



## **Luke Juran, Ph.D.**

Department of Geography and Virginia Water Resources Research Center  
College of Natural Resources & Environment  
Virginia Tech  
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### **APPOINTMENTS**

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- Affiliated Faculty, Center for Coastal Studies, Virginia Tech (2020-Present)
- Affiliated Faculty, Fralin Life Sciences Institute, Virginia Tech (2020-Present)
- Affiliated Faculty, Center for Emerging, Zoonotic, and Arthropod-Borne Pathogens, Virginia Tech (2020-Present)
- Director of Graduate Studies, Department of Geography, Virginia Tech (2019-Present)
- Associate Professor of Geography, Department of Geography, Virginia Tech (2019-Present)
- Associate Professor of Human Ecology of Water, Virginia Water Resources Research Center, Virginia Tech (2019-Present)
- Assistant Professor of Geography, Department of Geography, Virginia Tech (2013-19)
- Assistant Professor of Human Ecology of Water, Virginia Water Resources Research Center, Virginia Tech (2013-19)
- Adjunct Assistant Professor, Department of Geographical & Sustainability Sciences, University of Iowa (2013)

### **RESEARCH INTERESTS**

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- Access to Water; WASH; HWTS & PoU Treatment; Latrine Adoption
- Hazards & Disasters; Social Vulnerability; Disaster Reconstruction; Water Sector Recovery
- India; South Asia; Development; Gender

### **EDUCATION**

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**Ph.D. Geography, Department of Geographical & Sustainability Sciences, University of Iowa, 08/08-12/12**

- Dissertation: *Churning the water after the wave: water components of housing reconstruction in post-tsunami South India*

- Gilbert F. White Award for best hazards geography dissertation (AAG)
- J. Warren Nystrom Award finalist for best geography dissertation chapter (AAG)
- Appointments: Instructor, Research Assistant, Teaching Assistant
- Extramural Distinctions: Fulbright Fellow, Rotary International Ambassadorial Scholar, Crossing Borders Fellow, CARTHA Fellow

**Department of Civil Engineering and Department of Humanities & Social Sciences, Indian Institute of Technology-Madras, India, 06/08-06/09**

- Ph.D. coursework in Environmental Water Resources Engineering and Sociology on a full scholarship
- Organized forum on disaster reconstruction attended by government officials, nonprofit leaders, academics and students

**Interdisciplinary M.A. in International Studies, University of Iowa, 08/06-05/08**

- Thesis: *A critical assessment of microfinance in theory and practice: lessons from the field in Tamilnadu, India*
- Appointment: Teaching Assistant

**B.A. Social Science Secondary Education, College of Education, University of Northern Iowa, 08/99-12/03**

- Minors: Geography, Economics, and American History

**PROFESSIONAL EXPERIENCE**

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**Analysis of the impacts of a low-cost WASH intervention program in rural Bihar, India, 12/20-Present**

- Provide an external analysis (Sehgal Foundation) on the efficacy of a WASH behavior change intervention implemented in four low income settlements
- Baseline data and a SWOT analysis were used to identify WASH intervention points, and mid- and end-line data will be analyzed using statistical methods and key informant and participant interviews
- A high school senior joined the project as a Research Volunteer

**Best Practices to Support K-12 STEM-Based Remote Learning in Underserved Communities, 05/20-12/20**

- Delivered 600 water science and water sustainability project-based kits to at-risk K-12 students to supplement missed educational opportunities from COVID-19
- Paid undergrad and grad research assistants developed STEM-based activities, curriculum according to Virginia Standards of Learning, and deployed assessments across Virginia

**What's in your Water, Kids? Developing Student Citizen Scientists through the Virginia Household Water Quality Program, 06/19-06/20**

- Organized workshops for 6 high schools (109 students) across rural Virginia

- Participants tested water quality of their private wells and were assessed on comprehension
- Paid undergrad research assistants delivered content according to Virginia Standards of Learning

#### **An Examination of Access to WASH Services among Refugees in the New River Valley, 01/18-01/19**

- Documented and analyzed primary accounts of water, sanitation, and hygiene conditions experienced by refugees and their families as they traveled from their home to asylum
- Mentored and funded undergrad research assistant who presented at a conference

#### **The Introduction of Aquaponics Systems in the Educational Setting in Virginia, 01/18-01/19**

- Implemented aquaponics system and associated curricula in Blacksburg New School
- Mentored and funded undergrad research assistant who presented at a conference

#### **USDA-Research & Extension Experiential Learning for Undergraduates, 05/18-07/18**

- Mentored three students from across USA on project titled *Ecosystem & cultural impacts of the Mountain Valley Pipeline using a mixed methods approach* at Virginia Tech Stream Lab
- Students presented research at a conference

#### **Social, Economic & Cultural Barriers to Latrine Adoption in Coastal India, 12/16-12/17**

- Project deployed household surveys and interviews to assess latrine usage across 14 villages that were provided latrines free-of-cost after a major disaster
- Mentored and funded undergrad research assistant who presented at two conferences and published original article in a major peer reviewed journal

#### **Sustaining Human Societies & the Natural Environment in New Zealand, 12/16-01/17**

- Co-Instructor of field-based study abroad course on endemic species, conservation, and sustainability in New Zealand
- Service learning resulted in planting of 320 endemic trees for the Department of Conservation

#### **Development & Application of a Multi-Scalar Water Security Index in India, 04/15-05/16**

- PI of NASA-Virginia Space Grant Consortium project
- Developed a participatory index using household surveys, water quality tests, and GIS
- Mentored, funded, and presented at conferences with two undergraduate research assistants

#### **NSF-Research Experience for Undergraduates, 05/14-08/14**

- Mentored three students from across USA on project entitled *Valuing the urban hydroscape: perceptions and importance of urban water* at Virginia Tech Stream Lab
- Students presented research at two conferences

#### **Social Media & Related Technologies for Emergency Readiness (SMARTER), 08/12-12/13**

- Co-PI of US Dept. of State grant to popularize disaster preparedness in India
- Delivered 10 disaster preparedness workshops in Kolkata, Chennai, Andaman, and Odisha

**Intern, Centers for Disease Control and Prevention, 02/13-05/13**

- Developed Emergency Operations Plan (EOP) training materials for government hospitals in Republic of Mauritius according to the Incident Command System (ICS)
- Project team comprised of scholars, health professionals, and CDC Emergency Medicine staff

**Fulbright Fellow, Indian Institute of Technology-Madras, India, 08/11-02/12**

- Examined post-disaster reconstruction using surveys, water quality tests, primary documents, and photographic and ethnographic approaches
- Developed a framework for water sector reconstruction and modified Water Poverty Index (WPI)

**Crossing Borders Faculty-Student Travel Seminar, Mexico, 06/11**

- Team of faculty and graduate students explored issues of Mayan sub-nationalism
- Interviewed scholars, met with stakeholders, visited universities and sites of cultural significance

**Research Assistant, City of Des Moines, Iowa, 08/10-06/11**

- Project: *Mapping Hazards and Mitigation Infrastructure for the City of Des Moines, Iowa*
- Submitted a geo-database, spatial data support system, and GIS maps of infrastructure to FEMA as part of Des Moines' disaster preparedness and mitigation plan

**Fulbright-Hays Group Project Abroad Grant, Bangladesh, 07/07-08/07**

- Participated in curriculum development grant awarded to Geographic Alliance of Iowa
- Project: *Natural Hazards and Related Health Issues in Bangladesh: Standards and Issues-Based Geography Curricular Project for Grades K-16*
- Interviewed university, government, and nonprofit officials on disaster preparedness & mitigation

