

Daniele Lantagne

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Experience

Tufts University

Medford, MA
Research Professor, Feinstein International Center March 2023 - ongoing
Full Professor, Environmental Engineering September 2021 - February 2023
Associate Professor, Environmental Engineering September 2017 - August 2021
Usen Family Career Development Assistant Professor September 2013 - August 2016
Assistant Professor, Environmental Engineering September 2012 - August 2017
Adjunct Faculty, Public Health and Community Medicine & Community Health May 2013 - present

Conduct research, teach, advise and mentor, and sit on international/national committees in the field of public health engineering in the Feinstein International Center of the Friedman School of Nutrition.

Lancon Environmental, LLC (*previously Alethia Environmental*)

Somerville, MA
Managing Member September 2001 - May 2004; January 2011 - present

Founder of consulting firm. Projects include: 1) Running a BSL-2 laboratory working on surface disinfection and handwashing projects for SARS-CoV-2 surrogates in collaboration with BSL-4 laboratory (the NEIDL at BU); 2) Completing evaluations of cholera and cholera response activities in Yemen and South Sudan; 3) Evaluating household water treatment projects in low-income countries for organizations such as Oxfam, UNICEF, charity: water, and UN agencies; 4) Completing field and laboratory evaluations of the Potters for Peace ceramic filter; 5) Expert witness testimony; and, 6) Working with HydroAnalysis reviewing plans for developments for citizens' groups.

Centers for Disease Control and Prevention

Atlanta, GA
Guest Researcher/Contractor July 2010 - June 2013
Public Health Engineer May 2003 - June 2010

Subject matter expert on water, sanitation, and hygiene in low-income countries and emergencies. Responsibilities included: 1) Working with project partners in over 40 low-income countries to implement and assess water, sanitation, and hygiene projects; 2) Answering implementation-based technical questions by conducting peer-reviewed technical research and writing informational fact sheets; 3) Working as Adjunct Faculty at the Emory University School of Public Health supervising MPH students on research projects; 4) Providing engineering expertise to the Foodborne and Diarrheal Disease Branch in outbreaks; 5) Liaising with the international community in development of research and implementation strategies, including: companies, universities, donors, governments and ministries, and local and international NGOs and agencies; and, 6) Working with the government of Haiti to implement a national plan for household water treatment. Received Global Health Achievement Honor Award in July 2006.

Harvard University Kennedy School of Government

Cambridge, MA
Center for International Development, Sustainability Science Fellow July 2010 - July 2012

Provided technical assistance on point-of-source water treatment in low-income countries as the Director of Global Scale-up and Engineering for the Bill & Melinda Gates Foundation funded Dispensers project at Innovations for Poverty Action. Completed fundraising and research projects.

Massachusetts Institute of Technology

Cambridge, MA
Lecturer September 2001 - June 2003

Advised 12 Masters students in Environmental Engineering on individual projects studying household water treatment in rural Haiti and water resource management and ecology in the US Virgin Islands.

Ipswich River Watershed Association

Ipswich, MA
Programs Director May 1997 - September 2000

Managed (and published reports) for monthly volunteer water quality program, stormwater sampling programs, macroinvertebrate sampling program, fish watch program, and fecal coliform project. Designed, implemented, and solicited funds for projects. Collaborated with local, state, and federal officials. Worked with citizens to form and maintain six local watershed advocacy groups. Wrote interdisciplinary middle-school curriculum, conducted teacher trainings, and student conferences.

MIT Edgerton Center
Outreach Program Coordinator

Cambridge, MA
October 1997 - September 2001

Designed curriculum, taught activities, and produced distribution materials for the Edgerton Center Outreach Program, which provided hands-on science activities to 2,300 Cambridge Public School and community students per year. Designed and taught week long summer science day program for girls.

Louis Berger & Associates, Inc.
Environmental Engineer

Florham Park, NJ
September 1996 - April 1997

Determined hydrologic flows using TR55 and Rational Method. Modeled streams and their watersheds using Hec2 and WSPRO. 40 Hour OSHA trained. Sampled DDT, groundwater wells, and soils. Highway drainage basin and storm sewer design using Hydroflow. Analyzed constructed wetlands.

Certification

Registered Professional Environmental Engineer in Massachusetts

2003 - present

Education

London School of Hygiene and Tropical Medicine
Ph.D.

London, UK
October 2011

Dissertation: Household Water Treatment and Safe Storage in Emergencies. UNICEF/Oxfam funded.

