, A.**, & Liel, A. (2021). “Dilemma of the tropics: changes to housing safety perceptions, preferences, and priorities in Multihazard environments.” *Natural Hazards Review*, 22(3), [10.1061/\(ASCE\)NH.1527-6996.0000457](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000457).

- [J87] Venable, C., Liel, A., Kijewski-Correa, T., and A. Javernick-Will (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](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000491).
- [J86] Tracy, A., Javernick-Will, A., & Torres-Machi, C. (2021). "Human-induced or natural hazard? Factors influencing perceptions of actions to be taken in response to induced seismicity". *International Journal of Disaster Risk Reduction*, 57, <https://doi.org/10.1016/j.ijdr.2021.102186>.
- [J85] Harper, J., Bielefeldt, A., Javernick-Will, A., Dickinson, K., Veasna, T., Kozole, T., and C. Nicoletti (2021). "Household Preferences for Rural Fecal Sludge Management Services in Cambodia: A Discrete Choice Experiment." *Environmental Science & Technology* 55(3). <https://doi.org/10.1021/acs.est.0c04636>.
- [J84] Thomas, E., Salvinelli, C., Harper, J., MacDonald, L., Klees, R., Platais, G., Javernick-Will, A., Linden, K. (2021). "A Body of Knowledge and Pedagogy for Global Engineering". *International Journal for Service Learning in Engineering, Humanitarian Engineering and Social Entrepreneurship* 16(1). <https://doi.org/10.24908/ijse.v16i1.14483>
- [J83] Opdyke, A., Goldwyn, B., and A. Javernick-Will (2021). "Defining a Humanitarian Shelter and Settlements Research Agenda". *International Journal of Disaster Risk Reduction*. <https://doi.org/10.1016/j.ijdr.2020.101950>.
- [J82] Venable, C., Javernick-Will, A., Liel, A., and M. Koschmann (2021). "Revealing (Mis)Alignments Between Comparing Household Perceptions and Engineering Assessments of Post-Disaster Housing Safety in Typhoons". *International Journal of Disaster Risk Reduction*. 53. <https://doi.org/10.1016/j.ijdr.2020.101976>
- [J81] Poleacovschi, C., Javernick-Will, A., Wang, S., T. Tong (2021). "Gendered Knowledge Accessibility: Evaluating the role of gender in the process of knowledge seeking". *Journal of Management in Engineering*. 37(1). [10.1061/\(ASCE\)ME.1943-5479.0000865](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000865).<sup>1</sup>
- [J80] Valcourt, N., Walters, J., Javernick-Will, A., and K. Linden (2020). "Assessing the efficacy of a group model building workshop in an applied setting through purposive text analysis". *System Dynamics Review*. 26(2). [10.1002/sdr.1657](https://doi.org/10.1002/sdr.1657).
- [J79] Tracy, A. and A. Javernick-Will (2020). "Incentivizing Survey Response: How Incentive Timing, Response Mode Choice, and Urbanicity Affect Survey Response". *Engineering Project Organizations Journal*. Vol 9. [10.25219/epoj.2020.00105](https://doi.org/10.25219/epoj.2020.00105).
- [J78] Hollander, D., Ajroud, B., Thomas, E., Peabody, S., Jordan, E., Javernick-Will, A. and K. Linden (2020). "Monitoring Methods for Systems-Strengthening Activities Toward Sustainable Water and Sanitation Services in Low-Income Settings." *Sustainability*. 12(17). [10.3390/su12177044](https://doi.org/10.3390/su12177044).

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<sup>1</sup> Selected for feature in ASCE Smartbrief, 1/12/21 and featured on the CE Source website on 1/25/21.

- [J77] Venable, C., Javernick-Will, A., and A. Liel (2020). "Household Perceptions of Safety of Reconstructed Houses in Future Typhoons and Earthquakes". *Sustainability*. 12(9). 10.3390/su12093837.
- [J76] Palagi, S. and A. Javernick-Will (2020). "Discrepancies between post-disaster relocation policy and implementation" *Journal of Management in Engineering*. 36(4). 10.1061/(ASCE)ME.1943-5479.0000790.
- [J75] Palagi, S. and A. Javernick-Will (2020) "Pathways to livable relocation settlements following disaster". *Sustainability*. 12(8). 10.3390/su12083474.
- [J74] Pugel, K., Javernick-Will, A., Koschmann, M., Peabody, S., and K. Linden (2020). "Adapting Collaborative Approaches for Service Provision to Low-Income Countries: Expert Panel Results". *Sustainability*. 12(7). 10.3390/su12072612.
- [J73] Tracy, A. and A. Javernick-Will (2020). "Credible Sources of Information Regarding Induced Seismicity". *Sustainability*. 12(6). 10.3390/su12062308.
- [J72] Javernick-Will, A., Mahalingam, A., and J. Taylor (2020). "Ray Levitt: professor, practitioner, and pathfinder". Editorial for: *Construction Management and Economics*. 38(4). 10.1080/01446193.2020.1730922.
- [J71] Harper, J., Bielefeldt, A., Javernick-Will, A., Veasna, T., and C. Nicoletti (2020). "Context and Intentions: Practical Associations for Fecal Sludge Management in Rural Low-income Cambodia". *Journal of Water, Sanitation and Hygiene for Development*. 10(2). 10.2166/washdev.2020.103<sup>2</sup>.
- [J70] Valcourt, N., Walters, J., Javernick-Will, A., Linden, K., and B. Hailegiorgis (2020). "Understanding Rural Water Services as a Complex System: An assessment of key factors as potential leverage points for improved service sustainability." *Sustainability*. 12(3). 10.3390/su12031243.
- [J69] Chan, P., Dossick, C., Hacker, M., Hartmann, T., Javernick-Will, A., Mahalingam, A., V. Zerjav (2020). *Journal Reviews and Revisions: Advice from an Early Career Panel Discussion*. Editorial for: *Engineering Project Organizations Journal*. Vol 9. 10.25219/epoj.2020.00101.
- [J68] Valcourt, N., Javernick-Will, A., Walters, J., K. Linden (2020). "Systems Approaches to Water, Sanitation and Hygiene: A Systematic Literature Review". *International Journal of Environmental Research and Public Health*. 17(3). 10.3390/ijerph17030702.
- [J67] Arneson, E., Javernick-Will, A., Hallowell, M., R. Corotis (2020). "Predicting Post-Disaster Residential Housing Reconstruction Based on Market Resources". *Natural Hazards Review*. 21(1). 10.1061/%28ASCE%29NH.1527-6996.0000339.
- [J66] Chinowsky, P., and A. Javernick-Will (2020). "High Value Collaborative Networks" *Construction Management and Economics*. 38(4). 10.1080/01446193.2019.1607513.

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<sup>2</sup> Selected by Chief Editor of the journal to be made Open Access free-of-charge based on its broad-scale importance and its interest to researchers in the developing world, funded by the Knowledge Unlatched initiative.



- [J65] Davis, A., Javernick-Will, A., and S. Cook (2019). "Analyzing Sanitation Sustainability Assessment Frameworks for Resource-Limited Communities". *Environmental Science and Technology*. 53(22). [10.1021/acs.est.9b03134](https://doi.org/10.1021/acs.est.9b03134)
- [J64] Poleacovschi, C. and A. Javernick-Will (2019) "The importance of expertise visibility for individual performance." *Engineering Management Journal*. 32(1). [10.1080/10429247.2019.1661718](https://doi.org/10.1080/10429247.2019.1661718).
- [J63] Opdyke, A., Javernick-Will, A., and M. Koschmann (2019). "Assessing the Impact of Household Participation on Satisfaction and Safe Design in Humanitarian Shelter Projects." *Disasters*. 43(4). [10.1111/disa.12405](https://doi.org/10.1111/disa.12405).
- [J62] Olaerts, L., Walters, J., Linden, K., Javernick-Will, A., and A. Harvey (2019). "Factors Influencing Revenue Collection for Preventive Maintenance of Community Water Systems: A Fuzzy Set Qualitative Comparative Analysis". *Sustainability* 11, 3726; [10.3390/su11133726](https://doi.org/10.3390/su11133726).
- [J61] Davis, A., Javernick-Will, A., and S. Cook (2019). "The use of qualitative comparative analysis to identify pathways to successful and failed sanitation systems". *Science of the Total Environment* 663. [10.1016/j.scitotenv.2019.01.291](https://doi.org/10.1016/j.scitotenv.2019.01.291).
- [J60] Davis, A., Javernick-Will, A., and S. Cook (2019). "Priority Addressment Protocol: Understanding the Ability and Potential of Sanitation Systems to Address Priorities". *Environmental Science and Technology* 53(1). [10.1021/acs.est.8b04761](https://doi.org/10.1021/acs.est.8b04761).
- [J59] Palagi, S., and A. Javernick-Will (2019). "Institutional Constraints Influencing Relocation Decision Making and Implementation." *International Journal of Disaster Risk Reduction* 33. [10.1016/j.ijdrr.2018.10.016](https://doi.org/10.1016/j.ijdrr.2018.10.016).
- [J58] Poleacovschi, C., Javernick-Will, A., Tong, T. and J. Wanberg (2019). "Engineers Seeking Knowledge: The Effect of Control Systems on the Accessibility of Tacit and Codified Knowledge." *Journal of Construction Engineering and Management* 145(2). [10.1061/\(ASCE\)CO.1943-7862.0001594](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001594).
- [J57] Opdyke, A., Javernick-Will, A., and M. Koschmann (2018). "A Comparative Analysis of Coordination, Participation, and Training in Post-Disaster Shelter Projects." *Sustainability* 10(11). [10.3390/su10114241](https://doi.org/10.3390/su10114241).
- [J56] Davis, A., Javernick-Will, A., and S. Cook (2018). "A comparison of interviews, focus groups, and photovoice to identify sanitation priorities and increase success of community-based sanitation systems". *Environmental Science: Water Research & Technology* 4(10). [10.1039/C8EW00391B](https://doi.org/10.1039/C8EW00391B).
- [J55] Javernick-Will, A., (2018). "Rationale: the necessary ingredient for contributions to theory and practice". *Construction Management and Economics* 36(8). [10.1080/01446193.2018.1487910](https://doi.org/10.1080/01446193.2018.1487910).
- [J54] Antillon, E., Garvin, M., Molenaar, K., and A. Javernick-Will (2018). "Influence of Interorganizational Coordination on Lifecycle Design Decision making: A Comparative

- Case Study of Public-Private Partnership Highway Projects.” *Journal of Management in Engineering* 34(5). [10.1061/\(ASCE\)ME.1943-5479.0000623](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000623)<sup>3</sup>
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## PEER-REVIEWED JOURNAL ARTICLES ACCEPTED

- [JA1] Gershon, N., Javernick-Will, A., Liel, A. (202X) "Homeowner Priorities for Sustainability and Resilience: Rebuilding Homes Post-Wildfire". Submitted to: Natural Hazards Review (Special Collection: Managing Wildfires as an Escalating Global Threat).
- [JA2] Stine, E., Javernick-Will, A., and T. Tanksley (202X) "Exploring Concerns in Equity-Focused Career Goals Among Humanitarian Engineering Students: Investigating the Influence of Graduate Education" *Journal of Civil Engineering Education*.
- [JA3] Pandey, M., Stine, E., and A. Javernick-Will (202X). "Aid localization in the humanitarian engineering sector: investigating influencing factors and changes". *Development in Practice*.
- [JA4] Wells, E., Fuller, M., Javernick-Will, A., and K. Linden (202x). "Preventive Actions and Risk Culture are Key Drinking Water Microbial Risk Management Indicators: Evidence from Canadian Stakeholders. *ACS ES&T Water*
- [JA5] Siddiq, I., Kelly, K., and A. Javernick-Will (202x). "Post-disaster in-situ aid: factors associated with housing beneficiaries' perceived long-term recovery". *International Journal of Disaster Risk Reduction*.