**American International School of Jeddah, Saudi Arabia, 03/04-07/06**

- Full-time teacher at international school with 45+ nationalities represented
- Co-ed softball coach and girls basketball coach with tournament trip to Egypt
- Private English tutor

**American Overseas School of Rome, Italy, 08/03-12/03**

- Fulfilled B.A. Education requirements at international school with 50+ nationalities represented
- Co-Instructor of study abroad trip to Greece

**Fulbright-Hays Group Project Abroad Grant, India, 07/03-08/03**

- Participated in curriculum development awarded to Geographic Alliance of Iowa
- Project: *Creating a Sense of Place through India's Diversity: Geography Curriculum Development*
- Met with scholars and visited sites of social and ecological significance

**Courses Instructed**

- Water, Hazards & Development
- Water, Environment & Society
- Natural Disasters & Humanitarian Aid
- Practicing Sustainability
- Environmental Problems, Population & Development
- Globalization & Geographic Diversity

- Environmental Impact Analysis
- The Contemporary Global System
- Interdisciplinary Issues & Ethics in Water Resources
- Sustaining Human Societies & the Natural Environment in New Zealand (study abroad)
- Introduction to Human Geography
- The Global Economy

## SCHOLARLY PUBLICATIONS

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- **Juran, L.**, R. Oliver, D.C. Read (Forthcoming). Water sector reconstruction for post-disaster housing settlements: a tale of two governance models. In *Resilient water management strategies in urban settings: innovations in decentralized water infrastructure systems*, T. Younos, J. Lee, T. Parece (eds.). Switzerland: Springer Water.
- Geffroy, D.,\* R. Oliver, **L. Juran**, T. Skuzinski (2021). [Projecting the metropolis: Paris 2024 and the \(re\)scaling of metropolitan governance](https://doi.org/10.1016/j.cities.2021.103189). *Cities* 114: doi.org/10.1016/j.cities.2021.103189
- Prince, B.C.,\* **L. Juran**,<sup>¶</sup> V. Sridhar, A. Bukvic, M.C. MacDonald (2021). [A statistical and spatial analysis of water poverty using a modified Water Poverty Index](#). *International Journal of Water Resources Development* 37(2): 339-356.
- Scott, V.,\* **L. Juran**,<sup>¶</sup> E.J. Ling, B. Benham, A. Spiller (2020). [Assessing strontium and vulnerability to strontium in private drinking water systems in Virginia](#). *Water* 12(4): doi:10.3390/w12041053 [15 pp.].
- Aksha, S.K.,\* L.M. Resler, **L. Juran**, L.W. Carstensen (2020). [A geospatial analysis of multi-hazard risk in Dharan, Nepal](#). *Geomatics, Natural Hazards & Risk* 11(1): 88-111.
- Fisher, P.J., D.C. Read, **L. Juran** (2020). [How do women maximize the value of mentorship? Insights from mentees, mentors, and industry professionals](#) *Leadership & Organization Development Journal* 41(2): 165-175.
- Olson, E.,\* R. Oliver, **L. Juran** (2020). [Bidding trepidation: Stockholm's uncertain relationship with the Olympic Games](#). In *Mega events: place-making, regeneration & city-regional development*, G. Evans (ed.), pp. 127-139. London: Routledge.
- **Juran, L.**, E.A. Adams, S. Prajapati<sup>^</sup> (2019). [Purity, pollution, and space: barriers to latrine adoption in post-disaster India](#). *Environmental Management* 64(4): 456-469.
- Aksha, S.K.,\* **L. Juran**, L.M. Resler, Y. Zhang (2019). [An analysis of social vulnerability to natural hazards in Nepal using a modified Social Vulnerability Index](#). *International Journal of Disaster Risk Science* 10(1): 103-116.
- Sherry, J.,\* **L. Juran**,<sup>¶</sup> K.N. Kolivras, L.H. Krometis, E.J. Ling (2019). [Perceptions of water services and innovations to improve water services in Tanzania](#). *Public Works Management & Policy* 24(3): 260-283.
- **Juran, L.** (2018). [Disaster, development, and water: the reconstruction and \(re\)fabrication of hazardous waterscapes in post-tsunami India](#). In *The Asian tsunami and post-disaster aid*, S. Reddy (ed.), pp. 79-99. Singapore: Springer Nature.
- Adams, E.A., **L. Juran**, I. Ajibade (2018). [‘Spaces of exclusion’ in community water governance: a feminist political ecology of gender and participation in Malawi’s urban water user associations](#). *Geoforum* 95: 133-142.
- Aksha, S.K.,\* **L. Juran**, L.M. Resler (2018). [Spatial and temporal analysis of natural hazard mortality in Nepal](#). *Environmental Hazards* 17(2): 163-179.

- MacDonald, M.C., **L. Juran**, S. Srinivasan, J. Jose, S.I. Ali, P. Rajagopalan, K. Hall (2018). [Assessing participant compliance with point-of-use water treatment: an exploratory investigation](#). *Public Works Management & Policy* 23(2): 150-167.
  - Sehgal, V.,\* V. Sridhar, **L. Juran**, J.A. Ogejo (2018). [Integrating climate forecasts with the Soil and Water Assessment Tool \(SWAT\) for high-resolution hydrologic simulations and forecasts in the Southeastern U.S.](#) *Sustainability* 10(9): doi:10.3390/su10093079 [27 pp.].
  - **Juran, L.**, M.C. MacDonald, N.B. Basu, S. Hubbard, R. Rajagopal, P. Rajagopalan, L. Philip (2017). [Development and application of a multi-scalar, participant-driven Water Poverty Index in post-tsunami India](#). *International Journal of Water Resources Development* 33(6): 955-975.
  - **Juran, L.** & K. Lahiri-Dutt (2017). [Waterscapes in transition: changing uses and perceptions of water in middle class homes in Kolkata, India](#). *Water History* 9(4): 433-451.
  - **Juran, L.**, J. Trivedi,\* K.N. Kolivras (2017). [Considering the ‘public’ in public health: popular resistance to the Smallpox Eradication Programme in India](#). *Indian Journal of Medical Ethics* 2(2): 104-111.
  - Bandzuh, J.T.,\* **L. Juran**, K.N. Kolivras, A.B. Wallis (2017). [Local perceptions of measures to control Aedes mosquitoes and mosquito-borne diseases in Puntarenas and San José, Costa Rica](#). *Journal of Latin American Geography* 16(2): 139-162.
  - MacDonald, M.C., **L. Juran**, J. Jose, S. Srinivasan, S.I. Ali, K.J. Aronson, K. Hall (2016). [The impact of rainfall and seasonal variability on the removal of bacteria by a point-of-use drinking water treatment intervention in Chennai, India](#). *International Journal of Environmental Health Research* 26(2): 208-221.
  - **Juran, L.** (2015). [A framework for integrating water projects in disaster reconstruction processes in the international context](#). *Public Works Management & Policy* 20(4): 305-321.
  - **Juran, L.** & J. Trivedi (2015). [Women, gender norms, and natural disasters in Bangladesh](#). *Geographical Review* 105(4): 601-611.
  - **Juran, L.** & M.C. MacDonald (2014). [An assessment of boiling as a method of household water treatment in South India](#). *Journal of Water & Health* 12(4): 791-802.
  - **Juran, L.** (2012). [The gendered nature of disasters: women survivors in post-tsunami Tamil Nadu](#). *Indian Journal of Gender Studies* 19(1): 1-29.
- ^ = Undergraduate student  
 \* = Graduate student  
 † = Corresponding author

## OTHER SCHOLARLY CONTRIBUTIONS

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- **Book Review: Juran, L.** (2012). [Women, gender and disaster: global issues and initiatives](#). *Indian Journal of Gender Studies* 19(2): 341-344.
- **Encyclopedia Entries:**
  - Clark, B.,<sup>^</sup> I. MacNaughton,<sup>^</sup> **L. Juran**<sup>†</sup> (2020). Bhola Cyclone, Bangladesh, 1970. In [Natural hazards & disasters: from avalanches & climate change to water spouts & wildfires](#), B.K. Paul (ed.), pp. 14-18. Broomfield: ABC-CLIO.
  - **Juran, L.** (2020). Indian Ocean tsunami, 2004. In [Natural hazards & disasters: from avalanches & climate change to water spouts & wildfires](#), B.K. Paul (ed.), pp. 197-202. Broomfield: ABC-CLIO.