Summary: To assess effectiveness, I investigated HWTS implementations in four acute emergencies, using a mixed-method approach of household surveys, qualitative interviews, cost analysis, and water quality testing. I defined effective use as the percentage of the targeted population using the distributed option to improve the microbiological quality of their stored household water to internationally-accepted levels. Effective use of HWTS options ranged from 0% to 67.5%. HWTS implementations with the highest effective use: 1) targeted households with contaminated water; 2) provided an option that effectively treated water; and, 3) provided the option to a population familiar with that option before the emergency, willing to use it, trained in its use, and with the necessary supplies provided. I recommend utilizing the effective use metric to assess risk reduction in future research.

Massachusetts Institute of Technology

Cambridge, MA

Master's of Engineering in Environmental Engineering

June 2001

Bachelor's of Science in Environmental Engineering

June 1996

Master's thesis: Trihalomethane Production in Rural Household Water Filtration Systems in Haiti.

Advisory

Expert Member of UN Panel to Investigate the Source of Cholera in Haiti Jan-May 2011

I was appointed by the Secretary-General of the United Nations as an expert on an Independent Panel to Investigate the Source of Cholera in Haiti. The four panel members completed concurrent epidemiological, microbiological, and WASH investigations in Haiti. Our conclusion, that the cholera was introduced into Haiti by an individual near the UN facility, was presented to the Secretary-General in May 2011.

WHO Guidelines Development Group on Ebola infection, prevention, and control	2021 - ongoing
WHO Guidelines Development Group on COVID-19 infection, prevention, and control	2020 - ongoing
Somerville Public Schools City-level Reopening Advisory Committee	2020 - ongoing
Somerville Public Schools District-level Environmental Health and Safety Committee	2020 - 2021
Somerville Parents for an Equitable and Safe Opening (SPESO) founding member	2020 - ongoing
PodSchool Administrator, six 3rd graders (three with IEPs) in our home with teacher	2020 - 2021
Wellcome Trust Cholera Research Advisory Board	2020 - ongoing
Fogarty Center Humanitarian Research Conference Planning Board	2019 - ongoing
Global WASH Cluster Research Technical Working Group Lead	2019 - ongoing
Coalition Against Typhoid Working Group	2019 - ongoing
Tufts Institute for the Environment Sustainable Water Management Master's Track Lead	2018 - ongoing
UNICEF Rapid <i>E. coli</i> Detection Working Group	2017 - ongoing
Humanitarian Innovation Fund Technical Working Group	2015 - ongoing
WHO Global Task Force on Cholera Control, Founding Member	2015 - ongoing
WEF Disinfection Conference Co-Chair	2009, 2011, 2013
Abstract reviewer for UNC Water & Health Conference	2013 - ongoing
Sphere Standards WASH Chapter Reviewer, Contributor	2012 - ongoing
Oklahoma University Water Center Advisory Board, Juror	2012 - ongoing
Member of WHO Joint Monitoring Programme Task Force on Water Quality	2010 - ongoing

Journal reviewer (180 reviewed since September 2012) for: American Journal of Trop Medicine and Hygiene, BMC Infectious Diseases, BMC Public Health, Development Engineering, EEH, Environmental Engineering Science, Environment, Development, and Sustainability, Environmental Health Perspectives, Epidemiology, Environmental Science and Technology, Environmental Science and Technology: Letters, Journal of Hydrology, Journal of the American Water Works Association, Journal of Environmental Engineering, Journal of Environment and Public Health, Journal of Infection and Public Health, Journal of Water, Sanitation, and Health for Development, Journal of Water and Health, Journal of Water Supply, Lancet Global Health, PLoS ONE, Tropical Medicine and International Health, Water Research, Water Science and Technology: Water Supply, Waterlines.

Publications

Summary Statistics 100 published manuscripts in peer-reviewed journals

- Google Scholar metrics: h-index 33, i10-index 75, Citations: 3,213
- Italicized names are mentees

100. *Sagar S, DiMascio-Donohue D, Rayner J, Gallandat K, Ritter M, Leandre Joseph M, Lantagne D (2022). Sustained effectiveness evaluation of two water systems installed in Haitian communities after the 2010 earthquake. Journal of Water, Sanitation and Hygiene for Development.*

99. *Griswold S, Marshak A, Fitzpatrick M, Lantagne D, Shoenmakers K, Hebie M, Radday A, De Groote H, Mehta S, Gottlieb G, Webb P, Ghosh S (2022). The One Nutrition in Complex Environments (ONCE) study protocol: a cluster-randomized multi-level multi-sectoral intervention to improve nutrition in Uganda. Trials 23 (1), 1-16.*