## PEER-REVIEWED JOURNAL ARTICLES SUBMITTED

- [JS1] Stine, E., Tanksley, T., and **A. Javernick-Will** (202X) “Nurturing Transformational Resistance: How Humanitarian Engineering Education Shapes Students' Capacity to Challenge Systemic Inequality”. Submitted to: *Journal of Engineering Education*. (Submitted August 2024, Resubmission December 2024).
- [JS2] Stine, E., **Javernick-Will, A.**, and T. Tanksley (202x). “The Unseen Labor of Being Included: Community Cultural Wealth and Supporting Students with Familial Ties to Low and Middle-Income Countries in Humanitarian Engineering” Submitted to: *Journal of Women and Minorities in Science and Engineering* (Submitted October 2024).
- [JS3] Stine, E., **Javernick-Will, A.**, and T. Tanksley (202x). “Developing Social Justice Self-Efficacy in Humanitarian Engineering Graduate Education”. Submitted to: *ASCE Journal of Civil Engineering Education* (Submitted April 2025).

## WORKING PAPERS

- [JW1] Gershon, N., **Javernick-Will, A.**, and A. Liel (202x). “Homeowner beliefs and value judgments influencing sustainability and fire resilience decisions for homes rebuilt after a wildfire”. Planned submission in August 2025.
- [JW2] Siddiq, I., Stine, E., and **A. Javernick-Will** (202x). “Long-term post-disaster orphan recovery”. Planned submission in July 2025 to *International Journal of Disaster Risk Reduction and Recovery*.

## RESEARCH REPORTS AND OTHER WORK

- [RR18] Marshall Fire Recovery and Resilience Working Group and Survey Team (2023). ‘Marshall Fire Unified Research Survey: Wave 2 Technical Report’ [www.marshallresilience.com](http://www.marshallresilience.com)
- [RR17] Marshall Fire Recovery and Resilience Working Group and Survey Team (2022). ‘Marshall Fire Unified Research Survey: Wave 1 Technical Report’ [www.marshallresilience.com](http://www.marshallresilience.com)
- [RR16] Fischer, E., Wham, B., Dashti, S., Javernick-Will, A., Liel, A., Whelton, A., Berty, N., Klingaman, J., Metz, A., Ramos, J., Rose, H-R. (2022). *2021 Marshall Fire Geotechnical Extreme Events Reconnaissance (GEER) Report* DOI: [10.18118/G6KT04](https://doi.org/10.18118/G6KT04); [https://geerassociation.org/index.php/component/geer\\_reports/?view=geerreports&layout=build&id=103](https://geerassociation.org/index.php/component/geer_reports/?view=geerreports&layout=build&id=103).
- [RR15] Annotated Bibliography, Sustainable WASH Systems (2022).
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- [RR11] Palagi, S., and Javernick-Will, A. (2018). Post-Disaster Permanent Relocation: Case Studies in Tacloban City, Philippines. Mortenson Center in Engineering for Developing Communities, University of Colorado Boulder.
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- [RR8] Valcourt, N., Walters, J., Javernick-Will, A., & Hollander, D., Linden, K., (2018). Summary Report of Iterative Factor Mapping and Learning (IFML): Kampong Speu, Cambodia. Washington, DC: Sustainable WASH Systems Learning Partnership: United States Agency for International Development.
- [RR7] Opdyke, A., Javernick-Will, A., and Koschmann, M. (2017). Typhoon Haiyan: Shelter Case Studies. Mortenson Center in Engineering for Developing Communities, University of Colorado Boulder.
- [RR6] Mohammadi, N., Taylor, J., **Javernick-Will, A.** (2016). "Determining Virtual Team Performance in the Construction Industry." CII Research Report 326-11. Construction Industry Institute, Austin, TX, August 2016, 133 pp.
- [RR5] Mohammadi, N., Taylor, J., **Javernick-Will, A.,** Duncan, R. and Felton, S. (2016). "High Performance Virtual Team Equalizer Tool and User Guide". CII Implementation Resource IR326-2. Construction Industry Institute, Austin, TX, May 2016, Excel-based tool; User Guide: 40 pp.
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- [RR3] Rose, D., Molenaar, K.R., **Javernick-Will, A.,** Hallowell, M., Senesi, C., and McGuire, T. (2015). "Successful Implementation of Enterprise Risk Management in State Transportation Agencies." National Cooperative Highway Research Program, Research Report 08-36 (121), Washington, DC, April 2015. 38 pp.



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- [RR1] Senesi, C., Javernick-Will, A., Molenaar, K.R., Furlani, K. and Relyea, C. (2012). "Probabilistic Risk Management in Design and Construction Projects," *Research Summary, RS 280-1, Construction Industry Institute, Austin, TX, July 2012, 48 pp.*

#### **PEER-REVIEWED CONFERENCE PROCEEDINGS OR ABSTRACTS SUBMITTED OR ACCEPTED**

- [CS1] Stine, E., Javernick-Will, A., and T. Tanksley. 2025. "Navigating Deficit Narratives: Marginalized Student Experiences in Humanitarian Engineering Graduate Programs." 2025 American Society of Engineering Education Annual Conference. Montreal, Canada. June 2025.
- [CS2] Stine, E., Javernick-Will, A., and T. Tanksley. 2025. "(Mis)alignments between student's expectations and practitioner's experiences in humanitarian engineering careers." 2025 Engineering Project Organization Conference. Chennai, India. July 2025.
- [CS3] Sardana, P., Javernick-Will, A., and S. Cook. 2025. "Identifying Successful Strategies for Implementing Potable Water Reuse Projects: A Cross Case Comparative Approach. Engineering Project Organizations Conference Chennai, India. July 2025.
- [CS4] Sardana, P., Javernick-Will, A., and S. Cook. 2025. "Facilitators and Barriers of Global Water Reuse: Findings from a Systematic Literature Review and Analysis of Published Case Studies of Water Reuse Projects". AEESP Research and Education Conference. May 2025.

#### **PEER-REVIEWED CONFERENCE PROCEEDINGS PUBLISHED**

- [C96] Stine, E., Javernick-Will, A. (2024). "Navigating Transformational Resistance: Exploring Humanitarian Engineering Students' Capacities for Addressing Systemic Causes of Infrastructure Service Disparities". 2024 ASEE Annual Conference & Exposition, June-July 2024.
- [C95] Stine, E., Javernick-Will, A. (2024). "Equity-focused Goals of Humanitarian Engineering Students: Addressing Systematic Oppression, Amplifying Community Cultural Wealth, Developing Social Justice Self-Efficacy, and Elucidating Career Concerns". 2024 ASEE Annual Conference & Exposition, June-July 2024.
- [C94] Stine, E., Javernick-Will, A., and T. Tanksley (2024). "Advancing Diversity in Humanitarian Engineering Education: Unveiling the Value of Investing in Marginalized Graduate Students' Cultural and Social Capital." ASEE Rocky Mountain Chapter.

- [C93] Gershon, N., **Javernick-Will, A.**, and A. Liel (2024). "Homeowner Decisions for Fire Resilience and Sustainability in Post-Wildfire Rebuilt Housing". Engineering Project Organizations Conference. Bar Harbor, Maine, June 2024.
- [C92] Lopez Alvarez De Neyra, P., Celozza, A. and **A. Javernick-Will** (2024). "Enablers, opportunities, and challenges of steel reuse in the AEC industry". Engineering Project Organizations Conference. Bar Harbor, Maine, June 2024.
- [C92] Valdivieso, D. \*, Goldwyn, B., **Javernick-Will, A.**, Liel, A. "Potential for Mitigating Hurricane Wind Impact on Informally-Constructed Homes in Puerto Rico under Current and Future Climate Scenarios." *Natural Hazards Summit*. College Park, MD, May 2024.
- [C91] Stine, E., Pandey, M., **Javernick-Will, A.**, and T. Tanksley. (2024). "The Evolving Career Aspirations of Socially Minded Engineering and Construction Students". Construction Research Congress. Iowa, March 2024.
- [C90] Valdivieso, D., Liel, A., **A. Javernick-Will** (2023). "Hurricane wind performance and mitigation strategies for informally constructed houses in Puerto Rico". ASCE Inspire. Arlington, Virginia, November 2023.
- [C89] Stine, E., **Javernick-Will, A.** (2023). "Social Justice Self-Efficacy Growth in Humanitarian Engineering Students: Longitudinally Tracking the Learning Environments Conducive to Students' Success at Activism in Graduate School" 26th Annual Colloquium on International Engineering Education. Alexandria, Virginia. November 2023.
- [C88] Stine, E., **Javernick-Will, A.**, Tanksley, T. (2023). "Shifting Humanitarian Engineering Career Outcome Expectations: How anti-racism reflections on properties of whiteness influence interest in the field". Engineering Project Organizations Conference. Berlin, Germany. July 2023.
- [C87] Ventura, R., **A. Javernick-Will** (2023). "Characterizing practitioner perspectives on customer attrition in Container-Based Sanitation Organizations". Engineering Project Organizations Conference. Berlin, Germany. July 2023.
- [C86] Goldwyn, B., **Javernick-Will, A.**, and A. Liel. (2023) "Building Capacity for Disaster-Resilient Housing: Investigating Less Frequent Hazards in Multi-Hazard Environments". Engineering Project Organizations Conference. Berlin, Germany. July 2023.
- [C85] M. Lochhead, P.B. Murray, B. Goldwyn, **A.B. Liel**, and **A. Javernick-Will** (2022). Multi-hazard performance of informally constructed Puerto Rican Houses. Proceedings of the 12th National Conference in Earthquake Engineering, Earthquake Engineering Research Institute, Salt Lake City, UT. 2022.
- [C84] Stine, E., **Javernick-Will, A.**, and T. Tanksley (2022). "Dominant Narratives in Humanitarian Engineering: Repercussions on and Resistance by the Non-Dominant " American Society of Engineering Education Conference. Minneapolis, Minnesota.
- [C83] Goldwyn, B., **Javernick-Will, A.**, Liel, A., and Koschmann, M. (2022). Designing a Communication Practice to Build Community Capacity for Safer, More Resilient Housing. ASCE's 2022 Construction Research Conference, Washington D.C.