- Stevens, A., <sup>^</sup> K. Compton, <sup>^</sup> **L. Juran**<sup>φ</sup> (2020). BP Deepwater Horizon oil spill, United States, 2010. In [\*Natural hazards & disasters: from avalanches & climate change to water spouts & wildfires\*](#), B.K. Paul (ed.), pp. 27-32. Broomfield: ABC-CLIO.

<sup>^</sup> = Undergraduate student

<sup>φ</sup> = Corresponding author

#### • White Papers:

- Allen, T., B. Badgley, A. Bukvic, M. Covi, T. Crawford, M. Flint, A. Gordon, **L. Juran**, B. McFarlane, M. Mitchell, C. Neale, M. Rippey, J. Roe, T. Schenk, S. Stafford (2019). [\*Key priorities and university roles to address coastal resilience in Virginia\*](#). Fralin Life Science Institute, Virginia Tech.
- Weiss, R., A. Bukvic, A. Dayer, J. Fraser, S. Karpanty, D. Catlin, **L. Juran**, R. Wynne, J. Gohlke, K. Boyle, J. Irish, R. Leon, C. Zobel, L. Rees, Y. Zhang, T. Schenk, P. Dixit (2017). [\*Stresses and instability in coastal systems: sustaining prosperity, increasing diversity, and achieving resilience\*](#). VTechWorks, Virginia Tech.

#### • Photos:

- Bélanger, P., A. Gauzza, A.C. Baker, C. Milos, P. Ritchot (eds.) (In Press). *Estuarine urbanization: strategies of coastal adaptation, intertidal ecologies, deltaic economies, marine conservation & ocean urbanization*. Photo credit in “Cyclone sheltering: Bay of Bengal coast, Bangladesh.” Chicago: University of Chicago Press.
- Frankland, E. (ed.) (2009). *Global studies: Europe, tenth edition*. Photo credit p. 145 in “Greece (Hellenic Republic).” Dubuque: McGraw-Hill.
- Shinn, S. (2007). [Photo credit p. 6 in “From the editors.”](#) *BizEd Magazine* 6(3).
- Frankland, E. (ed.) (2006). *Global studies: Europe, ninth edition*. Photo credit p. 130 in “Greece (Hellenic Republic).” Dubuque: McGraw-Hill.
- Husain, M. (ed.) (2006). *Global studies: Islam and the Muslim world*. Photo credit p. 121 in “Egypt (Arab Republic of Egypt).” Dubuque: McGraw-Hill.

#### • Poems:

- **Juran, L.** (2018). [Area \(colonial\) studies: academic concerto No. posture](#). *Taj Mahal Review: International Journal Devoted to Arts, Literature, Poetry & Culture* 17(1): 83-84.
- **Juran, L.** (2016). [Chennai: it's like that, only](#). *Taj Mahal Review: International Journal Devoted to Arts, Literature, Poetry & Culture* 15(2): 91-92.

#### • Open Source Lectures:

- **Juran, L.** (2019). [Human-environment genderscapes in South Asia: suffering for water, suffering from disaster](#). VTechWorks, Virginia Tech.
- **Juran, L.** (2015). [Women, gender norms, and natural disasters: examples from South Asia](#). VTechWorks, Virginia Tech.

- **Consultant:** Asia Disaster Preparedness Center (2015). [Handbook for disaster recovery practitioners: disaster recovery toolkit](#). Bangkok: Tsunami Global Lessons Learned Project, ADPC.

- **Acknowledgement:** Article selected as essential reading for meeting United Nations Sustainable Development Goal #6 (ensure availability and sustainable management of water and sanitation for all)

- **Endorsement:** Cover endorsement for *Disaster relief aid: changes & challenges* (B.K. Paul, 2019, Palgrave Macmillan)



- **Video:** [How my fieldwork has impacted local communities in India](#)

## CONFERENCE & INVITED PRESENTATIONS

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- **Juran, L.**, “‘Unnatural’ nature-society relationships: the intersection of gender, the environment, and social systems,” Centre for the Study of Social Exclusion & Inclusive Policy, University of Hyderabad, India (2021)
- Krometis, L., H. Patton,\* E. Bonnett, E. Ling, M. Schreiber, **L. Juran**, D. Scott, L. Wind,\* T. Torrisi,^ M. Hackley,^ “Bridging the gap: creating community connections to develop and deliver effective remote K-12 learning opportunities in water and agriculture. *Annual International Meeting of the American Society of Agricultural & Biological Engineers* (2021)
- Rodriguez, V.\* & **L. Juran**, “A critical assessment of gender mainstreaming in Central American climate change policies: the case of Panama, Belize, and Guatemala,” *Women & Gender in Development Conference 2021 – Out of the Theory & Into the Field: A Dialogue on Gendered Approaches to Inclusive Rural Development* (2021)
- **Juran, L.**, “Top-down vs. collaborative planning in the water sector: evidence from the field,” School of Public & International Affairs, Virginia Tech (2021)
- **Juran, L.**, “‘Success’ and ‘failure’ in water sector reconstruction: through whose eyes matters,” Dept. of Biological Systems Engineering, Virginia Tech (2021)
- **L. Juran**, “Geographies of post-disaster reconstruction: failure, success, and the trappings of build back better,” *SEDAAG Annual Conference* (2020)
- Kern, J.,\* L. Resler, **L. Juran**, “An approach for basin scale analysis of changing paraglacial water budgets,” *SEDAAG Annual Conference* (2020)
- Aksha, S.,\* L. Resler, **L. Juran**, L.W. Carstensen, “Multi-hazard risk assessment in Dharan, Nepal using geospatial techniques,” *AAG Annual Meeting* (2019)
- **Juran, L.**, “Human-environment genderscapes in South Asia: suffering for water, suffering from disaster,” *Women & Gender in Development Conference: Out of the Theory & into the Field*, Virginia Tech (2019)
- **Juran, L.**, “Humanitarian aid in the water, sanitation, and hygiene sector: what works and what doesn’t,” Dept. of Biological Systems Engineering, Virginia Tech (2019)
- **Juran, L.**, “Disaster, reconstruction, and urban planning after the 2004 tsunami: did we actually ‘build back better’?,” School of Public & International Affairs, Virginia Tech (2019)
- **Juran, L.**, “Reconstruction ‘success’ and ‘failure’: the case of post-disaster South India,” Dept. of Biological Systems Engineering, Virginia Tech (2019)
- **Juran, L.**, “An introduction to the geography, culture, and political economy of the Middle East,” Pamplin College of Business, Virginia Tech (2019)
- Habeebah, S.^ & **L. Juran**, “An analysis of access to water, sanitation, and hygiene services among refugees in the New River Valley, Virginia,” *SEDAAG Annual Conference*, East Tennessee State University (2018)
- Scott, V.\* & **L. Juran**, E. Ling, “Assessing strontium contamination in private drinking water supplies in Virginia,” *SEDAAG Annual Conference*, East Tennessee State University (2018)
- Maione, A.^ & **L. Juran**, “The introduction of aquaponics in the educational setting,” *Annual Conference of the National Aquaponics Association: Putting Up Shoots*, National Aquaponics Association (2018)