98. *Yates T, Bastable A, Allen J, Hestbk C, Hasan B, Hutchings P, Ramos M, Ngasala T, Lantagne D (2022). Gaps in Humanitarian WASH Response: Perspectives from people affected by crises, WASH practitioners, global responders, and the literature. Disasters.*

97. *Heylen C, Yates T, Topper L, Bouvet F, Porteaud D, Ramos M, McCluskey J, Lantagne D (2022). Realtime assessment of WASH coordination in three humanitarian emergencies. PLOS Water 1 (11), e0000047.*

96. *String G, Kamal Y, White MR, Gute DM, Muhlberger E, Lantagne D (2022). Support for Recommendations of Precleaning Before Disinfection: Limited Efficacy of Soapy Water as a Disinfectant against SARS-CoV-2. Journal of Environmental Engineering 148 (11), 06022003.*

95. *Domini M, Pereira SG, Win A, Lantagne D (2022). Qualitative analysis of cash-based interventions for water, sanitation, and hygiene operations and maintenance in internally displaced persons sites in Kachin, Myanmar. Journal of International Development.*

94. *String G, Kamal Y, Gute DM, Lantagne D (2022). Chlorine efficacy against bacteriophage Phi6, a surrogate for enveloped human viruses, on porous and non-porous surfaces at varying temperatures and humidity. Journal of Environmental Science and Health, Part A 57 (8), 685-693.*

93. *String GM, Huang A, Lantagne D (2022). Laboratory evaluation of the efficacy of bucket chlorination guidelines at inactivating Vibrio cholerae for waters of varying quality. Journal of Water and Health 20 (7), 1071-1083.*

92. *Lindmark L, Cherukumilli K, Crider Y, Marcenac P, Lozier M, Voth-Gaeddert L, Lantagne D, Mihelcic J, Zhang QM, Just C, Pickering A (2022). Passive In-Line Chlorination for Drinking Water Disinfection: A Critical Review. Environmental Science & Technology, 56 (13), 9164-9181.*

91. *Domini D, Pereira SG, Win A, Win LY, Lantagne D (2022). Qualitative and Quantitative Analysis of Latrine Management Approaches in Internally Displaced Persons Camps in Myanmar. The American Journal of Tropical Medicine and Hygiene, tpm210526.*

90. *Heylen C, String G, Lantagne D (2022). Laboratory efficacy of locally manufactured ceramic water filters in removing Vibrio cholerae. Environmental Science: Water Research & Technology.*

89. *Sikder M, Altara C, Doocy S, Trowbridge D, Kaur G, Kaushal N, Lantagne D, Azman A, Spiegel P (2021). Case-area targeted preventive interventions to interrupt cholera transmission: Current implementation practices and lessons learned. PLoS neglected tropical diseases. 15(12), e0010042.*