- [C82] Goldwyn, B., Javernick-Will, A., and A. Liel (2020). "The Dilemma of the Tropics: Changes to housing safety perceptions, preferences, and priorities in multi-hazard environments" 2020 Engineering Project Organizations Conference, Virtual.
- [C81] Pugel, K., Javernick-Will, A., Peabody, S. and K. Linden (2020). "Comparison of collaborative approaches for water and sanitation service provision in Ethiopia, Kenya, and Uganda," 2020 Engineering Project Organizations Conference, Virtual.
- [C80] Goldwyn, B., Venable, C., Javernick-Will, A., and A. Liel (2020). "The Influence of Reconstruction Modality, Social Capital, and Community Satisfaction on Willingness to Participate in Resilience-Building Activities". 2020 Construction Research Congress. Phoenix, AZ.
- [C79] Tracy, A., and A. Javernick-Will (2020). "How Induced Seismicity Impacts Community Perceptions of Oil and Gas Development". 2020 Construction Research Congress. Phoenix, AZ.
- [C78] Pugel, K., Javernick-Will, A., and K. Linden (2019). "Factors that Contribute to Successful Collective Action for Sustainable Water and Sanitation Development". 2019 Engineering Project Organizations Conference, Vail, CO.
- [C77] Goldwyn, B., Opdyke, A., Javernick-Will, A., and A. Liel (2019). "Post-Disaster Shelter and Settlements Research Priorities". 2019 Engineering Project Organizations Conference, Vail, CO.
- [C76] Valcourt, N., Walters, J., Javernick-Will, A., and K. Linden (2019) "Understanding Complexity in WASH systems". All Systems Go Conference, The Hague, The Netherlands.
- [C75] Cord, C., Walters, J., Lockwood, H., Chintalapaaati, P., Javernick-Will, A., and K. Linden (2019). "Moving toward prevention: rural water maintenance and sustained service delivery". All Systems Go Conference, The Hague, The Netherlands.
- [C74] Chintalapaaati, P., Walters, J., Javernick-Will, A., and K. Linden (2019) "System dynamics modelling as a tool for assessing rural water sustainability". All Systems Go Conference, The Hague, The Netherlands.
- [C73] Pugel, K., Javernick-Will, A., K. Linden (2019) "What is a collective action approach and what makes it effective? - a desk review". All Systems Go Conference, The Hague, The Netherlands.
- [C73] Opdyke, A., Palagi, S., Venable, C., and A. Javernick-Will (2018). "Incremental Shelter and Homeowner Post-Disaster Expansions and Modifications." International Conference on Building Resilience. Lisbon, Portugal.
- [C72] Harper, J., Bielefeldt, A., Javernick-Will, A., Veasna T. and C. Nicoletti (2018). "Intentions and Behaviors Toward Fecal Sludge Management in Rural Developing Communities." 2018 Engineering Project Organizations Conference, Croatia.
- [C71] Venable, C., Javernick-Will, A., and A. Liel (2018). "Built Back Better? A Comparison of Assessed and Perceived Performance of Post-Disaster Shelter". 2018 Engineering Project Organizations Conference, Croatia.

- [C70] Davis, A., **Javernick-Will, A.** and S. Cook. (2018). "Avoiding Failure: The Use of Qualitative Comparative Analysis to Identify Pathways to Successful Sanitation Interventions". 2018 Engineering Project Organizations Conference, Croatia
- [C69] Pugel, K., **Javernick-Will, A.**, Walters, J., Valcourt, N., and K. Linden (2018). "(F)actors of Water Projects: Sustaining Services through Collaborative Systems Approaches". 2018 Engineering Project Organizations Conference, Croatia.
- [C68] Pugel, K., **Javernick-Will, A.**, and K. Linden (2018). "Complexity aware decision making for water projects." International Forum on Engineering Decision Making, Lake Louise, Canada.
- [C67] Venable, C., Opdyke, A., **Javernick-Will, A.**, and A. Liel (2018). "Community Participation in Post-Disaster Shelter Programs: Examining the Evolution of Participation in Planning, Design, and Construction". 2018 Construction Research Congress, New Orleans, LA.
- [C66] Tracy, A., Klucik, R., **Javernick-Will, A.**, and C. Poleacovschi (2018). "New Disasters in the Twittersphere: How Communities Utilize Social Media to Seek and Share Information in the Wake of Induced Seismicity." 2018 Construction Research Congress, New Orleans, LA.
- [C65] Arneson, E., Hallowell, M., and **A. Javernick-Will** (2018). "How Construction Resource Availability Affects Housing Reconstruction in Tornado Alley". 2018 Construction Research Congress, New Orleans, LA.
- [C64] Palagi, S., Mostafavi, A., and **A. Javernick-Will** (2017). "Establishing a conceptual framework of post-disaster risk reduction and relocation decision making.", 2017 I-Rec Conference, Toronto, Canada.
- [C63] Arneson, E., M. Hallowell, and **A. Javernick-Will** (2017). "How pre-disaster construction capacity affects post-disaster rebuilding of residential housing", 2017 CSCE (Construction Specialty Conference), Vancouver, BC, Canada.
- [C62] Arneson, E., **Javernick-Will, A.** and M. Hallowell (2017). "Construction Capacity: How construction resource availability affects post-tornado rebuilding of residential housing", 2017 Engineering Project Organizations Conference, Stanford, CA.
- [C61] Davis, A., **Javernick-Will, A.** and S. Cook. (2017). "Multi-Method Approach to Identifying Community Priorities for Sanitation Systems", 2017 Engineering Project Organizations Conference, Stanford, CA.
- [C60] Tracy, A., **Javernick-Will, A.** and D. Baummer (2017). "'I'm not a Scientist': community knowledge-sharing during uncertainty: induced seismicity and hydraulic fracturing." 2017 Engineering Project Organizations Conference, Stanford, CA.
- [C59] Palagi, S., and **A. Javernick-Will** (2016). "(Ostensibly) Invulnerable Distances: Investigating the Role of Post-Disaster Relocation for Holistic Risk Reduction" 4<sup>th</sup> International Conference on Urban Disaster Reduction, Wellington, New Zealand, October, 2016.

- [C58] Palagi, S., Jopson, T., and **A. Javernick-Will** (2016). "Efforts to design wastewater treatment systems for Tacloban North relocation sites". USMCA2016: New Technologies for Urban Safety of Mega Cities in Asia, Tacloban, Philippines, November 2016.<sup>5</sup>
- [C57] Linden, K., **Javernick-Will, A.**, Amadei, B., Klees, K., and R. Sandekian (2016). "Engineering in Developing Communities: Curriculum Development around Graduate Certificate and Professional MS Programs." 2016 Engineering Education for Sustainable Development Conference, Bruges, Belgium, September 2016.
- [C56] Poleacovschi, C. and **A. Javernick-Will** (2016). "A relational view explaining the process of knowledge seeking". 2016 Engineering Project Organization Conference, Seattle, WA, USA, June 2016.
- [C55] Opdyke, A., **Javernick-Will, A.**, Koschmann, M., and H. Moench (2016). "A Constitutive Communication Lens of Stakeholder Participation in Post-Disaster Construction". 2016 Engineering Project Organization Conference, Seattle, WA, USA, June 2016.<sup>6</sup>
- [C54] Arneson, E., **Javernick-Will, A.**, Hallowell, M. and W. Thompson (2016). "Construction Capacity: The Role of Regional Construction Supply Chain Resources in Post-disaster Rebuilding". 2016 Engineering Project Organization Conference, Seattle, WA, USA, June 2016.
- [C53] Ferrara, S., Mohammadi, N., Taylor, J., and **A. Javernick-Will** (2016). "Exploring Generational Preferences toward Information and Communication Technologies in Virtual Teams". 2016 Engineering Project Organization Conference, Seattle, WA, USA, June 2016.
- [C52] Zerio, A., Opdyke, A., and **A. Javernick-Will** (2016). "Post-Disaster Reconstruction Training Effectiveness". 2016 Engineering Project Organization Conference, Seattle, WA, USA, June 2016.
- [C50] Poleacovschi, C., **A. Javernick-Will**, and T. Tong (2016). "Searching for knowledge and experts in engineering and construction organizations". 2016 Construction Research Congress, San Juan, Puerto Rico, USA, May 2016.
- [C49] Opdyke, A., **Javernick-Will, A.**, Koschmann M., and H. Moench (2016). "Characterizing Post-Disaster Shelter Design and Material Selection: Lessons from Typhoon Yolanda in the Philippines". 2016 Construction Research Congress, San Juan, Puerto Rico, USA, May 2016.
- [C48] Mohammadi, N., Taylor, J. and **A. Javernick-Will** (2016). "Team Building Moderators of Engineering and Construction Industry Virtual Team Performance". 2016 Construction Research Congress, San Juan, Puerto Rico, USA, May 2016.
- [C47] Arneson, E., Deniz, D., **Javernick-Will, A.**, Liel, A. and S. Dashti (2016). "Information Deficits and Post-Disaster Recovery". 2016 Construction Research Congress, San Juan, Puerto Rico, USA, May 2016.

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<sup>5</sup> Outstanding Graduate Researcher Award

<sup>6</sup> Best Paper Award

- [C46] Palagi, S. and **A. Javernick-Will**. (2015). "Achieving Risk Reduction and Infrastructure Recovery after the 2004 Indian Ocean Tsunami: A Comparison between India and Sri Lanka". 2015 Engineering Project Organizations Conference (EPOC), Edinburgh, Scotland, June 2015.
- [C45] Opdyke, A., **Javernick-Will, A.** M. Koschmann, and H.Moench (2015). "Emergent Coordination Practice in Post-Disaster Planning of Infrastructure Systems". 2015 Engineering Project Organizations Conference (EPOC), Edinburgh, Scotland, June 2015.
- [C44] Poleacovschi, C. and **A. Javernick-Will** (2015). "Assessing expertise for knowledge searching using Bordeaux's Habitus". 2015 Engineering Project Organizations Conference (EPOC), Edinburgh, Scotland, June 2015.<sup>7</sup>
- [C43] Antillon, E., **Javernick-Will, A.** and K. Molenaar (2015). "The Influence of Project Delivery Methods on the Life Cycle Design Decision-Making Process of Transportation Projects: A Case Study. International Construction Specialty Conference (ICSC'15), Vancouver, Canada, May 2015.
- [C42] Poleacovschi, C. and **A. Javernick-Will** (2015). "Do Strong or Weak ties matter in knowledge sharing networks?". International Construction Specialty Conference (ICSC'15), Vancouver, Canada, May 2015.
- [C41] Soden, R., Palen, L., Chase, C., Deniz, D., Arneson, E., Sprain, L., Goldstein, B., Liel, A., **Javernick-Will, A.**, and S. Dashti, (2015). "The Polyvocality of Resilience: Discovering a Research Agenda through Interdisciplinary Investigation & Community Engagement". 12th International Conference on Information Systems for Crisis Response and Management, Kristiansand, Norway, May 2015.
- [C40] Opdyke, A. and **A. Javernick-Will** (2014). "Building Coordination Capacity: Post-Disaster Organizational Twitter Networks." Proceedings of the 2014 Institute of Electrical and Electronics Engineers Global Humanitarian Technology Conference, San Jose, CA, October 2014.
- [C39] Knight, D., Litchfield, K. and **A. Javernick-Will** (2014). "Engineers Without Borders: An Empirical Investigation of Member's Defining Characteristics". 2014 Frontiers in Education Conference, Madrid, Spain, October 2014.
- [C38] Wanberg, J. and **A. Javernick-Will** (2014). "Organizational Tetris: Reducing Collaborative gaps by classifying knowledge sharing relationships". 2014 Engineering Organizations Conference, Granby, CO, July 2014.
- [C37] Walters, J., **Javernick-Will, A.** and Chinowsky, P. (2014). "Rural Water Services Sustainability: Causal Loop Systems Diagram". 2014 Engineering Organizations Conference, Granby, CO, July 2014.
- [C36] Opdyke, A. and **A. Javernick-Will** (2014). "Resilient and Sustainable Infrastructure Systems: The Role of Coordination, Stakeholder Participation, and Training in Post-

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<sup>7</sup> Best Paper Award