- **Juran, L.**, “Top-down vs. bottom-up water sector planning: evidence and implications from India,” *Advancing the Human Condition Symposium*, Virginia Tech (2018)
- **Juran, L.**, “The blue revolution and aquaponics,” Industrial Design Program, School of Architecture + Design, Virginia Tech (2018)
- Scott, V.\* & **L. Juran**, E. Ling, “Strontium in private well drinking water in Virginia,” *WaterSmart Innovations Conference*, Universities Council on Water Resources (2018)
- Prince, B.\* & **L. Juran**, “Water access in coastal India: measurements and links among water poverty, socioeconomic status, and space,” *Office of GIS & Remote Sensing Research Symposium*, Virginia Tech (2018)
- Aksha, S.,\* L. Resler, B. Carstensen, **L. Juran**, “Application of general linear models for landslide susceptibility mapping using GIS and remote sensing in Dharan, Nepal,” *Office of GIS & Remote Sensing Research Symposium*, Virginia Tech (2018)
- **Juran, L.**, “The geography of failure and hope in post-disaster reconstruction: planning problems and planning progress,” *AAG Annual Meeting* (2018)
- Prince, B.\* & **L. Juran**, “An analysis of human-environment waterscapes using a modified Water Poverty Index,” *AAG Annual Meeting* (2018)
- Aksha, S.,\* **L. Juran**, L. Resler, “How resilient are Himalayan communities? An assessment of disaster resilience in Nepal,” *AAG Annual Meeting* (2018)
- **Juran, L.**, “Ethical dimensions of humanitarian aid for infrastructure and land use development,” Real Estate Program, Virginia Tech (2017)
- Bandzuh, J.,\* **L. Juran**, K. Kolivras, A. Wallis, “Local perceptions of measures to control *Aedes* mosquitoes and mosquito-borne diseases in Puntarenas and San José, Costa Rica,” *Annual Meeting & Exposition of the American Public Health Association* (2017)
- Olson, E.,\* R. Oliver, **L. Juran**, K. Kolivras, “Rescinding a bid: Stockholm’s uncertain relationship with the Olympic Games,” *SEDAAG Annual Conference*, University of Southern Mississippi (2017)
- Prajapati, S.^ & **L. Juran**, “Of space and purity, cost and convenience: barriers to latrine adoption in coastal South India,” *Water Research: Building Knowledge & Innovative Solutions*, Mid-Atlantic Regional Water Centers (2017)
- Prince, B.\* & **L. Juran**, “Construction and application of a contextualized, multiscale Water Poverty Index in coastal India,” *Water Research: Building Knowledge & Innovative Solutions*, Mid-Atlantic Regional Water Centers (2017)
- Prajapati, S.^ & **L. Juran**, “Social, economic, and cultural factors of latrine adoption in coastal South India,” *AAG Annual Meeting* (2017)
- Aksha, S.,\* **L. Juran**, L. Resler, “Assessment of social vulnerability to natural hazards in Nepal,” *AAG Annual Meeting* (2017)
- **Juran, L.**, “Artificial hazardscapes: the social construction of gendered disaster vulnerability,” Office of International Research, Education & Development, Virginia Tech (2017)
- Sherry, J.\* & **L. Juran**, “Perceptions of water services and the introduction of technologies to improve water services in Dar es Salaam, Tanzania,” *WaterSmart Innovations Conference*, Universities Council on Water Resources (2016)
- **Juran, L.** & B. Prince,^ “My energy first goes to water, then I worry about the rest of my day?: water security among households with access to improved sources in India,” *AAG Annual Meeting* (2016)
- Aksha, S.,\* **L. Juran**, L. Resler, “Spatial patterns of natural disaster mortality in Nepal,” *AAG Annual Meeting* (2016)

- **Juran, L.**, “An introduction to social science and mixed methods approaches to water resources research,” *American Water Resources Association Student Chapter*, Virginia Tech (2016)
- Bandzuh, J.,\* K. Kolivras, **L. Juran**, “Actions to prevent *Aedes* mosquitoes and mosquito-borne diseases in Costa Rica,” *AAG Annual Meeting* (2016)
- Bandzuh, J.,\* **L. Juran**, K. Kolivras, “Investigating actions versus perceptions of *Aedes* mosquito control in Costa Rica,” *UTK Geography Symposium*, University of Tennessee-Knoxville (2016)
- Bandzuh, J.,\* K. Kolivras, **L. Juran**, “Attitudes and perceptions of mosquito control and disease prevention in Costa Rica,” *Graduate Student Assembly Research Symposium*, Virginia Tech (2016)
- Blumenthal, K.,\* M. Lang, J. Galbraith, **L. Juran**, J. Campbell, “Predicting soil variability in soil organic carbon among Delmarva bays,” *CSES Graduate Student Research Symposium*, Virginia Tech (2016)
- **Juran, L.**, “Improving the ‘improved sources’ metric: the construction of a modified Water Poverty Index in coastal South India,” *Water & Health Conference 2015: Where Science Meets Policy*, University of North Carolina-Chapel Hill (2015)
- Bandzuh, J.,\* **L. Juran**, K. Kolivras, “Policies, programs, and measures in Costa Rica to combat diseases transmitted by the *Aedes* mosquito,” *Annual Meeting of the American Society of Tropical Medicine & Hygiene* (2015)
- Lumpkin, M.^ & **L. Juran**, “Measuring waterscape complexities at several scales: the implementation of a Water Poverty Index in post-disaster India,” *SEDAAG Annual Conference*, University of West Florida (2015)
- Ren, J.,\* J. Campbell, Y. Shao, **L. Juran**, “Predicting sediment and nutrient loads from an agricultural watershed in Iowa,” *Water Resources Conference of the Virginias: Water, Energy, and Agriculture*, West Virginia Water Research Institute & Virginia Water Resources Research Center (2015)
- **Juran, L.**, “Development and application of a contextualized, multiscale Water Poverty Index in post-tsunami South India,” *AAG Annual Meeting* (2015)
- **Juran, L.**, “Women, gender norms, and natural disasters: examples from South Asia,” *Women & Gender in International Development Series*, Virginia Tech (2015)
- Boza, K.,^ N. Carter,^ E. Davis,^ **L. Juran**, M. Steele, “Valuing the urban hydroscape: perceptions and importance of urban water,” *Annual Undergraduate Research and Creative Achievement Fair*, Manhattanville College (2015)
- **Juran, L.**, “Water and disasters: a conceptual model for incorporating the water sector in reconstruction and recovery processes,” *Annual Natural Hazards Research & Applications Workshop*, University of Colorado-Boulder (2014)
- **Juran, L.**, “Water infrastructure challenges in the Mid-Atlantic region: perspectives from Virginia,” *The Future of Mid-Atlantic Infrastructure: Challenges & Solutions*, Mid-Atlantic Regional Water Centers (2014)
- Schoenholtz, S., **L. Juran**, K. McGuire, A. Raflo, J. Walker, “Fifty years of water research, education, and outreach at the Virginia Water Resources Research Center,” *AWRA Annual Conference* (2014)
- **Juran, L.**, “Water, disasters, & reconstruction: a conceptual human-environment framework for sustainable water sector reconstruction,” *SEDAAG Annual Conference*, University of Georgia (2014)
- **Juran, L.** & M.C. MacDonald, “Point-of-use water treatment among affected populations in post-tsunami South India,” Dept. of Geography and Gamma Theta Upsilon, Kansas State University (2014)