88. *String G, White MR, Gute D, Muhlberger E, Lantagne D (2021). Selection of a SARS-CoV-2 surrogate for use in surface disinfection efficacy studies with chlorine and antimicrobial surfaces. ES & T Letters. 8(11): 995-1001.*
87. **Lantagne D, Lehmann L, Yates T, Gallandat K, Sikder M, Domini M, String G (2021). Lessons learned from conducting six multi-country mixed-methods effectiveness research studies on water, sanitation, and hygiene (WASH) interventions in humanitarian response. BMC Public Health. 21(1).**
86. *Heylen C, Ali C, Gallandat K, Lantagne D, String G (2021). Household disinfection interventions to prevent cholera transmission: facilitators, barriers, training and evidence needs. AJTMH.*
85. *Heylen C, Aguiar A, String G, Domini M, Goff N, Murray A, Asatekin A, Lantagne D (2021). Laboratory efficacy of locally available backwashing methods at removing fouling in hollow-fiber membrane filters used for household water treatment. Membranes. 11 (5).*
84. *Heylen C, Annan E, Monahan K, String G, Lantagne D (2021). Modeling of hydraulic performance in disks and full-scale ceramic water filters. Environmental Science & Technology.*
83. *Sikder M, Naumova E, Ogudipe A, Gomez M, Lantagne D (2021). Fecal indicator bacteria data to characterize drinking water quality in low-resource settings: Summary of current practices and recommendations for improving validity. International Journal of Environmental Research and Public Health. 18 (5).*
82. *Kolus R, Zahrah M, String G, Lantagne D (2021). Culturable E. coli as surrogate for culturable V. cholerae in surface disinfection testing with chlorine. Journal of Environmental Engineering. 147 (4).*
81. *String G, Domini M, Badr H, Brodsky H, Kamal Y, Tatro T, Johnston M, Ogudipe T, Vu T, Wolfe M, Lantagne D (2021). Efficacy of locally-available cleaning methods and household chlorination at inhibiting biofilm development in jerricans used to store household drinking water. Environmental Science: Water Research & Technology. 7 (2).*
80. *String G, Gutierrez E, Lantagne D (2020). Laboratory efficacy of surface disinfection using chlorine against Vibrio cholerae. Journal of Water and Health.*
79. *Ritter M, Camille E, Velcine C, Guillaume RK, Casimir RK, Lantagne D (2020). Impact evaluation of an SMS campaign to promote household chlorination in rural Haiti. Water. 12 (11), 3095.*
78. *Bedrosian N, Mitchell E, Rohm E, Rothe M, Kelly C, String G, Lantagne D (2020). A systematic review of surface contamination, stability, and disinfection data on SARS-CoV-2 (through July 10, 2020). Environmental Science & Technology.*
77. *Domini M, Guidotti S, Lantagne D (2020). Temporal analysis of water, sanitation, and hygiene data from knowledge, attitudes, and practices surveys in the protracted humanitarian crisis in Myanmar. Journal of Water, Sanitation and Hygiene for Development.*
76. *O'Hanlon F, Lantagne D, Morgan D, William N (2020). Maintenance practices and water quality from rainwater harvesting in south-west Uganda. Journal of Water, Sanitation and Hygiene for Development. 10 (3), 549-557.*
75. *Domini M, Guidotti S, Lantagne D (2020). Hygiene kit programs in internally displaced persons camps in Myanmar: results from implementing a cohesive strategy and standardized monitoring program. Waterlines.*
74. *Gallandat, Huang A, Rayner J, String G, Lantagne D (2020). Household spraying in cholera outbreaks: Insights from three exploratory, mixed-methods field effectiveness evaluations. PLOS Neglected Tropical Diseases. 14 (8), e0008661.*
73. *Yates T, Zannat H, Khandaker N, Porteaud D, Bouvet F, Lantagne D (2020). Evidence summary of WASH coordination in humanitarian response. Disasters.*
72. *Ratnayake R, Finger F, Azman A, Lantagne D, Funk S, Edmunds WJ, Checchi F (2020). Highly-targeted spatiotemporal interventions against cholera epidemics, 2000-2019: a scoping review. Lancet Infectious Diseases.*
71. *Brockett S, Wolfe M, Hamot A, Appiah G, Mintz E, Lantagne D (2020). Associations between water, sanitation, hygiene, and food exposures and typhoid fever in case-control studies: A systematic*

review and meta-analysis. *American Journal of Tropical Medicine and Hygiene*.