- Disaster Construction". 2014 Engineering Organizations Conference, Granby, CO, July 2014.
- [C35] Poleacovschi, C. and **A. Javernick-Will** (2014). "The price of selling knowledge: the commoditization of knowledge in a construction and engineering organization". 2014 Engineering Organizations Conference, Granby, CO, July 2014.
- [C34] Poleacovschi, C. and **A. Javernick-Will** (2014). How are gender issues addressed in construction engineering and its consequences? 2014 American Society of Engineering Education International Forum, Indianapolis, IN, June 2014.
- [C33] Litchfield, K., **Javernick-Will, A.** and Knight, D (2014). "Education Without Borders: Exploring the Achievement of ABET Learning Outcomes through Engineers Without Borders-USA". 2014 American Society of Engineering Education International Forum, Indianapolis, IN, June 2014.
- [C32] Litchfield, K. and **A. Javernick-Will** (2014). Distinguishing Engineers of the Future: Comparisons with EWB-USA Members. 2014 American Society of Engineering Education Conference, Indianapolis, IN, June 2014
- [C31] Litchfield, K., **Javernick-Will, A.** and Cathy Leslie (2014). "Collaborative Research: Gender Diversity, Identity and EWB-USA". 2014 American Society of Engineering Education Conference, Indianapolis, IN, June 2014
- [C30] Jordan, E. and **A. Javernick-Will** (2014). "Success and Failures of the Post-Tsunami Housing Reconstruction Program in Tamil Nadu, India". 2014 Construction Research Congress, Atlanta, GA, May 2014.
- [C29] Wanberg, J. and **A. Javernick-Will** (2014). "Worth One's Salt?: The Usefulness of knowledge sharing connections". 2014 Construction Research Congress, Atlanta, GA, May 2014.
- [C28] Litchfield, K. and **A. Javernick-Will** (2013). "A New Vision: Changed Engineering Outcome Expectations through EWB-USA". 2013 Frontiers in Education Conference, Oklahmoa City, OK, Oct 2013.
- [C27] Jordan, E. and **A. Javernick-Will** (2013). "Pathways to Community Recovery Following the 2004 Tsunami in Tamil Nadu, India". 2013 Engineering Project Organizations Conference, Granby, CO, July 2013.
- [C26] Berteaux, F., **Javernick-Will, A.** and Cheryl Chi (2013). "Adaptation and Integration for Multinational Project-Based Organizations". 2013 Engineering Project Organizations Conference, Granby, CO, July 2013.
- [C25] Kaminsky, J. and **A. Javernick-Will** (2013). "Sanitation System Legitimacy in Bangladesh". 2013 Engineering Project Organizations Conference, Granby, CO, July 2013.
- [C24] Wanberg, J. and **Javernick-Will, A.** Taylor, J.E. and Paul Chinowsky (2013). "A Useful Knot or a Deadly Noose?: The Effects of Organizational Divisions on Informal Knowledge Sharing Networks". 2013 Engineering Project Organizations Conference, Granby, CO, July 2013.

- [C23] Litchfield, K. and **A. Javernick-Will** (2013). "Exploring Motivations for Engineers Without Borders-USA". 2013 Engineering Project Organizations Conference, Granby, CO, July 2013.
- [C22] Litchfield, K. and **A. Javernick-Will** (2012). "Perceptions of Engineering Identity: Diversity and EWB-USA". 2012 Frontiers in Education Conference, Seattle, WA, October 2012.
- [C21] Wanberg, J., **Javernick-Will, A.**, Chinowsky, P. and John Taylor (2012). "Near and Far"; The Mechanics and Dynamics of Boundary Spanning Knowledge Sharing Connections in Engineering and Construction Organizations". 2012 Engineering Project Organizations Conference, Netherlands, July 2012.
- [C20] Jordan, E. **Javernick-Will, A.**, and Bernard Amadei (2012). "A Qualitative Comparative Analysis of Neighborhood Recovery following Hurricane Katrina". 2012 Engineering Project Organizations Conference, Netherlands, July 2012.
- [C19] Alsamadani, R.\*, Hallowell, M., **Javernick-Will, A.** and Jay Cabello (2012). "Relationships among Language Proficiency, Communication Patterns, and Safety Performance in Small Work Crews in the United States". 2012 Engineering Project Organizations Conference, Netherlands, July 2012.<sup>8</sup>
- [C18] Litchfield, K., **Javernick-Will, A.**, and Cathy Leslie (2012). Collaborative Research: Gender Diversity, Identity, and EWB-USA. 2012 American Society of Engineering Education Conference, San Antonio, TX, June 2012.
- [C17] Wanberg, J. and **A. Javernick-Will** (2012). Long and High Jumps: Knowledge Sharing Connections that span Geographic and Disciplinary Boundaries in Interdisciplinary Intra-Firm Networks. 2012 Construction Research Congress, West Lafayette, IN, May 2012.
- [C16] Jordan, E. and **A. Javernick-Will** (2012). Measuring Community Resilience and Recovery: A Content Analysis of Indicators 2012 Construction Research Congress, West Lafayette, IN, May 2012.<sup>9</sup>
- [C15] Senesi, C., Javernick-Will A., and Keith Molenaar (2012). Barriers to Applying Probabilistic Risk Analysis in Design and Construction Projects. 2012 Construction Research Congress, West Lafayette, IN, May 2012.
- [C14] Kaminsky, J. and **A. Javernick-Will** (2012). Factors Influencing Design-Life Infrastructure Sustainability. 2012 Construction Research Congress, West Lafayette, IN, May 2012.
- [C13] Kaminsky, J., Casias, C., **Javernick-Will, A.**, and Cathy Leslie (2012). Expected Outcomes of a Construction Career: Gender Identity and Engineer's without Borders-USA. 2012 Construction Research Congress, West Lafayette, IN, May 2012.
- [C12] Chatterley C.\*, **Javernick-Will, A.** and Karl Linden (2011). WASH in Belizean Schools: Returning to Learn from Successes and Challenges. 2011 UNC WASH Conference.

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<sup>8</sup> Best Paper Award

<sup>9</sup> Best Paper Award



- [C11] **Javernick-Will, A.** (2011). Intra-firm, Interdisciplinary Networks in Multi-National Engineering Organizations. 2011 MISBE Conference. Amsterdam, Netherlands, June, 2011.
- [C10] **Javernick-Will, A.** (2011). Establishing Knowledge-Sharing Connections across Boundaries in Multi-disciplinary, Multi-national CoP's. 2011 EPOC Conference. Estes Park, Colorado, August, 2011.<sup>10</sup>
- [C9] Jordan, E., **Javernick-Will A.**, and Bernard Amadei (2011). Pathways to Community Recovery and Resiliency. 2011 EPOC Conference. Estes Park, Colorado, August 2011.<sup>11</sup>
- [C8] Kaminsky, J., and **A. Javernick-Will** (2011). Sanitation Networks in Developing Communities. 2011 EPOC Conference. Estes Park, Colorado, August 2011. [
- [C7] **Javernick-Will, A.** (2010). "The Embedment of a Knowledge Management Program in an Engineering Organization". 2010 CRC (Construction Research Council) Conference, Banff, Canada May 2010.
- [C6] **Javernick-Will, A.**, Chinowsky, P. and Christopher Senesi (2010). Disasters: Impact of Country Level Variables on Recovery Progression Engineering Project Organizations Conference. Tahoe, CA, November 2010.
- [C5] **Javernick-Will, A.** (2010). The paradox of embeddedness: Local knowledge and knowledge management strategies for multi-national project-based firms. 2010 American Society of Engineering Management Conference. Northwest Arkansas, Arkansas, October 2010.
- [C4] **Javernick-Will, A.** and Raymond E. Levitt<sup>†</sup> (2009). "Acquiring Local Knowledge for International Projects." ASCE Construction Research Congress, Seattle, WA, April 2009.
- [C3] **Javernick-Will, A.** and Raymond E. Levitt<sup>†</sup> (2009). "Knowledge as a contingency Variable for Organizing Knowledge management solutions". 2009 ASCE LEAD Conference, Lake Tahoe, California, November 2009.
- [C2] Zerjav, V.\* and **A. Javernick-Will** (2009). "Motivators and Critical Factors for Worksharing in Design and Engineering Networks". 2009 ASCE LEAD Conference, Lake Tahoe, California, November 2009.
- [C1] **Javernick-Will, A.**, Levitt, R.E.<sup>†</sup>, and W. Richard Scott (2008). "Mobilizing Knowledge for International Projects". 2008 ASCE LEAD Conference, Lake Tahoe, California, October 2008.<sup>12</sup>

## **OTHER CONFERENCE PROCEEDINGS, POSTERS, and PRESENTATIONS**

- [CP13] Pugel, K., **Javernick-Will, A.**, Peabody, S., Linden, K., and D. Hollander (2020). Cross-case comparison of fourteen collective action approaches in WASH. University of North Carolina Water and Health Conference, Virtual, October 2020. Tableau Visualization

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<sup>10</sup> Best Presentation Award

<sup>11</sup> Outstanding PhD Student Award

<sup>12</sup> Best Paper Award

- [CP12] What's the Hub Bub about Having a Hub? (2020) Convened session with Conrad N. Hilton Foundation, Millennium Water Alliance, IRC WASH, and the Sustainable WASH Systems Program. University of North Carolina Water and Health Conference, Virtual, October 2020.
- [CP11] Chintalapati, P., Nyaga, C., Walters, J., **Javernick-Will, A.**, and K. Linden (2020). Financial and functionality returns of professional maintenance of rural water services in Kenya. University of North Carolina Water and Health Conference, Virtual, October 2020.
- [CP10] Harper, J., Bielefeldt, A., **Javernick-Will, A.**, Veasna, T., and C. Nicoletti (2020). Household Preferences for Rural Fecal Sludge Management Service Attributes: A Discrete Choice Experiment. 2019 WASH Symposium, University of Colorado Boulder, Boulder, CO, March 2020.
- [CP9] Harper, J., Bielefeldt, A., **Javernick-Will, A.**, Asaduzzaman, M., & Karki, S. (2019). Why Pit Emptiers in Rural Bangladesh Do What They Do?: Decision-making in Fecal Sludge Management. University of North Carolina Water and Health Conference, Chapel Hill, North Carolina, USA, October 2019.
- [CP8] Cord, C.; **Javernick-Will, A.**; Chintalapati, P.; Lockwood, H.; Linden, K. (2019). Preventing failure in rural WASH systems: mapping and modeling rural water maintenance approaches. University of North Carolina Water and Health Conference, Chapel Hill, North Carolina, USA, October 2019.
- [CP7] Venable, C., **Javernick-Will, A.**, Liel, A. (2019). "Perceptions of Reconstructed Housing Safety in Ten Filipino Communities Following Typhoon Haiyan." Natural Hazards Workshop. Broomfield, CO, July 2019.
- [CP6] Valcourt, N., Walters, J., **Javernick-Will, A.**, & Linden, K. (2019). Embracing Complexity: Thinking in systems and what it means for WASH. All Systems Go - WASH Systems Symposium, The Hague, Netherlands, March 2019.
- [CP5] Valcourt, N., Walters, J., **Javernick-Will, A.**, & Linden, K. (2019). Exploring the Complexity of Local WASH Systems: A Participatory Factor Mapping Workshop. All Systems Go - WASH Systems Symposium, The Hague, Netherlands, March 2019.
- [CP4] Harper, J., Bielefeldt, A., **Javernick-Will, A.** (2019). "Describing and Improving Behaviors When Rural Latrine Pits Fill: A Randomized Controlled Trial". 2019 FSM5 Conference, Capetown, South Africa, February 2019.
- [CP3] Harper, J.\*\*, Bielefeldt, A., **Javernick-Will, A.**, Veasna, T., & Nicoletti, C. (2018). What Are You Going To Do With All That Poo: FSM Decision-making in Rural Low-income Cambodia. 2018 Water and Health Conference, University of North Carolina, North Carolina, October 2018.
- [CP2] Harper, J., Bielefeldt, A., & **Javernick-Will, A.** (2018). Intentions Toward Fecal Sludge Management in Rural Developing Communities. Presented at the Metropolitan State University's Humanitarian Engineering Symposium, Denver, CO, April 2018. Available at <https://bit.ly/39QowN0>.