- **Juran, L.**, “A framework for integrating water resources in disaster reconstruction processes,” *AAG Annual Meeting* (2014)
- **Juran, L.**, “A critique of boiling as a method of household water treatment in South India: efficacy, barriers, caveats,” Environmental Water Resources Engineering colloquium, Virginia Tech (2014), and *Iowa Global Health Symposium*, University of Iowa (2012)
- **Juran, L.**, “Water, disaster and disease: recovery and health after the 2004 Asian tsunami,” Dept. of Health Sciences, James Madison University (2013)
- **Juran, L.**, “Water sector recovery after the 2004 Indian Ocean tsunami in Southern India,” Dept. of Integrated Science & Technology, James Madison University (2013)
- **Juran, L.**, “Humanitarian aid for reconstruction processes: theoretical and pragmatic considerations,” *Natural Disasters and Humanitarian Aid*, University of Iowa (2012)
- **Juran, L.**, “Reconceptualizing the intersection of water and disaster: a framework for analyzing water components of post-disaster housing projects,” *Conference on Post-Disaster Recovery*, Syracuse University (2011)
- **Juran, L.**, “Critiques of microcredit as a tool for poverty alleviation,” *Mitigating Rural Poverty in India*, India Development Coalition of America, Indiana State University (2010)
- **Juran, L.**, “Permanent housing reconstruction in post-tsunami South India: a case of ‘build back better’ or *tabula rasa* spoiled?,” *Forum on Disaster Reconstruction*, IIT-Madras, India (2009)
- **Juran, L.**, “A social science understanding of water quality and quantity: examples from South Asia,” Dept. of Environmental Water Resources and Engineering, IIT-Madras, India (2009)
- **Juran, L.**, “Post-disaster processes in India and Bangladesh,” *Voices of the Tri-States* radio program (2009)
- **Juran, L.**, “Community development finance: the sustainability and scalability of microcredit institutions,” Dept. of Urban and Regional Planning, University of Iowa (2009)
- **Juran, L.**, “Coping with natural disasters in Bangladesh,” *Kohn Colloquium*, University of Iowa, and *International Mondays*, Iowa City Public Library (2008)
- **Juran, L.**, “A critical examination of microcredit in theory and practice,” *Surviving the Monsoon: Natural Disasters in Bangladesh*, Geographic Alliance of Iowa, University of Northern Iowa (2008)
- **Juran, L.**, “Human rights aspects of microfinance: towards the Millennium Development Goals,” *Leadership Summit on Microfinance*, Gandhigram Rural Institute, India (2007)
- **Juran, L.**, “The 2004 Indian Ocean tsunami: what happened and why?,” *Dubuque Rotary Club* and *Balltown Lion’s Club* (2006)

^ = Undergraduate student

\* = Graduate student

## GRANTS & AWARDS

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- COVID-19 Rapid Response Fund, Office of the Vice President for Research & Innovation, Virginia Tech - \$34,192 (Co-PI, 2020)
- COVID-19 Rapid Response Seed Grant, Institute for Creativity, Arts & Technology, Virginia Tech - \$10,000 (2020)
- New Program Development Grant, Global Education Office, Virginia Tech - \$2,500 (2019-20)
- Freshwater Systems Seed Grant, Fralin Life Sciences Institute, Virginia Tech - \$7,200 (Co-PI, 2018-19) and \$9,300 (2019-20)

- Sustainable Water Undergraduate Research Fellowship, Virginia Tech - \$3,557 (2016-17), \$2,710 (2018-19), and \$3,000 (2018-19)
- Manodharma India Faculty Travel Grant - \$5,900 (2018)
- New Investigator Program, NASA-Virginia Space Grant Consortium - \$10,000 (2015-16)
- Curriculum Globalization Grant, Virginia Tech - \$5,000 (2015)
- Finalist, J. Warren Nystrom Dissertation Award, American Association of Geographers (2014)
- 4VA Mini-Grant, Commonwealth of Virginia - \$5,000 (Co-PI, 2013-14)
- CARTHA and Johnson County Community Foundation - \$3,000 (2013-2014)
- Faculty Mentoring Grant, Virginia Tech - \$1,500 (2013)
- Gilbert F. White Dissertation Award, American Association of Geographers - \$250 (2013)
- Alumni Engagement Innovation Fund, US Dept. of State - \$25,000 (Co-PI, 2012-13)
- Fulbright-Nehru Fellowship - \$18,000 (2011-12)
- T. Anne Cleary International Dissertation Research Fellowship - \$3,000 (2011-12)
- Crossing Borders Fellowship - \$5,000 (2008-12)
- Graduate College Summer Fellowship - \$3,000 (2011)
- Executive Council for Graduate and Professional Students Research Grant - \$750 (2011)
- Graduate Student Senate Travel Award - \$300 (2011)
- Center for Global & Regional Environmental Research (CGRER) Dissertation Research Grant - \$2,344 (2011), \$1,950 (2010), and \$2,000 (2008)
- CARTHA Fellowship - \$500 (2007)
- Joan Lara Scholarship for International Research - \$500 (2011) and \$500 (2006)
- Rotary International Ambassadorial Scholarship - \$25,000 (2008-09)
- Graduate Incentive Fellowship - \$1,150 (2008)
- Fulbright-Hays Group Project Abroad Grant to Bangladesh - \$64,000 (Participant, 2007)
- Stanley Foundation Graduate Award for International Research - \$2,000 (2007)
- CGRER Graduate Student Travel Grant - \$750 (2007)
- International Programs Graduate Student Travel Grant - \$500 (2007)
- University of Iowa Student Government (UISG) Research Grant - \$500 (2007)
- International Programs M.A. Thesis Research Grant - \$500 (2006)
- UISG Scholarly Presentation Grant - \$200 (2006)
- Fulbright-Hays Group Project Abroad Grant to India - \$58,000 (Participant, 2003)

## MENTORING

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### Current Mentoring:

- Sharif Islam, Ph.D. Committee, Geospatial & Environmental Analysis, Virginia Tech (2020-Present)
  - Project: *Analysis of spatio-temporal patterns interlinking coastal erosion, land use land cover change (LULCC), and population displacement in the lower Meghna estuary region of Bangladesh*
- Karla Boza Carbonell, M.S. Chair, Geography, Virginia Tech (2019-Present)
  - Thesis: *Geographic barriers & facilitators to access coffee markets among farmers in the Bálsamo Quezaltepec mountain range of El Salvador*

- Emily Wilcox, M.S. Chair, Geography, Virginia Tech (2021-Present)
  - Thesis: *Analysis of the impacts of a low-cost WASH behavior change intervention program in rural Bihar, India*
- Sriya Sridhar, High School Research Volunteer, Virginia Tech (2021-Present)
  - Project: *Analysis of the impacts of a low-cost WASH behavior change intervention program in rural Bihar, India*

### **Completed Mentoring:**

#### Doctoral

- Sanam Aksha, Ph.D. Co-Chair, Geospatial & Environmental Analysis, Virginia Tech (2018)
  - Dissertation: *Modeling multi-hazard risk and vulnerability in the Nepal Himalaya*