70. Gallandat K, Kolus RC, Julian TR, **Lantagne DS** (2020). *A systematic review of chlorine-based surface disinfection efficacy to inform recommendations for low-resource outbreak settings*. *American Journal of Infection Control*.
69. Sikder M, String G, Kamal Y, Farrington M, Rahman ABMS, **Lantagne D** (2020). *Effectiveness of water chlorination programs along the emergency-transition-post-emergency continuum: Evaluations of bucket, in-line, and piped water chlorination programs in Cox's Bazar*. *Water Research*. 115854.
68. Sikder M, Mirindi P, String G, **Lantagne D** (2020). *Delivering drinking water by truck in humanitarian contexts: Results from mixed-methods evaluations in the Democratic Republic of the Congo and Bangladesh*. *Environmental Science & Technology*. 54 (8), 5041-5050.
67. String G, Domini M, Mirindi P, Brodsky H, Kamal Y, Tatro T, Johnston M, Badr H, **Lantagne D** (2019). *Efficacy of locally-available cleaning methods in removing biofilms from taps and surfaces of household water storage containers*. *Nature: Clean Water*.
66. String G, Singleton R, Mirindi P, **Lantagne D** (2019). *Operational research on rural, community-managed water safety plans: case study results from implementations in India, DRC, Fiji, and Vanuatu*. *Water Research*. 170, 115288.
65. Murray A, Napotnik J, Rayner J, Mendoza A, Mitro B, Norville J, Faith S, Eleveld A, Jellison K, **Lantagne D** (2019). *Evaluation of consistent use, barriers to use, and microbiological effectiveness of three new household water treatment technologies in Haiti, Kenya, and Nicaragua*. *Science of The Total Environment*. 134685.
64. Mitro B, Wolfe M, Galeano M, Sikder M, Gallandat K, **Lantagne D** (2019). *Barriers and facilitators to chlorine tablet distribution and use in emergencies: A qualitative assessment*. *Water*. 11 (6), 1121.
63. Gallandat K, Stack D, String G, **Lantagne D** (2019). *Residual maintenance using sodium hypochlorite, sodium dichloroisocyanurate, and chlorine dioxide in laboratory waters of varying turbidity*. *Water*. 11 (6), 1309.
62. Spiegel P, Ratnayake R, Hellman N, Ververs M, Ngwa M, Wise P, **Lantagne D** (2019). *Responding to epidemics in large-scale humanitarian crises: a case study of the cholera response in Yemen, 2016-2018*. *BMJ Global Health*. 4 (4), e001709.
61. Holding S, Sadeghi I, White T, Murray A, Ray J, Asatekin A, **Lantagne D** (2019) *Acceptability, effectiveness, and fouling of PointOne membrane filters distributed in South Sudan*. *Journal of Water, Sanitation and Hygiene for Development*. 9 (2), 247-257.
60. Geremew A, Mengistie B, Mellor J, **Lantagne DS**, Alemayehu E, Sahilu G (2019). *Consistent point-of-use water chlorination among households using unimproved water sources and treatment preference in Eastern Ethiopia*. *International Journal of Environmental Health Research*. 1-16.
59. Geremew A, Mengistie B, Mellor J, **Lantagne DS**, Alemayehu E, Sahilu G (2018). *Appropriate household water treatment methods in Ethiopia: household use and associated factors based on 2005, 2011, and 2016 EDHS data*. *Environmental Health and Preventive Medicine*. 23(1):46.
58. Sikder M, Daraz U, **Lantagne D**, Saltori R (2018). *Effectiveness of multi-level risk management emergency response activities to ensure free chlorine residual in household drinking water in southern Syria*. *Environmental Science & Technology*. Dec 18;52(24):14402-14410.
57. **Lantagne D**, Wolfe M, Gallandat K, Opryszko M (2018). *Determining the efficacy, safety and suitability of disinfectants to prevent emerging infectious disease transmission*. *Water*. 10(10):1397-.
56. **Lantagne D**, Yates T (2018). *Household water treatment and cholera control*. *The Journal of Infectious Diseases*. 218(suppl3):S147-S153.
55. Mello-Guyett L, Yates T, Bastable A, Dahab M, Deola C, Dorea C, Dreibelbis R, Grieve T, Handzel T, Harmer A, **Lantagne D**, Maes P, Opryszko M, Palmer-Felgate S, Reed B, Van Den Bergh R, Porteaud D, Cumming O (2018). *Setting priorities for humanitarian water, sanitation and hygiene research: a meeting report*. *Conflict and Health*. 12(1):22.
54. Geremew A, Mengistie B, Alemayehu E, **Lantagne DS**, Mellor J, Sahilu G (2018). *Point-of-use*