- [CP1] Tracy, A. and **Javernick-Will, A.** (2018). "Trust of information sources regarding oil and gas development and induced seismicity." Presentation. 24<sup>th</sup> International Symposium on Society and Natural Resources, Salt Lake City, Utah, June 2018

## **INVITED PROFESSIONAL PRESENTATIONS**

- [P44] Institute of Behavioral Science, University of Colorado, "Collaboratively strengthening infrastructure systems". April 2024.
- [P43] University of Sydney, "PhD Workshop". March 2024.
- [P42] University of Sydney, "Enhancing the sustainability and resiliency of infrastructure: Collaboratively strengthening systems". March 2024.
- [P41] NIST, "Identifying misalignments between the informal construction sector's perceptions and engineering assessments of housing safety for capacity development in Puerto Rico", January 2024.
- [P40] ASCE Puerto Rico Chapter, "Building Capacity for Safe, Resilient Housing", January 2024.
- [P39] Oxford University, "Pathways to sustainable & resilient infrastructure: Collaboratively strengthening systems". November 2023.
- [P38] University of Colorado Women's Club, "Pathways to Community Recovery following a Disaster". March 2023.
- [P37] Department of Energy, "Networks". November 2021.
- [P36] Sustainable WASH Systems Closeout Event & Learning Series. 5 DAY Event. September 20, "Welcome & Event Launch"; Sept 22 "Systems Understanding & Engagement", Sept 27 "Professionalized Water Supply Maintenance"; Sept 29 "Collective Action", Sept 30 "Bringing it all Together". <https://www.globalwaters.org/events/sustainable-wash-systems-closeout-event-learning-series-swslearning>
- [P35] Webinar through USAID SWS, "Collective Action in WASH: Findings from SWS". June 2021.
- [P34] Invited Speaker, Purdue Construction Engineering and Management Seminar Series, "Cultivating disaster risk reduction and recovery". September 2020.
- [P33] Invited Moderator. USAID Webinar. Strengthening WASH Networks in Ethiopia: Analyzing an Urban Sanitation System. May 2020.
- [P32] Invited Speaker, CalPoly EWB Alumni and Student Weekend. Virtual Presentation. May 2020.
- [P31] Invited Inaugural Liles Distinguished Lecture at Clemson University. February 2020.
- [P30] Invited Speaker, Humanitarian Engineering Lecture Series. "After the Mess: Engineers, Resilient Infrastructure, and Communities in the Midst of Post-Disaster Recovery", Colorado School of Mines, October 2019.
- [P29] Invited panelist, USAID/OFDA Academic Practitioner Collaborative Research Forum, Interaction, June 2019.
- [P28] Invited Workshop for the Institute of Behavioral Science's Interdisciplinary Training in the

- Social Science's Workshop on Qualitative Methods. "Qualitative Comparative Analysis (QCA) and Fuzzy-Set Qualitative Comparative Analysis (fsQCA): Methods and Analytic Tools", Boulder, CO, April 2019.
- [P27] Invited Award Acceptance Plenary for the Daniel W. Halpin Award for Scholarship in Construction. "The Society-Infrastructure Nexus: Networks, Resilience, & Recovery". 2018 Construction Research Congress, New Orleans, Louisiana, April 2018.
- [P26] Invited Panelist. Natural Hazards' Interdisciplinary Methods and Approaches for Hazards and Disaster Research: A National Science Foundation Workshop Series, Boulder, CO, February 2018.
- [P25] Stanford University's Frontiers Seminar Series, "Frontiers in Disaster Research: Resilient Infrastructure and Communities", Stanford, CA, November 2017.
- [P24] Auckland City Council Workshop, "Post-Disaster Reconstruction and Recovery", Auckland, New Zealand, May 2017.
- [P23] University of Auckland, Inaugural speaker for the Climate Adaptation Technical Seminar, "Post-Disaster Reconstruction and Recovery", Auckland, New Zealand, May 2017.
- [P22] University of Canterbury, "Post-Disaster Recovery: Resilient Infrastructure and Communities", Christchurch, New Zealand, February 2017.
- [P21] iRec, "Participation Pathways to Increased Social Capital in Humanitarian Shelter Projects", Toronto, CA, June 2017.
- [P20] Philippines Shelter Cluster Meeting, "Post-Disaster Recovery in the Philippines", Manila, Philippines, November 2016.
- [P19] United Nation's Habitat 3 Conference, Interaction Organization Session, "Partnering to foster Holistic Post-Disaster Recovery through Research: Resilient Infrastructure and Communities", Quito, Ecuador, October 2016.
- [P18] Department of Energy, "Network Strategies to enhance Organizational Knowledge Sharing", University of Colorado Boulder, Boulder, CO, August 2016
- [P17] Georgia Tech Frontiers Seminar Series "Frontiers in Disaster Research: Resilient Infrastructure and Communities", Georgia Tech, GA, January 2016.
- [P16] "Social Network Analysis in Civil Infrastructure Systems", CU-Boulder, November 2015.
- [P15] Plenary, National Academy of Engineering, 2015 Frontiers of Engineering Education Symposium "Exploring Engineers of the Future through Engineers without Borders", October 2015.
- [P14] Valencia Construction Conference "Organizational Knowledge Sharing, Valencia, Spain, May 2015.
- [P13] Guest Lecture Series, University of Colorado-Denver. Invited talk to present "Disaster Recovery in Sri Lanka and India", Denver, CO, February 2015.
- [P12] National Science Foundation Fellowship and invited presentation at NSF North America East Asia for Big Data on ISBR. "Post-disaster reconstruction processes and coordination networks". Beijing, China. September 2014.

- [P11] American Association of Engineering Societies Board Meeting, “Who will be the Future Engineers?”, Washington D.C., October 2013.
- [P10] Humanitarian Engineering Guest Lecture Series, Colorado School of Mines, October 2013.
- [P9] Construction Industry Institute Global Community of Practice, “How well is your organization exchanging knowledge globally?”. Virtual Meeting, July 2013.
- [P8] Construction Owner’s Association Conference “Managing the Design Process for Design-Build Projects”. Atlanta, GA, May 2013.
- [P7] Northwest Construction Consumer Council Conference “Predicting Project and Organizational Outcomes using Network Analysis”. Seattle, WA, November 2012.
- [P6] USAID (United States Agency for International Development) Post-Disaster Infrastructure Reconstruction Workshop “Measuring Community Resilience and Post-Disaster Recovery”. Washington DC, December 2012.
- [P5] Organization Science Winter Conference, “Future Directions in Organizational Memory”, Steamboat Springs, CO, February 2011.
- [P4] Indian Institute of Technology, “Understanding Knowledge Acquisition and Transfer for Global Development, Contracting and Engineering Firms”. Chennai, India, April 2008.
- [P3] Helsinki University of Technology, “Knowledge Transfer for firms engaged in International Projects”, Helsinki, Finland, February 2008.
- [P2] USGBC Greenbuild 2006, “Environmental Protection Agency Region 8 Headquarters”, Denver, CO, November 2006.
- [P1] 2006 National Workshop on State Building Energy Codes, “Sustainable Development” with Shane Brady, US EPA; Cathy Berlow, US EPA; Courtney France, AEC., U.S. Department of Energy, Denver, CO, August 2006.

## **PROFESSIONAL DEVELOPMENT**

Shared Equity Leadership- Learning Journey 1: The Fundamentals, *University of Colorado Boulder*, 2025.

Academic Leaders Institute Training (New Leader’s Orientation, Mini-Conference, Luncheon Sessions (CRPT 1, CRPT 2, Sabbatical Applications, FRPA, APS 5060), *University of Colorado Boulder*, 2024-2025.

Crucial Accountability Refresher Course, *University of Colorado Boulder*, 2024.

Excellence in Leadership Program, *University of Colorado*, 2022-2023.

Academic Leaders Institute Training, *University of Colorado Boulder*, 2020.

In-depth Media Coaching, *University of Colorado Strategic Communication*, October 2019.

National Science Foundation Coastlines & People Workshop, *San Diego, CA*, September 2018.

National Science Foundation Research in Engineering Practice Workshop, *San Jose, CA*, October 2018.

Crucial Accountability Course, *Boulder, CO*, June 2018.

Crucial Conversations Course, *Boulder, CO*, June 2017.

Philippines Shelter Cluster Meeting, *Tacloban, Philippines*, November 2016.  
United Nation's Habitat 3 Conference, *Quito, Ecuador*, October 2016.  
Penn State PACE, Innovation Research Roadmapping Workshop, *Pennsylvania*, June 2015.  
National Science Foundation IDEAS Lab, *Virginia*, March 2014.  
Presenting Data and Information, Edward Tufte in *Denver, CO* for Friday, July 2012  
ASCE ExCEED Teaching Workshop, Hosted by the University of Colorado at *Boulder, CO*, July 2010.  
National Science Foundation CAREER Workshop, Hosted by the University of Connecticut, *Hartford, CT*, April 2011.  
National Science Foundation Construction Engineering Conference, Virginia Tech, *Blacksburg, VA*, 2010.

## FUNDED RESEARCH PROJECTS

### In Progress

- [R34] National Science Foundation, Strengthening America's Infrastructure program, "Empowering collective, science-based action to strengthen school infrastructure safety", PI: Liel, Co-PI: Javernick-Will, Alvarado. \$746,142, CU Share: \$550,122. 2025-2027.
- [R32] Environmental Protection Agency, National Priorities: Water Innovation, Science, and Engagement to Advance Water Reuse. "Unlocking the Nationwide Potential of Water Reuse". PI Spahr, CoPIs Linden, Dickenson, Cath, Neukrug. My role: Co-PI with Sherri Cook on Topics D and E. \$3,245,999. CU Share: \$1,660,252. Cook/Javernick-Will Share: \$721,970. 2022-2026.
- [R31] National Science Foundation, Research in the Formation of Engineers Program. "Engineering for Social Justice: Factors shaping the career aspirations and mindsets of humanitarian engineers". PI Javernick-Will, co-PI Tanksley, \$349,985. 2022-2025.
- [R30] National Science Foundation, Science of Organizations. Organizational challenges of post-fire recovery: decision making, collective action, and community outcomes. PI: Javernick-Will. Co-PIs Liel and Koschmann. \$428,146. 2022-2025.
- [R27] Office of Postsecondary Education (OPE): Graduate Areas of National Need (GAANN): Resilient and Equitable Infrastructure through Inclusive Engineering. PI: Javernick-Will, Co-PIs: Liel, Kasprzyk, Thomas, Baker, Dashti. SPs: Linden, Livneh, MacDonald, Corotis. \$1,143,732. 2021-2025.

### Completed

- [R33] Engineering Education and AI-Augmented Learning Interdisciplinary Research Theme Seed Grant. "Glitching the System: Examining Race-Conscious and Justice-Oriented Approaches to AI and Computing Education with Black Youth". My role: Co-PI with Tiera Tanksley (School of Education). \$29,992. 2023-2024.