#### Master's

- Jen Kern, M.S. Co-Chair, Geography, Virginia Tech (2021)
  - Thesis: *Modelling hydrologic system change in a paraglacial catchment in the Northern Rocky Mountains*
- Veronica Scott, M.S. Chair, Geography, Virginia Tech (2019)
  - Thesis: *Strontium in drinking water: assessing strontium as a drinking water contaminate in Virginia private wells*
- Damien Geffroy, M.S. Committee, Geography, Virginia Tech (2019)
  - Thesis: *A city of projects: Grand Paris, the 2024 summer Olympics, and the jurisdictional negotiation of contemporary Paris*
- Breeanna Prince, M.S. Chair, Geography, Virginia Tech (2018)
  - Thesis: *Access to water: advancement of multidimensional, multiscalar, and participatory methods of measurement in the Global South*
- Kaitlyn Spangler, M.S. Committee, Geography, Virginia Tech (2018)
  - Thesis: *"When he comes home, then he can decide": male out-migration, the feminization of agriculture, and integrated pest management in the Nepali mid-hills*
- Erik Olson, M.S. Committee, Geography, Virginia Tech (2018)
  - Thesis: *Rescinding a bid: Stockholm's uncertain relationship with the Olympic Games*
- Julia Sherry, M.S. Chair, Geography, Virginia Tech (2017)
  - Thesis: *Perceptions of water services and innovations to improve water services in Tanzania*
- Vinit Sehgal, M.S. Committee, Biological Systems Engineering, Virginia Tech (2017)
  - Thesis: *Near real-time seasonal drought forecasting and retrospective drought analysis using simulated multi-layer soil moisture from hydrological models at sub-watershed scales*
- John T. Bandzuh, M.S. Co-Chair, Geography, Virginia Tech (2016)
  - Thesis: *Perceptions of measures to control Aedes mosquitoes and mosquito-borne diseases in Costa Rica*
- Kinsey Blumenthal, M.S. Committee, Geography, Virginia Tech (2016)
  - Thesis: *Predicting spatial variability in soil organic carbon among Delmarva bays*
- Ashley Lewis, M.S. Committee, Geography, Virginia Tech (2015)
  - Thesis: *Human-wildlife conflict and mobile phone use among Maasai pastoralists near Tarangire National Park, Northern Tanzania*
- Haitao Wang, M.S. Committee, Geography, Virginia Tech (2014)

- Thesis: *Monitoring vegetation dynamics in Zhongwei, an arid city of Northwest China*

### Undergraduate

- Molly Hackley and Thea Torrisi, Co-Mentor of Funded Undergraduate Research Assistants, Virginia Tech (2020)
  - Project: *Bridging the gap: creating community connections to develop & deliver effective K-12 STEM remote learning opportunities in rural Virginia*
- Alivia Colón, Undergraduate Research Project, Virginia Tech (2020)
  - Project: *Communicating drinking water quality risk to households with private water supply systems*
- Wynnne Avent, Alivia Colón, and Isabelle Lagen, Co-Mentor of Funded Undergraduate Research Assistants, Virginia Tech (2019-20)
  - Project: *What's in your water kids? Developing student citizen scientists through the Virginia Household Water Quality Program*
- Saalehah Habeebah, Funded Undergraduate Research Assistant, Virginia Tech (2019)
  - Project: *An analysis of access to water, sanitation, and hygiene services among refugees in the New River Valley*
- Alexa Maione, Funded Undergraduate Research Assistant, Virginia Tech (2019)
  - Project: *The introduction of aquaponics systems in the educational setting in Montgomery County, Virginia*
- Sarah Abrahams (Auburn University), Michael Galeski (Creighton University), and Elise Malvicini (Mount Holyoke College), Co-Mentor for funded USDA-REEU project, Virginia Tech Stream Lab (2018)
  - Project: *Public perceptions of the Mountain Valley Pipeline: a content analysis of media commentary*
- Shaifali Prajapati, Funded Undergraduate Research Assistant, Virginia Tech (2017)
  - Project: *Social, economic, and cultural factors of latrine adoption in coastal South India*
- Jackie Scott, Guided Independent Study, Virginia Tech (2017)
  - Project: *Community resilience to natural disasters in the American context*
- Breeanna Prince, Funded Undergraduate Research Assistant (NASA), Virginia Tech (2016)
  - Project: *Development and application of a multiscalar Water Security Index*
- Adrian Santiago Tate, Co-Mentor for funded Wayne & Claire Horton Fellowship project, Virginia Tech (2015)
  - Project: *Post-tsunami hazard mitigation in Sri Lanka, Indonesia, and Hawaii*
- William Cross, Guided Independent Study, Virginia Tech (2015)
  - Project: *A comparison of sustainability activities in Iceland and the United States*
- Julia Sherry, Undergraduate Honors Thesis Committee, Virginia Tech (2015)
  - Thesis: *The sustainability of water, sanitation, and hygiene interventions by humanitarian nonprofit organizations*
- Malaysia Lumpkin, Funded Undergraduate Research Assistant (NASA), Virginia Tech (2015)
  - Project: *Development and application of a multiscalar Water Security Index*
- Karla Boza (Manhattanville College), Nicole Carter (Oklahoma State University), and Erica Davis (University of Tennessee, Knoxville), Co-Mentor for funded NSF-REU project, Virginia Tech Stream Lab (2014)

- Project: *Valuing the urban hydroscape: perceptions and importance of urban water*

## PROFESSIONAL & INSTITUTIONAL SERVICE

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- Manuscript and Book Reviews:

<i>Water</i> (6)	<i>Geographical Review</i> (3)
<i>Utilities Policy</i> (2)	Routledge Press (2 books, 1 monograph)
<i>GeoHealth</i> (2)	<i>International Journal of Disaster Risk Science</i> (2)
<i>Water History</i> (2)	<i>Advances in Meteorology</i>
<i>American Journal of Tropical Medicine &amp; Hygiene</i>	<i>Annals of the American Association of Geographers</i>
<i>Applied Geography</i>	<i>Asian Journal of Social Science</i>
<i>Indian Journal of Gender Studies</i>	<i>Indian Journal of Medical Ethics</i>
<i>International Journal of Disaster Risk Reduction</i>	<i>Journal of the American Water Resources Association</i>
<i>Journal of Water &amp; Climate Change</i>	<i>Natural Hazards</i>
<i>Urban Water Journal</i>	

- Reviewer, Water Resources Research National Competitive Grant Program (104g), USGS/NIWR (2021)
- Reviewer, Partnership for Enhanced Engagement in Research (PEER), USAID and National Academies of Science, Engineering, and Medicine (2021)
- Audit Committee, Southeastern Division of the American Association of Geographers (2020-Present)
- Director of Graduate Studies, Dept. of Geography, Virginia Tech (2019-Present)
- Faculty Supervisor, Geography Student Alliance, Virginia Tech (2019-Present)
- Oversight Committee, Watershed Management Minor, Virginia Tech (2015-Present)
- Internship Selection Committee, Virginia Water Resources Research Center (2015-Present)
- Faculty Supervisor, Oxfam America at Virginia Tech (2014-Present)
- Departmental Representative, Universities Council on Water Resources (2014-Present)
- Selection Committee, William R. Walker Graduate Research Fellow Award, Virginia Water Resources Research Center (2014-Present)
- Reviewer, Student Research Grants, Virginia Water Resources Research Center (2014-Present)
- Promotion and Tenure Committee, College of Natural Resources & Environment, Virginia Tech (2021-22)
- Diversity, Equity & Inclusion Committee, Dept. of Geography, Virginia Tech (2021-22)
- Diversity & Inclusion Committee, College of Natural Resources & Environment, Virginia Tech (2018-2021)
- Judge, Mr. and Mrs. Agriculture Pageant, Alpha Zeta Agricultural Honors Society, Virginia Tech (2018, 2021)
- Selection Committee, Outstanding Dissertation in Water Policy & Socioeconomics, Universities Council on Water Resources (2020)
- Moderator, “Hazards, vulnerability, and resilience,” *SEDAAG Annual Conference* (2020)
- Judge, Virginia Waters Photo Contest (2020)
- Promotion and Tenure Committee, College of Natural Resources & Environment, Virginia Tech (2019-20)
- Search Committee, Director of Inclusion & Diversity, College of Natural Resources & Environment, Virginia Tech (2019-20)