- water chlorination among urban and rural households with under-five year children: A comparative study in Kersa Health and Demographic Surveillance Site, Eastern Ethiopia.* Journal of Water, Sanitation and Hygiene for Development. 8 (3): 468-480.
53. Sikder M, Daraz U, **Lantagne D**, Saltori R (2018). *Water, sanitation, and hygiene access in southern Syria: analysis of survey data and recommendations for response.* Conflict and Health. 12(1):17.
52. Lyon-Marion BA, Mittelman AM, Rayner J, **Lantagne DS**, Pennell KD (2018). *Impact of chlorination on silver elution from ceramic water filters.* Water Research. 2018 Oct 1;142:471-479.
51. Wolfe M, Kaur M, Yates T, Woodin M, **Lantagne D** (2018). *A systematic review and meta-analysis of the association between water, sanitation, and hygiene exposures and cholera in case-control studies.* The American Journal of Tropical Medicine and Hygiene. 99(2):534-545.
50. Yates T, Vujcic J, Leandre M, Gallandat K, **Lantagne D** (2018). *Water, sanitation, and hygiene interventions in outbreak response: a synthesis of evidence.* Waterlines. 37(1): 5-30.
49. Yates T, Vujcic J, Leandre M, Gallandat K, **Lantagne D** (2018). *Efficacy and effectiveness of water, sanitation, and hygiene interventions in emergencies in low-and middle-income countries: a systematic review.* Waterlines. 37(1): 31-65.
48. Murray A, Kumpel E, Peletz R, Khush R, **Lantagne D** (2017). *The effect of sodium thiosulfate dechlorination on fecal indicator bacteria enumeration: laboratory and field data.* Journal of Water and Health. DOI: 10.2166/wh.2017.077.
- C6. **Lantagne D**, Rayner J, Mittelman AM, Pennell KD (2017). *Comment on "A re-assessment of the safety of silver in household water treatment: rapid systematic review of mammalian in vivo genotoxicity studies".* Environmental Health. 16: 121.
47. Wilhelm N, Kaufmann A, Blanton E, **Lantagne D** (2017). *Sodium hypochlorite dosage for household and emergency water treatment: updated recommendations.* Journal of Water and Health. DOI: 10.2166/wh.2017.012.
46. Ritter M, Camille E, Velcine C, Guillaume R, **Lantagne D** (2017). *Optimizing household chlorination marketing strategies: A randomized controlled trial on the effect of price and promotion on adoption in Haiti.* American Journal of Tropical Medicine and Hygiene. 97(1): 271-280.
45. Wolfe M, **Lantagne D** (2017). *A method to test the efficacy of handwashing for the removal of emerging infectious pathogens.* Journal of Visualized Experiments. Jun 7(124). DOI: 10.3791/55604.
44. Gallandat K, **Lantagne D** (2017). *Selection of a Biosafety Level 1 (BSL-1) surrogate to evaluate surface disinfection efficacy in Ebola outbreaks: Comparison of four bacteriophages.* PLoS ONE. 12(5): e0177943.
43. Rayner J, Luo X, Schubert J, Lennon P, Jellison K, **Lantagne D** (2017). *The effects of input materials on ceramic water filter efficacy for household drinking water treatment.* Water Science and Technology: Water Supply. 17(3): 859-869.
42. Gallandat K, Wolfe M, **Lantagne D** (2017). *Surface cleaning and disinfection: Efficacy assessment of four chlorine types using Escherichia coli and the Ebola Surrogate Phi6.* Environmental Science & Technology. 51(8): 4624-4631.
41. Murray A, Steward B, Hopper C, Tobin E, Rivera J, Mut-Tracy H, Stewart P, Stewart C, Tobin C, Goeb M, Meub C, **Lantagne D** (2017). *Laboratory efficacy and field effectiveness of hollow fiber membrane microfilters used for household water treatment in Honduras.* Journal of Water, Sanitation and Hygiene for Development. 7(1): 74-84.
40. Wilner L, Wells E, Ritter M, Casimir J, Chui K, **Lantagne D** (2017). *Sustained use in a relief-to-recovery household water chlorination program in Haiti: comparing external evaluation findings with internal supervisor and community health worker monitoring data.* Journal of Water, Sanitation and Hygiene for Development. 7(1): 56-66.
39. Wolfe M, Gallandat K, Daniels K, Desmarais AM, Scheinman P, **Lantagne D** (2017). *Handwashing and Ebola virus disease outbreaks: A randomized comparison of soap, hand sanitizer, and 0.05% chlorine solutions on the inactivation and removal of model organisms Phi6 and E. coli from hands and persistence*

in rinse water. PLoS ONE. 12(2): e0172734.