- [R29] 2022 Innovative Seed Grant Program (ISGP). “Engineering for Social Justice: How Decolonial and Anti-Racist Mindsets Shape the Career Aspirations of Humanitarian Engineers”. PI Tanksley, Co-PI Javernick-Will \$49,015. 2022-2023.
- [R19] National Science Foundation, HDBE, “Building Capacity for Safer Post-Disaster Shelter: Leveraging Local Understanding and Advanced Engineering Assessments”, PI: Javernick-Will, Co-PIs: Liel and Koschmann. \$499,867, 2019- 2024.
- [R18] Office of Postsecondary Education (OPE): Graduate Areas of National Need (GAANN): Integrative Reengineering of Infrastructure for Tomorrow’s Communities. PI: Abbie Liel. Role: Co-PI. \$1.2 million. 2018 – 2023.
- [R28] National Science Foundation, RAPID. Collaborative Research: Rapid - Investigation of 2021 Marshall Fire Impacts on Physical Infrastructure and Decision-Making Processes. My role: co-PI. \$23,322. 2022.
- [R26] Planning Grant, National Science Foundation, Engineering Research Center. NSF Engineering Research Center for Integrating Native Solutions to Promote and Inform Resilient Engineering (INSPIRE). PI Karl Linden, Role: Senior Personnel. \$99,999. 2021-2022.
- [R25] National Science Foundation, INTERN Supplement: Building Capacity for Safer Post-Disaster Shelter: Leveraging Local Understanding and Advanced Engineering Assessments PI: Javernick-Will, co-PIs: Abbie Liel and Matt Koschmann. \$48,575, 2021.
- [R23] United States Agency for International Development (USAID). Accelerating Peri-Urban Water and Sanitation Services in Kasai Oriental and Lomami Provinces. BAA-DRC-WASH-2018, PI: Chemonics, Role: Senior Personnel/Technical Advisory. \$21,789,203.
- [R24] CEAS RISE Seed Funding, Type 1. Electric vehicle adoption and associated impacts on infrastructure and society. PI Baker, Role: co-PI. \$8,500. 2021.
- [R22] National Science Foundation “Defining the Emerging Pedagogy in the Field of Global Engineering”. PI Linden, Co-PI’s: Javernick-Will, MacDonald, and Thomas. \$49,896. 2020-2021.
- [R21] National Science Foundation, REU Supplement: Building Capacity for Safer Post-Disaster Shelter: Leveraging Local Understanding and Advanced Engineering Assessments PI: Javernick-Will, co-PI: Liel. \$8,000, 2020.
- [R16] United States Agency for International Development (USAID). Systematic Action Learning for WASH: Comparative systems learning and methods for WASH sustainability. Water Office. BAA-OAA-SWS-2016, PI: Linden, co-PI: Javernick-Will. \$15,329,049. 2016-2021.
- [R14] National Science Foundation, Hazards SEES: The Risk Landscape of Earthquakes Induced by Deep Wastewater Injection, PI: Liel; Role: co-PI. \$2,997,112, 2015-2021.
- [R20] 2019 Innovative Seed Grant Program (ISGP). “Building seismic resilience of incrementally-constructed buildings”. PI: Liel, co-PI: Javernick-Will, Collaborator: Orlando Arrayo. \$49,845. 2019- 2021.

- [R17] 2017 Innovative Seed Grant Program (ISGP). "Post-disaster Housing Reconstruction: Participation, Performance, and Community Resilience". PI: Javernick-Will, co-PI: Abbie Liel. \$49,927. 2017- 2019.
- [R15] Office of Postsecondary Education (OPE): Graduate Areas of National Need (GAANN)—Engineering Community Resilience. Program CFDS Number 84.200A. PI: Corotis; co-PIs: Bielefeldt, Porter, Liel, Dashti and Javernick-Will. \$885,834, 2015-2020.
- [R13] National Science Foundation, Civil Infrastructure Systems (CiS) and Infrastructure Management in Extreme Events (IMEE), "Resilient and Sustainable Infrastructure Systems: Post-Disaster Reconstruction Processes and Stakeholder Networks". PI: Javernick-Will; co-PI: Koschmann. \$300,101. 2014-2019.
- [R12] National Science Foundation, Science of Organizations (SoO), "Knowledge Governance and its Effects on Knowledge Mobilization". PI: Javernick-Will; co-PI: Tong. \$301,695, 2014-2019.
- [R11] National Science Foundation, Resilient Infrastructure Processes and Systems (RIPS) Type 1: "The Interdependence of Built, Social and Information Infrastructures for Community Resilience: A Participatory Process". PI: Liel, co-PIs: Palen, Goldstein, Dashti, Javernick-Will \$299,219, 2014-2015.
- [R10] Construction Industry Institute (CII), RT325, Maximizing the Performance of Virtual Teams, PIs: John (JT) Taylor, Javernick-Will. \$231,160, 2014-2016.
- [R9] San Francisco County Transportation Authority (SFCTA), "A Case Study Comparing Conventional Project Delivery and Public-Private Partnership". PIs: Cui, Molenaar, co-PI: Javernick-Will. \$489,542, 2013-2019.
- [R8] National Cooperative Highway Research Program, NCHRP08-36, Task 121, "Successful Implementation of Enterprise Risk Management in State Transportation Agencies". PI: Molenaar, co-PIs: Javernick-Will and Hallowell. \$74,967, 2013-2014.
- [R7] National Science Foundation, REU Supplement: Investigating the Structure of EWB-USA project teams, PI: Javernick-Will. \$17,494, 2012-2016.
- [R6] National Science Foundation, IMEE, "A Qualitative Comparative Analysis of Community Recovery", PI: Javernick-Will, co-PIs: Amadei, Tierney, Ragin, \$269,989, 2012-2016.
- [R5] National Science Foundation, VOSS, "VOSS: Creating Global, Multi-Lateral, Knowledge-Sharing Communities of Practice", PI: Javernick-Will; co-PIs Chinowsky, Riddle, John (JT) Taylor, \$399,806, 2011-2015.
- [R4] National Science Foundation, REE, "Collaborative Research: Gender Diversity, Identity and EWB-USA", PI: Javernick-Will, co-PI: Cathy Leslie, \$268,138, 2011-2016.
- [R3] University of Colorado—President's Learning and Teaching Collaborative, Assessment of Teaching Interventions on Learning Objectives for Global Engineering, \$1,550, 2011-2013.



- [R2] Construction Industry Institute (CII), “Methods for Dealing with Uncertainty—Applying Probabilistic Controls in Construction”, Pls Molenaar and Javernick-Will, \$176,335, 2010-2013.
- [R1] Center for Integrated Facility Engineering (CIFE) and the Collaboratory for Research on Global Projects (CRGP), “Understanding Knowledge Acquisition and Transfer by Global Development, Construction and Engineering Firms”, PI Javernick-Will, co-PI Levitt, \$40,000, 2007–2009.

### **Under Review**

- [RS1] National Science Foundation, Science of Organizations, “Collaborative Research: Organizing for Safe Water Services: Identifying Pathways to Successful Risk Management”, PI: Javernick-Will, coPIs: Spearing, Linden, Polman, \$516,306, CU Share: \$310,339. 2025-2028.

## **TEACHING**

### **New Course Development**

**Fall, 2014, AREN 4506, Pre-construction Estimating and Scheduling**, Undergraduate Elective, 3 credit hours. Developed a course for students that teaches pre-construction project planning, estimating and scheduling. Students are introduced and complete estimating and scheduling assignments, complete multiple labs for software, including RS Means and P6, and schedule and estimate a project.

**Spring, 2012, CVEN 5206 Design Development**, Graduate Course, 3 credit hours. Redeveloped a course for students that analyzes the financial feasibility of projects through net operating income (NOI) statements and design decisions that influence financial feasibility. Describes the interdisciplinary process of design decisions, managing the design process, and feasibility considerations with the local municipalities. Culminates in a response to a Request for Proposal (RFP) with the design, conceptual estimate, conceptual schedule, and financial statements for a project.

**Spring, 2011, CVEN 5836 Managing Projects and Organizations**, Graduate Course, 3 credit hours. Created a new course for students, combining 3 lectures from prior course on Engineering Organizations, 7 lectures from Global Projects and Organizations, newly developed the remaining lectures to include case studies, readings and discussion on strategy, resource management, organizational structure, stratification, and managing groups and teams.

**Spring, 2010, CVEN 5836 Global Projects and Organizations**, Graduate Elective, 3 credit hours. Created a new course for students focusing on global projects and organizations. This course examines institutional differences between project participants and looks at current literature regarding the challenges of global projects- social movements, project governance, etc.

## Courses Taught

| Course Number | Course Name                               | Type of Class                                  | Semesters   | Number of Students |
|---------------|-------------------------------------------|------------------------------------------------|-------------|--------------------|
| AREN 4506     | Preconstruction Estimating and Scheduling | Undergraduate Elective                         | Fall 2014   | 34                 |
|               |                                           |                                                | Spring 2015 | 24                 |
|               |                                           |                                                | Fall 2015   | 27                 |
|               |                                           |                                                | Fall 2017   | 40                 |
|               |                                           |                                                | Fall 2018   | 47                 |
|               |                                           |                                                | Fall 2019   | 51                 |
|               |                                           |                                                | Fall 2020   | 50                 |
|               |                                           |                                                | Spring 2023 | 36                 |
| AREN 4466     | Construction Planning and Scheduling      | Undergraduate Elective                         | Fall 2010   | 44                 |
|               |                                           |                                                | Fall 2011   | 67                 |
|               |                                           |                                                | Fall 2012   | 52                 |
|               |                                           |                                                | Fall 2013   | 36                 |
| CVEN 5206     | Design-Build Development                  | Graduate Elective                              | Spring 2012 | 21                 |
|               |                                           |                                                | Spring 2013 | 18                 |
| CVEN 5346     | Managing Projects and Organizations       | CEM Graduate Requirement/<br>Graduate Elective | Spring 2011 | 16                 |
|               |                                           |                                                | Fall 2012   | 19                 |
|               |                                           |                                                | Fall 2013   | 12                 |
|               |                                           |                                                | Fall 2014   | 12                 |
|               |                                           |                                                | Spring 2016 | 21                 |
|               |                                           |                                                | Spring 2018 | 14                 |
|               |                                           |                                                | Spring 2019 | 14                 |
|               |                                           |                                                | Spring 2020 | 14                 |
|               |                                           |                                                | Spring 2021 | 18                 |
|               |                                           |                                                | Spring 2022 | 17                 |
|               |                                           |                                                | Spring 2023 | 15                 |
|               |                                           |                                                | Fall 2024   | 18                 |
| CVEN 5836     | Global Projects and Organizations         | Graduate Requirement                           | Spring 2010 | 14                 |

## STUDENT ADVISING

(All titles shortened to encompass main ideas for brevity)

\*Collaboratively advised/chaired; +Co-Chaired; <sup>1</sup>MS thesis option; <sup>2</sup>MS report option

### Current Graduate Student Committees Chaired (7: 6 PhD, 1 MS)

|                           |                  |                                                 |               |
|---------------------------|------------------|-------------------------------------------------|---------------|
| Felmlee-Gartner, Jeanette | PhD*             | "Collective Action for School Building Safety"  | Expected 2027 |
| Gershon, Noah             | PhD*             | "Rebuilding homes postfire"                     | Expected 2026 |
| Sardana, Prakriti         | PhD              | "Pathways to water reuse in the US"             | Expected 2026 |
| Wells, Emma               | PhD*             | "Pathways to safe water quality"                | Expected 2026 |
| Siddiq, Ilham             | PhD              | "Evacuation Planning and Behavior"              | Expected 2025 |
| Stine, Emma               | PhD              | "Decolonization & Humanitarian Engineering"     | Expected 2025 |
| Lee, Isabella             | MS <sup>1*</sup> | "Contractor's Roles in Sustainable Home Design" | Expected 2025 |