- Treasurer, Southeastern Division of the American Association of Geographers (2017-20)
- Steering Committee, Virginia Geographic Alliance (2013-2020)
- Moderator, “Water, sanitation, hygiene (WASH), and agricultural research and transformation,” *Innovative & Transformational Ideas to Improve the Development & Policy Response to Forced Displacement*, US-Jordan University Cooperation Network (2019)
- Reviewer, Grant proposals to US-Jordan University Cooperation Network (2019)
- Faculty Development Committee, Dept. of Geography, Virginia Tech (2018-19)
- Personnel Committee, Dept. of Geography, Virginia Tech (2018-19)
- Faculty Representative, Energy & Sustainability Committee, Virginia Tech (2017-19)
- Reviewer, Pre-proposals for Water Resources Research National Competitive Grant Program (104g), USGS/NIWR (2017-19)
- Moderator and Judge, National Geographic Virginia State Geography Bee (2014-15, 2017-19)
- Abstract Reviewer, *UCOWR-NIWR Annual Water Resources Conference* (2018)
- Judge, ESRI/VGA Map Competition (2018)
- Marshal, College of Natural Resources & Environment commencement (2017, 2018)
- Equipment and Facilities Committee, Dept. of Geography, Virginia Tech (2016-18)
- Graduate Committee, Dept. of Geography, Virginia Tech (2015-18)
- Conference Co-Organizer, *Water Research: Generating Knowledge & Innovative Solutions* (2017)
- Moderator, “Using models for watershed management” and “Poster session,” *Water Research: Generating Knowledge & Innovative Solutions* (2017)
- Reviewer, Jacques May Thesis Prize, Health & Medical Geography specialty group of AAG (2017)
- Reviewer, Curriculum Globalization Grants, Virginia Tech (2017)
- Co-Host and Planning Committee, South Asia Symposium, Virginia Tech (2017)
- Reviewer, NSF Geography and Spatial Sciences Program (2016)
- Faculty Design Team for Global Systems Science Destination Area, Virginia Tech (2016)
- Volunteer, Graduate College commencement, Virginia Tech (2016)
- Conference Co-Organizer, *Water Resources Conference of the Virginias: Water, Energy, Agriculture* (2015)
- Volunteer, undergraduate commencement, Virginia Tech (2015)
- Undergraduate Committee, Dept. of Geography, Virginia Tech (2013-15)
- Conference Co-Organizer, *The Future of Mid-Atlantic Infrastructure: Challenges & Solutions* (2014)
- Session Co-Organizer: “Author Discussion - *Dancing with the river: people and life on the chars of South Asia*,” “Water Resources and Sustainable Development I,” and “Water Resources and Sustainable Development II,” *AAG Annual Meeting* (2014)
- Moderator, “Planning and Response to Climate Change and Flooding,” *The Future of Mid-Atlantic Infrastructure: Challenges & Solutions* (2014)
- Moderator, “Author Discussion - *Dancing with the river: people and life on the chars of South Asia*,” *AAG Annual Meeting* (2014)
- Reviewer, Junior Faculty Collaborative Grants, Institute for Critical Technology & Applied Science (2014)
- Judge (poster session), *Annual Interdisciplinary Research Day*, Virginia Tech (2014)
- Reviewer, Student Paper Competition, AAG Water Resources Specialty Group (2013)
- Moderator, *Global Health Symposium*, Washington & Lee University (2013)
- Moderator and Judge, National Geographic Iowa State Geography Bee (2007-08, 2010-13)
- Established Rex Honey Memorial Lecture Series, Dept. of Geography, University of Iowa (2011)

- Grad student faculty meeting representative, Dept. of Geography, University of Iowa (2010-11)
- Faculty Search Committee, Dept. of Geography, University of Iowa (2010)
- Conference Organizer, *Forum on Disaster Reconstruction*, IIT-Madras, India (2009)

## COMMUNITY ENGAGEMENT

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- Board of Directors, CARTHA (2019-Present)
- Board of Directors, Sustainable Blacksburg, Town of Blacksburg (2018-2020)
- Organized 5 private drinking water quality workshops for rural high schools in Virginia (2019)
- Coordinated 16 service learning projects with Catawba Sustainability Center, Feeding America, Environmental Scavengers, Fajr Beirut, et al. (2019)
- Implemented aquaponics system with curriculum design and delivery, Blacksburg New School (2018-19)
- Organized annual food drive for “Plenty!” food pantry (2015-19)
- Organized official visit and keynote presentation at Virginia Tech by Brian J. Moran, Virginia Secretary of Public Safety and Homeland Security (2018)
- Coordinated 13 service learning projects with Head Start, YMCA/YWCA, Micah’s Backpack, Humane Society, Virginia Department of Health, et al. (2017)
- Service learning component of study abroad course resulted in planting of 320 endemic trees for Department of Conservation in New Zealand (2016)
- Presented to doctors and nurses of Meenakshi Hospital-Thanjavur on water & sanitation in Tamil Nadu, India (2016)
- Volunteer, Smile Train and Pediatrics ward, Meenakshi Hospital-Thanjavur, India (2016)
- Conducted 24 water quality & post-point contamination workshops, India (2012-16)
- Organized three cleft lip & palate screening camps for Smile Train resulting in 31 free corrective surgeries, India (2012-16)
- Coordinated sustainability service learning projects with Virginia Department of Health, Harding Elementary, and College of Natural Resources & Environment at Virginia Tech (2015)
- Organized 10 disaster preparedness workshops in Kolkata, Chennai, Andaman, and Odisha, India (2012-13)
- Volunteer, Relay for Life, American Cancer Society (2012)
- Fundraised monies for 127 goats, Mahasemam Women’s Self-Help Cooperative, India (2007-12)
- Successfully appealed City of Iowa City to recognize United Nations International Day for Disaster Reduction (2010)
- Conducted social programs impact study, Mahasemam Women’s Self-Help Cooperative, India (2009)
- Participated in clean water, tree planting, and library projects as Rotary International Ambassadorial Scholar, India (2008-09)
- Delivered 40+ public presentations as Rotary International Ambassadorial Scholar in India, Sri Lanka, and USA (2008-09)
- Volunteer, Mother Teresa and Smile Train wards, Meenakshi Mission Hospital and Research Centre-Madurai, India (2007)
- Conducted survey in six mobile home parks in Iowa City, Habitat for Humanity (2006)
- Tsunami relief volunteer, Galle, Sri Lanka, Red Cross (2005)