38. Meade R, Murray A, Mittelman A, Rayner J, **Lantagne D** (2017). *Accuracy, precision, usability, and cost of portable silver test methods for ceramic filter factories*. Journal of Water and Health. 15(1): 72-82.
37. Branz A, Levine M, Lehmann L, Bastable A, Ali SI, Kadir K, Yates T, Bloom D, **Lantagne D** (2017). *Chlorination of drinking water in emergencies: a review of knowledge to develop recommendations for implementation and research needed*. Waterlines. 36(1): 4-39.
36. Wolfe M, Wells E, Mitro B, Desmarais A, Scheinman P, **Lantagne D** (2017). *Seeking clearer recommendations for hand hygiene in communities facing Ebola: A randomized trial investigating the impact of six handwashing methods on skin irritation and dermatitis*. PLoS ONE. 11(12): e0167378.
35. Rayner J, Yates T, Leandre M, **Lantagne D** (2016). *Sustained effectiveness of automatic chlorinators installed in community-scale water distribution systems during an emergency recovery project in Haiti*. Journal of Water, Sanitation and Hygiene for Development. 6(4): 602-612.
34. String G, **Lantagne D** (2016). *A systematic review of outcomes and lessons learned from general, rural, and country-specific Water Safety Plan implementations*. Water Science and Technology: Water Supply. 16(6): 1580-1594.
33. Murphy J, Ayers T, Knee J, Oremo J, Odhiambo A, Faith S, Nyagol R, Stauber C, **Lantagne D**, and Quick R. (2016). *Evaluating four measures of water quality in clay pots and plastic safe storage containers in Kenya*. Water Research. 104: 312-319.
32. Iqbal Q, Lubeck-Schricker M, Wells E, Wolfe M, **Lantagne D** (2016). *Shelf-life of chlorine solutions recommended in Ebola virus disease response*. PLoS ONE. 11(5): e0156136.
31. Wells E, Wolfe M, Murray A, **Lantagne D** (2016). *Accuracy, precision, ease-of-use, and cost of methods to test Ebola-relevant chlorine solutions*. PLoS ONE. 11(5): e0152442.
30. Lemons A, Branz A, Kimirei M, Hawkins T, **Lantagne D** (2016). *Assessment of the quality, effectiveness, and acceptability of ceramic water filters in Tanzania*. Journal of Water, Sanitation and Hygiene for Development. 6(2): 195-204.
29. Mellor J, Levy K, Zimmerman J, Elliott M, Bartram J, Carlton E, Clasen T, Dillingham R, Eisenberg J, Guerrant R, **Lantagne D**, Mihelcic J, and Nelson K (2016). *Planning for climate change: The need for mechanistic systems-based approaches to study climate change impacts on diarrheal diseases*. Science of the Total Environment. 548-9: 82-90.
28. Rayner J, Murray A, Joseph M, Branz A, **Lantagne D** (2016). *Evaluation of household drinking water filter distributions in Haiti*. Journal of Water, Sanitation and Hygiene for Development. 6(1): 42-54.
27. **Lantagne D**, Bastable A, Ensink J, Mintz E (2015). *Innovative WASH Interventions to Prevent Cholera*. WHO Wkly Epid Rec. October 2, 2015.
26. Blanton E, Wilhelm N, O'Reilly C, Muhonja E, Karoki S, Ope M, Langat D, Omolo J, Wamola N, Hoekstra R, Ayers T, DeCock K, Breiman R, Mintz E, **Lantagne D** (2015). *A rapid assessment of drinking water quality in informal settlements after a cholera outbreak in Nairobi, Kenya*. Journal of Water and Health. 13(3): 714-25.
25. Mittelman AM, **Lantagne DS**, Rayner J, Pennell KD (2015). *Silver dissolution and release from ceramic water filters*. Environmental Science and Technology. 49(14): 8515-22.
24. Yates TM, Armitage E, Lehmann LV, Branz AJ, **Lantagne DS** (2015). *Effectiveness of chlorine dispensers in emergencies: case study results from Haiti, Sierra Leone, Democratic Republic of Congo, and Senegal*. Environmental Science and Technology. 49(8): 5115-22.
23. Yates T, **Lantagne D**, Mintz E, Quick R (2015). *The impact of water, sanitation, and hygiene interventions on the health and well-being of people living with HIV: a systematic review*. Journal of Acquired Immune Deficiency Syndrome. 68(Suppl 3): S318-30.
- C5. **Lantagne DS**, Hunter PR (2015). *Comment on "Ebola virus persistence in the environment: state of the knowledge and research needs"*. Environmental Science & Technology Letters. 2(2): 48-49.