### Former Graduate Student Committees Chaired\* (35: 21 PhD, 15 MS)

|                            |                  |                                               |                |
|----------------------------|------------------|-----------------------------------------------|----------------|
| Pandey, Manjeet            | MS <sup>1</sup>  | "Humanitarian Engineering Careers"            | Graduated 2024 |
| Ellery, Megan <sup>1</sup> | MS <sup>1*</sup> | "Jurisdictional decision-making post-fire"    | Graduated 2023 |
| Ventura, Rebecca           | PhD              | "Socially Accepted Sanitation"                | Graduated 2023 |
| Goldwyn, Briar             | PhD*             | "DRR in informally constructed houses"        | Graduated 2022 |
| Cord, Caleb                | PhD*             | "Preventive Maintenance for WASH"             | Graduated 2021 |
| Chintalapati, Pranav       | PhD <sup>+</sup> | "Systems based preventive maintenance"        | Graduated 2021 |
| Pugel, Kimberly            | PhD              | "Collective approaches for WASH"              | Graduated 2021 |
| Harper, James              | PhD <sup>+</sup> | "Behavior Change & FSM"                       | Graduated 2020 |
| Venable, Casie             | PhD*             | "Post-Disaster Housing Safety and Resiliency" | Graduated 2020 |
| Tracy, Andrew              | PhD              | "Induced Seismicity and Information Networks" | Graduated 2020 |
| Palagi, Shaye              | PhD              | "Relocation and Infrastructure Resiliency"    | Graduated 2020 |
| Valcourt, Nicholas         | PhD              | "WASH Systems Analysis"                       | Graduated 2019 |
| Davis, Allie               | PhD*             | "Sustainable Sanitation Systems"              | Graduated 2019 |
| Belenguer Alejandro        | MS <sup>2</sup>  | "Implementation of Lessons Learned Program"   | Graduated 2018 |
| Arneson, Erin              | PhD*             | "Construction Capacity"                       | Graduated 2018 |
| Olearts, Liesbet           | MS <sup>1+</sup> | "P3 for WASH Service Sustainability"          | Graduated 2018 |
| Poleacovschi, Cristina     | PhD              | "Knowledge Governance"                        | Graduated 2017 |
| Opdyke, Aaron              | PhD              | "Post-disaster infrastructure construction"   | Graduated 2017 |
| Zerio, Alex.               | MS <sup>1</sup>  | "Learning Styles and Post-disaster Training"  | Graduated 2017 |
| Antillon, Eric             | PhD*             | "P3's and Life-cycle decision-making"         | Graduated 2016 |
| Beatelmal, Wesam           | PhD*             | "Asset Management in Developing Countries"    | Graduated 2016 |
| Walters, Jeff              | PhD*             | "Sustainable Systems: Rural Water"            | Graduated 2015 |
| Lepropre, Florence         | MS <sup>1</sup>  | Post-disaster Coordination Networks           | Graduated 2015 |
| Litchfield, Kaitlin        | PhD              | "Gender, Identity and Engineering"            | Graduated 2014 |
| Wanberg, John              | PhD              | "CoPs & Knowledge Mobilization"               | Graduated 2014 |
| Anderson, Barbara          | MS <sup>1</sup>  | "Post-disaster NGO coordination"              | Graduated 2014 |
| Kaminsky, Jessica          | PhD              | "Sustainable Sanitation"                      | Graduated 2013 |
| Jordan, Elizabeth          | PhD              | "Pathways to Community Recovery"              | Graduated 2013 |
| Berteaux, Florence         | MS <sup>1</sup>  | "Adaptation vs. Integration"                  | Graduated 2013 |
| Choi, Jung Kue             | MS <sup>2</sup>  | "Real Estate Challenges of Songdo City"       | Graduated 2013 |
| Senei, Maryam              | MS <sup>1</sup>  | "Generation spanning Knowledge Exchange"      | Graduated 2012 |
| Senesi, Christopher        | MS <sup>1</sup>  | "Probabilistic Controls"                      | Graduated 2012 |

|                    |                 |                                            |                |
|--------------------|-----------------|--------------------------------------------|----------------|
| Arnold, Paul       | MS <sup>1</sup> | "Project Wide Access"                      | Graduated 2011 |
| Alrakhayes, Shahed | MS <sup>2</sup> | "Enterprise Risk Management"               | Graduated 2011 |
| La Ratta, Anna     | MS <sup>1</sup> | "Project Scope Management"                 | Graduated 2011 |
|                    |                 | University of Calabria, Italy (Co-Advisor) |                |
| Jouandou, Remi     | MS <sup>1</sup> | "Probabilistic Controls"                   | Graduated 2010 |

### **Graduate Committee Participation (other than primary advisor)**

#### **Current (3)**

|                      |     |                                |                |
|----------------------|-----|--------------------------------|----------------|
| Ecklu, John          | PhD | University of Colorado Boulder | 2022 – Current |
| Kirsch, Kathleen     | PhD | University of Colorado Boulder | 2021 – Current |
| Galotti, Victor      | PhD | University of Colorado Boulder | 2021 – Current |
| Contreras, Francisco | PhD | University of Colorado Boulder | 2022 – Current |

#### **Past Graduates (25)**

|                         |                 |                                |                |
|-------------------------|-----------------|--------------------------------|----------------|
| Tisdale, Joany          | PhD             | University of Colorado Boulder | Graduated 2023 |
| Holland, Melanie        | PhD             | University of Colorado Boulder | Graduated 2023 |
| Seites-Rundlett, Bill   | PhD             | University of Colorado Boulder | Graduated 2022 |
| Libey, Anna             | PhD             | University of Colorado Boulder | Graduated 2022 |
| Murray, Barbara (Polly) | PhD             | University of Colorado Boulder | Graduated 2021 |
| Chambers, Katie         | PhD             | University of Colorado Boulder | Graduated 2021 |
| Komarek, Rebecca        | PhD             | University of Colorado Boulder | Graduated 2020 |
| Bittel, Elizabeth       | PhD             | University of Colorado Boulder | Graduated 2019 |
| Zelinka, David          | PhD             | University of Colorado Boulder | Graduated 2019 |
| Kwiatkowski, Kyle       | PhD             | University of Colorado Boulder | Graduated 2017 |
| Albattah, Mohammed      | PhD             | University of Colorado Boulder | Graduated 2016 |
| Myers, Beth             | PhD             | University of Colorado Boulder | Graduated 2016 |
| Forbes, Marissa         | PhD             | University of Colorado Boulder | Graduated 2016 |
| Rulifson, Greg          | PhD             | University of Colorado Boulder | Graduated 2015 |
| France, Todd            | PhD             | University of Colorado Boulder | Graduated 2015 |
| Harper, Chris           | PhD             | University of Colorado Boulder | Graduated 2014 |
| Booth, Emily            | MS <sup>2</sup> | University of Colorado Boulder | Graduated 2014 |
| Canney, Nathan          | PhD             | University of Colorado Boulder | Graduated 2013 |
| Sobin, Nat              | PhD             | University of Colorado Boulder | Graduated 2013 |
| Alsamadani, Rayyan      | PhD             | University of Colorado Boulder | Graduated 2013 |
| Chatterley, Christie    | PhD             | University of Colorado Boulder | Graduated 2013 |
| Tixior, Antoinne        | MS <sup>1</sup> | University of Colorado Boulder | Graduated 2013 |
| O'Brien, John           | PhD             | University of Colorado Boulder | Graduated 2012 |
| Crawford, Mac           | MS <sup>1</sup> | University of Colorado Boulder | Graduated 2012 |
| Baud, Kevin             | MS <sup>1</sup> | University of Colorado Boulder | Graduated 2012 |
| Matsumura, Kristen      | MS <sup>1</sup> | University of Colorado Boulder | Graduated 2012 |
| Issa, Ibrahim           | MS <sup>2</sup> | University of Colorado Boulder | Graduated 2011 |
| Roucheray, Marielle     | MS <sup>2</sup> | University of Colorado Boulder | Graduated 2011 |
| Morales, Arturo         | MS <sup>1</sup> | University of Colorado Boulder | Graduated 2011 |

Chi, Shu Fang                      PhD      Stanford University                                              Graduated 2011

**Undergraduate Research Advising (41)**

|                     |      |                                                 |                |
|---------------------|------|-------------------------------------------------|----------------|
| Oulette, Laura      | DLA  | Post-fire sustainability & resiliency outcomes  | 2024 – Current |
| Lee, Isabella       | DLA  | Post-fire rebuilding decisions                  | 2023 – 2024    |
| Deblasio, Benjamin  | DLA  | Humanitarian Engineering Discord Communities    | 2022 – 2023    |
| Munoz, Luis         | DLA  | Socially Accepted Sanitation                    | 2022 – 2023    |
| Patton, Catherine   | DLA  | Social Justice Development in Engineering       | 2022 – 2023    |
| Kroll, Anna         | DLA  | Post-fire decision making                       | 2022 – 2023    |
| Johnson, Colleen    | DLA  | Post-fire rebuilding by contractors             | 2022 – 2023    |
| Velasquez, Cole     | DLA  | Communication intervention for safe housing     | 2021 - 2022    |
| Chang, Caroline     | DLA  | Humanitarian Eng. Community in Discord          | 2021 - 2022    |
| McReynolds, Desmond | SPUR | Citation Justice in JCEM                        | 2021           |
| González, Yarelis   | REU  | Contractors perceptions of housing safety       | 2019-2021      |
| Spangler, Ava       | DLA  | Institutions and Preventive Maintenance         | 2020-2021      |
| Sandifer, Eleanor   | DLA  | Collective Action for sustained WASH            | 2019-2020      |
| Johnson, Kate       | DLA  | Understanding perceptions of safe housing       | 2019-2020      |
| Fink, Eliza         | DLA  | Preventive Maintenance for Sustained Service    | 2019-2020      |
| Shakir, Nadir       | DLA  | FSM                                             | 2018-2019      |
| Gray, Kathryn       | DLA  | “Resettlements: Holistic Recovery?”             | 2018-2019      |
| Hendricks, Jess     | DLA  | “Lightly Engineered Shelter Screening Tool”     | 2018-2019      |
| Buckley, Shelby     | URA  | “Human Behavior and FSM”                        | 2018           |
| Golec, Tesia        | DLA  | “Success and Failure of Sanitation in India”    | 2017-2018      |
| Lannis, Alexi       | DLA  | “WASH Factor Systems”                           | 2017-2018      |
| Berger, Joel        | DLA  | “Post-Disaster Shelter Performance”             | 2017-2018      |
| Eiss, Sydney        | DLA  | “Resilience in Resettlement Sites”              | 2017-2018      |
| Gebremedhin, Mussie | URA  | “(f)actor systems in WASH”                      | 2017-2018      |
| Thompson, Vanessa   | URA  | “Sustainable Sanitation in India”               | 2017           |
| Riley, Austin       | DLA  | “Decision-making for Disaster Risk Reduction”   | 2016-2017      |
| Geer, Garret        | DLA  | “Sustainable Sanitation in India”               | 2016-2017      |
| Klucik, Rudolf      | URA  | “Webcrawling: Induced Seismicity Networks”      | 2016-2017      |
| Baummer, Devon      | DLA  | “Information Seeking around Induced Seismicity” | 2016-2017      |
| Thomas, Whitney     | URA  | “Construction supply chain Capacity”            | 2015-2016      |
| Grunwald, Bryn      | URA  | “Post-disaster construction training”           | 2015-2016      |
| Moench, Hannah      | URA  | “Post-disaster coordination in the Philippines” | 2015-2016      |
| Goddard, Haley      | URA  | “Knowledge Governance”                          | 2014-2016      |
| Fohrman, Maya       | URA  | “Post-disaster coordination in the Philippines” | 2014           |
| Palagi, Shaye       | DLA  | “Disaster Recovery in Sri Lanka”                | 2013-2015      |
| Watcher, Alayna     | REU  | “EWB Project Team Structure”                    | 2012-2015      |
| Bryne, Jessica      | URA  | “Expected Outcomes in an Engineering”           | 2012-2014      |
| Walker, Amanda      | URA  | “Boundary-spanning knowledge sharing”           | 2012- 2013     |
| Havener, Celeste    | DLA  | “Disaster Recovery in Communities”              | 2012- 2013     |
| Patel, Smit         | DLA  | “Time Zones, Boundaries and Knowledge”          | 2012- 2013     |

|                     |     |                                            |           |
|---------------------|-----|--------------------------------------------|-----------|
| Casias, Casey       | DLA | "EWB and Me"                               | 2011-2012 |
| Kapatayes, Christin | DLA | "Global Organizations: Knowledge Networks" | 2010-2011 |