## PROFESSIONAL & INSTRUCTIONAL DEVELOPMENT

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- *Tech Trends in Higher Education: Choosing Accessible Learning Materials*, Virginia Tech (2021)
- *Cyber Security*, Virginia Tech (2021)
- *Compliance Workshop: Policy 1025, Title IX & Violence Against Women Act (VAWA)*, EVERFI (2021)
- *Employee Safety & Disaster Awareness*, State of Virginia (2020)
- *Civilian Response for Active Shooter Events*, State of Virginia (2020)
- *Diversity: Inclusion in the Modern Workplace*, EVERFI (2020)
- *Campus Security Authority (CSA)*, Virginia Tech (2020)
- *Environmental Health & Safety: Coronavirus Awareness*, Virginia Tech (2020)
- *The Role of Supervisors in Advancing an Inclusive Workplace*, Virginia Tech (2020)
- *Practices for Reducing Implicit Bias in Workplace Processes*, Virginia Tech (2020)
- *Having Difficult Conversations*, Virginia Tech (2020)
- *Celebrating Employee Differences*, Virginia Tech (2020)
- *Federal Clergy Act Training* (2020)
- *FERPA Training* (2020)
- *Grief, Loss, and Resilience*, Virginia Dept. of Social Services (2019)
- *Protecting and Nurturing Trauma*, Virginia Dept. of Social Services (2019)
- *Addressing Hate on Campus: Strategies for Responding to the Increase in Bias and Hate Incidents on College Campuses*, Anti-Defamation League and INSIGHT Into Diversity (2019)
- *DiversityEdu – Faculty Search* (2019)
- *Search Committee Charge Workshop*, Virginia Tech (2019)
- *Conflict of Interest and Commitment Training*, CITI Program (2015, 2017, 2019)
- *Exploring Built in Accessibility*, Virginia Tech (2017)
- *Securing the Human: Security Awareness Training*, Virginia Tech (2017)
- *Altmetrics*, Virginia Tech (2017)
- *Pathways to Sustainability Workshop*, Virginia Tech (2017)
- *Proposal Development Institute*, Virginia Tech (2016-17)
- *Open Access Journals: Choosing a High Quality Publication Venue*, Virginia Tech (2016)
- *Accessibility Made Conscious: Overview of Basic Accessibility Concepts*, Virginia Tech (2016)
- *Accessible Documents by Design*, Virginia Tech (2016)
- *Accessibility: Speech Recognition for Mac*, Virginia Tech (2016)
- *Accessibility in the Blended Classroom*, Virginia Tech (2016)
- *Flipping the Classroom*, Virginia Tech (2015)
- *SafeZone*, Virginia Tech (2014)
- *Transgender 101*, Virginia Tech (2014)

## CERTIFICATIONS

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- *Creating an Inclusive Workplace*, Virginia Tech

- Accessibility Certificate, Virginia Tech
- Human Subjects Protections, CITI Program
- OSHA Bloodborne Pathogens
- Mandatory Child Abuse Reporter (CWS5962), Virginia Department of Social Services
- Teaching Licensure, State of Iowa
- Advanced Placement Economics

## MEMBERSHIPS & ACTIVITIES

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- Radical Interpretations of Disasters and Radical Solutions (Radix) (2018-Present)
- Social Science Extreme Events Research (2018-Present)
- Chesapeake Research Consortium (2017-Present)
- Scholars of South Asia, Virginia Tech (2017-Present)
- Coastal@VT (2017-Present)
- Gender and Water Alliance (GWA) (2016-Present)
- Gender CC - Women for Climate Justice (2016-Present)
- Southeast Division of the American Association of Geographers (SEDAAG) (2014-Present)
- Interdisciplinary Coastal Hazards Research Team, Virginia Tech (2014-Present)
- Southern Region Integrated Water Resources Committee (SERA43) (2014-Present)
- Virginia Geographic Alliance (VGA) (2013-Present)
- Virginia Water Monitoring Council (VWMC) (2013-Present)
- International Alumni Exchange Network, US Department of State (2011-Present)
- International Network on Household Water Treatment & Safe Storage (2010-Present)
- American Association of Geographers (AAG) (2009-Present)
- Gender and Disaster Network (GDN) (2008-Present)
- Global Ambassador for CARTHA (2012-19)
- American Geographical Society (AGS) (2015-16)
- Upper Roanoke River Roundtable (2013-14)
- Geographic Alliance of Iowa (GAI) (2003-13)
- Autonomous Language Learning Network (ALLNet) for Tamil (2010-11)

## HONORS

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- Ph.D. *summa cum laude*, M.A. *summa cum laude*, and B.A. *magna cum laude*
- Dean's list every semester of higher education
- Golden Key International Honour Society
- Phi Eta Sigma National Honor Society
- National Society of Collegiate Scholars
- National Scholars Honor Society
- Omicron Delta Epsilon International Honor Society in Economics
- Kappa Delta Pi International Honor Society in Education

## CONFERENCE ATTENDANCE

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- *Dimensions of Political Ecology Conference*, University of Kentucky-Lexington (2021)
- *Water & Health Conference 2020: Science, Policy & Practice*, UNC-Chapel Hill (2020)
- *SEDAAG Annual Conference* (2013-15, 2018-20)
- *Innovative & Transformational Ideas to Improve the Development & Policy Response to Forced Displacement*, US-Jordan University Cooperation Network (2019)
- *Women & Gender in Development Conference: Out of the Theory & into the Field*, Virginia Tech (2019)
- *Coastal Resilience Roundtable*, Virginia Tech (2018)
- *Advancing the Human Condition Symposium*, Virginia Tech (2018)
- *AAG Annual Conference* (2014-18)
- *Water Research: Building Knowledge & Innovative Solutions*, Mid-Atlantic Regional Water Centers (2017)
- *South Asia Symposium: Contemporary Films on Life in South Asia*, Virginia Tech (2017)
- *Women in Natural Resources: Leading, Mentoring & Connecting*, Virginia Tech (2016)
- *Water & Health Conference 2015: Where Science Meets Policy*, UNC-Chapel Hill (2015)
- *Symposium on South Asia: An Interdisciplinary Perspective on Issues & Research*, Virginia Tech (2015)
- *Coastal Disaster Resilience Symposium*, Virginia Tech (2014, 2015)
- *The Future of Mid-Atlantic Infrastructure: Challenges & Solutions*, Mid-Atlantic Regional Water Centers (2014)
- *Annual Natural Hazards Research & Applications Workshop*, University of Colorado-Boulder (2014)
- *Roanoke River Currents Watershed Conference*, Ferrum College (2013)
- *Global Health Symposium*, Washington & Lee University (2013)
- *Technical Consultation to Review the Toolkit for Disaster Recovery Practitioners*, Asia Disaster Preparedness Center, India (2012)
- *Natural Disasters & Humanitarian Aid*, University of Iowa (2012)
- *Moynihan Conference on Post-Disaster Recovery*, Syracuse University (2011)
- *Starving for Water: the Global Water Crisis & its Impact on Food & Health*, University of Iowa (2011)
- *A Global Exploration of Comparative Studies & Multi-Sited Research*, University of Iowa (2011)
- *Natural Disasters & Public Memory in South Asia*, University of Iowa (2010)
- *Mitigating Rural Poverty in India*, Indian Development Coalition of America and Indiana State University (2010)
- *Celebrating Crossing Borders*, University of Iowa (2010)
- *Planning for a Disaster-Resistant Community*, FEMA and the American Planning Association (2009)
- *Forum on Disaster Reconstruction*, IIT-Madras, India (2009)
- *International Conference on Re-Examining Disaster Recovery & Reconstruction: Social Science Perspectives on the Tsunami*, Jawaharlal Nehru University, India (2008)
- *Surviving the Monsoon: Natural Disasters in Bangladesh*, Geographic Alliance of Iowa (2008)
- *Transitions in Modern Muslim Societies*, University of Iowa (2008)
- *Leadership Summit on Microfinance*, Gandhigram Rural Institute, India (2007)
- *Vulnerabilities of Labor Migrants*, University of Iowa (2007)
- *Health Services as an Instrument of International Politics*, University of Iowa (2006)