## STUDENT AWARDS

|                         |                                               |           |
|-------------------------|-----------------------------------------------|-----------|
| Wells, Emma             | AWWA Scholarship                              | 2023      |
| Siddiq, Ilham           | USAID/OFDA Graduate Student Fellowship        | 2022      |
| Wells, Emma             | AWWA Scholarship                              | 2022      |
| Wells, Emma             | NSF GRFP                                      | 2021      |
| Venable, Casie          | USAID/OFDA Graduate Student Fellowship        | 2019      |
| Davis, Allie            | Rotary District 5450 Grant                    | 2019      |
| Harper, James           | Rotary District 5450 Grant                    | 2019      |
| Harper, James           | Research and Innovation Week 1st Place Poster | 2019      |
| Eiss, Sydney            | Best Paper Award, Natural Hazards Society     | 2018      |
| Pugel, Kimberly         | Best Presentation Award, EPOC                 | 2018      |
| Venable, Casie          | ASCE New Faces of Civil Engineering           | 2018      |
| Davis, Allie            | Beverly Sears Graduate Student Grant          | 2018      |
| Pugel, Kimberly         | Dean's Assistantship for Excellence           | 2017      |
| Palagi, Shaye           | USAID/OFDA Graduate Student Fellowship        | 2017      |
| Palagi, Shaye           | NSF GRFP                                      | 2017      |
| Opdyke, Aaron           | USAID/OFDA Graduate Student Fellowship        | 2016      |
| Opdyke, Aaron           | Best Paper Award, EPOC 2016                   | 2016      |
| Davis, Allie            | MCEDC Fellowship                              | 2015-2016 |
| Davis, Allie            | Dean's Fellowship                             | 2015      |
| Poleacovschi, Cristina  | Best Paper Award, EPOC 2015                   | 2015      |
| Poleacovschi, Cristina  | CII Best Poster Award                         | 2015      |
| Palagi, Shaye           | Dean's Assistantship for Excellence           | 2015      |
| Walters, Jeff           | Outstanding Poster Award, EPOC                | 2014      |
| Arneson, Erin           | CEAE Graduate Fellowship                      | 2014      |
| Poleacovschi, Christina | AACE Scholarship                              | 2014      |
| Palagi, Shaye           | CEAE, DLA Best Poster Award                   | 2014      |
| Poleacovschi, Christina | Deans Fellowship                              | 2013      |
| Poleacovschi, Christina | CEAE Graduate Fellowship                      | 2013      |
| Kaminsky, Jessica       | Outstanding PhD Student, EPOC                 | 2013      |
| Litchfield, Kaitlin     | MC-EDC Fellowship                             | 2012      |
| Wanberg, John           | CII Poster Selection Invite                   | 2012      |
| Kaminsky, Jessica       | EPA STAR Fellowship                           | 2011-2014 |
| Kaminsky, Jessica       | MC-EDC Fellowship                             | 2011      |
| Kaminsky, Jessica       | Deans Fellowship                              | 2010-2011 |
| Kaminsky, Jessica       | EWB Fellowship                                | 2011      |
| Kaminsky, Jessica       | CEAE Graduate Fellowship                      | 2010-2012 |
| Jordan, Elizabeth       | Deans Fellowship                              | 2010-2011 |
| Jordan, Elizabeth       | Outstanding PhD Student, EPOC                 | 2011      |

|                      |                                   |      |
|----------------------|-----------------------------------|------|
| Jordan, Elizabeth    | MC-EDC RA                         | 2011 |
| Chatterley, Christie | Water and Health 2011 Scholarship | 2011 |

## **SERVICE ACTIVITIES**

### **Editor:**

Editor, PLOS Water (2021-Current)  
Editorial Board, Journal of Construction Management and Economics (2019-Current)  
IJDRR  
Editor, Journal of Construction Management and Economics (2016-2019)  
Assistant Specialty Editor, Journal of Construction Engineering and Management (2011-2016)

### **Special Issue Editor:**

Co-Editor, Special Issue: "Festschrift Issue in tribute of Ray Levitt" (2020), Journal of Construction Management and Economics. 38(4).  
Co-Editor, Special Issue: Sheltering and Housing Displaced Populations, Sustainability

### **Peer Review:**

National Science Foundation (2011- present), Multiple  
Earthquake Spectra (2019-present)  
Habitat (2019-present)  
Water (2019-present)  
Sustainability (2019-present)  
International Journal of Disaster Risk Reduction (2018-present)  
Habitat (2018-present)  
Natural Hazards Review (2016-present)  
Engineering Management Journal (2014-present)  
International Journal of Project Management (2014-present)  
Environmental Science and Technology (2014-present)  
Journal of Engineering Education (2014-present)  
Canadian Journal of Civil Engineering (2014-present)  
Journal of Automation in Construction (2012-present)  
Journal of Construction Engineering and Management (2009-present)  
Journal of Construction Management and Economics (2009-present)  
Journal of Management in Engineering (2009-present)  
Journal of Professional Issues in Engineering Education and Practice (2013-present)  
ASCE Construction Research Congress (2009, 2010, 2012, 2015, 2016, 2020)  
Engineering Project Organizations Conference (2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020)  
National Science Foundation panel and desk reviewer (2009-present)  
ASCE Sustainable Built Environment Proceedings (2011)  
ASEM Proceedings (2010)  
ASCE Book Publication, MegaProjects (2011)  
Engineering News Record (ENR) Best Projects Judge (2012)

Hong Kong Research Council reviewer (2012)  
Qatar Research Foundation reviewer (2013)

**Conference Session Chair:**

2019 Engineering Project Organizations Conference (EPOC), Conference Co-Chair, Vail, Colorado  
2019 Academic-Practitioner Collaborative Research. Forum, Washington, DC  
2017 Engineering Project Organizations Conference (EPOC), Technical Committee, Stanford, California  
2016 Engineering Project Organizations Conference (EPOC) Technical Committee, Cle Elum, Washington  
2016 Construction Research Congress (CRC) Technical Committee and CII Track Chair, Puerto Rico  
2015 International Construction Specialty Conference (ICSC) Technical Committee and CII Track Chair, Vancouver, BC  
2014 ASCE Construction Research Congress, Atlanta, GA (Organizational Issues Track Chair)  
2013 Engineering Project Organizations Conference, Granby CO  
2012 Engineering Project Organizations Conference, Conference Technical Chair, Netherlands  
2012 ASCE Construction Research Congress, West Lafayette, IN (Organizational and Labor Issues Track Chair)  
2011 Engineering Project Organizations Conference, Estes Park, CO (Organizations Track Chair)

**Committee Participation:**

National

U.S. Department of Energy (DOE) Project Leadership Institute Advisory Board (2020 - Current), Co-Chair (2022-2023), Chair (2023-2024), Past Chair (2025).  
Humanitarian Shelter and Settlements Academic/Practitioner Steering Committee, Interaction (2019-current)  
2019 Academic-Practitioner Collaborative Research Forum, funded by USAID, Washington, DC, Planner and Panelist  
NAE 12-member panel to “Understanding the Engineering Education—Workforce Continuum” (2013-2018)  
Construction Industry Institute, Academic Leadership Committee & Chair of CII Academic Conference Sessions (2014-2016)  
Engineering News Record Outstanding Projects Judge, Mountain Region (2012)  
ASCE Construction Research Council (2009-present)  
ASCE Sustainable Engineering Design Reference Guide, Social Dimensions (2011-2012)  
Construction Industry Institute, Academic Committee (2010-2016)  
Construction Industry Institute, Poster Committee and Judge (2010-2013)  
Construction Industry Institute, Global Community of Practice, Academic Co-Chair (2012-2016)  
Building Futures Council (2010-2011)  
Project Management Institute (2009-2011)  
American Society of Civil Engineers (2008-present)  
Design Build Institute of America (2008-2009)



United States Green Building Council (2005-2009)  
Engineering Project Organizations Society (EPOS) (2009-present)  
Young Americas Coordinator, EPOS (2010-2016)

College/University

Excellence in Leadership Program (2022-2023)  
Inclusive Culture Council (2021-2023)  
Academic Leadership Institute (2020-present)  
College of Engineering and Applied Science Dean's Search Committee (2019-2021)  
Academic Affairs Advisory Committee (2017- 2020)  
Associate Director, Mortenson Center in Global Engineering and Resilience (2015-present)  
Campus Listener, Academic Futures (2017- 2019)  
Faculty Leadership Affairs Group (FLAG), CEAS (2015-2017)  
Boulder Faculty Affairs Leadership Committee (2014-2015)  
Gold Shirt Program (2011-2019)  
Football Recruiting (2012-2013)  
High School Honors Institute (2010)  
Global Development Planning Cohort, University of Colorado-Boulder (2012-2016)

Department

Search Chair, Construction Engineering and Management, Department of Civil, Environmental, and Architectural Engineering (2022-present)  
Justice, Equity, Diversity, and Inclusion (JEDI) Committee, Department of Civil, Environmental, and Architectural Engineering (2021-present)  
Executive Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2020-present)  
Curriculum Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2017-2020)  
Bylaws and Climate Committee (2018-2020)  
Mentoring Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2017-present)  
EDC Faculty Search Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2017-2018)  
Civil Systems Group Leader, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2017-2019)  
EDC Instructor Search Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2017)  
CEAE Faculty Search Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2015-2016)  
Graduate Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2010-2012; 2014-2016)  
Curriculum Committee, Department of Civil, Environmental, and Architectural Engineering, University of Colorado (2012-2014)

Awards Committee, Department of Civil, Environmental, and Architectural Engineering,  
University of Colorado (2010-2011)

Construction Engineering and Management Program Faculty Search Committee, Department of  
Civil, Environmental, and Architectural Engineering, University of Colorado (2011-2012)

Chi Epsilon Faculty Advisor (2011-2013)

Scribe for CEAE Meetings (2010)

Chi Epsilon (1997-present)