- C4. **Lantagne D** (2015). *Comment on “Household effectiveness vs. laboratory efficacy of point-of-use chlorination”*. *Water Research*. 69: 328-30.
22. Murray A, Pierre-Louis J, Joseph F, Sylvain G, Patrick M, **Lantagne D** (2015). *Need for certification of household water treatment products: examples from Haiti*. *Tropical Medicine and International Health*. 20(4): 462-70.
- C3. Murray A, Goeb M, Stewart B, Hopper C, Peck J, Meub C, Asatekin A, **Lantagne D** (2015). *Response to : Lindquist, E.D., Normal, W.R., and Soerens, T. (2015) A review of: Fouling in hollow fiber membrane microfilters used for household water treatment (2015)* *Journal of Water, Sanitation and Hygiene for Development*. 5(2): 232-234.
21. Murray A, Goeb M, Stewart B, Hopper C, Peck J, Meub C, Asatekin A, **Lantagne D** (2015). *Fouling in hollow fiber membrane microfilters used for household water treatment*. *Journal of Water, Sanitation and Hygiene for Development*. 5(2): 220-228.
20. Murray A, **Lantagne D** (2015). *Accuracy, precision, usability, and cost of free chlorine residual test methods*. *Journal of Water and Health*. 13(1): 79-90.
19. **Lantagne D**, Person B, Smith N, Mayer A, Preston K, Blanton E, and Jellison K (2014). *Emergency water treatment with bleach in the United States: the need to revise EPA recommendations*. *Environmental Science & Technology*. 48(9): 5093-5100.
18. Imanishi M, Kweza PF, Slayton RB, Urayai T, Ziro O, Mushayi W, Francis-Chizororo M, Kuonza LR, Ayers T, Freeman MM, Govore E, Duri C, Chonzi P, Mtapuri-Zinyowera S, Manangazira P, Kilmarx PH, Mintz E, and **Lantagne D** (2014). *Household water treatment uptake during a public health response to a large typhoid fever outbreak in Harare, Zimbabwe*. *American Journal of Tropical Medicine and Hygiene*. 90(5): 945-954.
17. **Lantagne D**, Clasen T (2013). *Effective use of household water treatment and safe storage in response to the 2010 Haiti earthquake*. *American Journal of Tropical Medicine and Hygiene*. 89(3): 426-433.
16. Rayner J, Zhang H, Schubert J, Lennon P, **Lantagne D**, Oyanedel-Craver V (2013). *Laboratory investigation into the effect of silver applied on the bacteriological removal efficacy of filter material for use on locally-produced ceramic water filters for household drinking water treatment*. *ACS Sustainable Chemistry & Engineering*. 1(7): 737-745.
15. Rayner J, Skinner B, **Lantagne D** (2013). *Current practices in manufacturing locally-made ceramic pot filters for water treatment in low-income countries*. *Journal of Water, Sanitation and Hygiene for Development*. 3(2): 252-261.
14. **Lantagne D**, Nair GB, Lanata C, Cravioto A (2012). *The origin of cholera in Haiti*. *Journal of Disaster Research*. 7(6): 759-767.
13. **Lantagne D**, Clasen T (2012). *Use of household water treatment and safe storage methods in acute emergency response: case study results from Nepal, Indonesia, Kenya, and Haiti*. *Environmental Science and Technology*. 46(20): 11352-60.
12. Harshfield E, **Lantagne D**, Turbes A, Null C (2012). *Evaluating the sustained health impact of household chlorination of drinking water in rural Haiti*. *American Journal of Tropical Medicine and Hygiene*. 87(5): 786-95.
11. Null C, **Lantagne D** (2012). *Microbiological quality of chlorinated water after storage in ceramic pots*. *Journal of Water, Sanitation and Hygiene for Development*. 2(4): 250-253.
10. **Lantagne D**, Clasen T (2012). *Point-of-use water treatment in emergencies*. *Waterlines*. 31(1-2): 30-52.
9. **Lantagne D**, Preston K, Blanton E, Kotlarz N, Gezagehn H, van Dusen E, Berens J, Jellison K (2011). *Hypochlorite solution expiry and stability in household water treatment in developing countries*. *Journal of Environmental Engineering*. 137(2): 131-6.
8. Preston K, **Lantagne D**, Kotlarz N, Jellison K (2010). *Turbidity and chlorine demand reduction using alum and moringa flocculation before household chlorination in developing countries*. *Journal of*

Water and Health. 8(1): 60-70.

C2. **Lantagne D** (2010). *Comment on “An observational study on the effectiveness of point-of-use chlorination”*. Journal of Environmental Health. 72(2): 38-9.

7. **Lantagne D**, Klarman M, Mayer A, Preston K, Napotnik J, Jellison K (2010). *Effect of production variables on microbiological removal in locally-produced ceramic filters for household water treatment*. International Journal of Environmental Health Research. 20(3): 171-87.

6. **Lantagne D**, Cardinali F, Blount BC (2010). *Disinfection by-product formation and mitigation strategies in point-of-use chlorination with sodium dichloroisocyanurate in Tanzania*. American Journal of Tropical Medicine and Hygiene. 83(1): 135-43.

5. Kotlarz N, **Lantagne D**, Preston K, Jellison K (2009). *Turbidity and chlorine demand reduction using locally available physical water clarification mechanisms before household chlorination in developing countries*. Journal of Water and Health. 7(3): 497-506.

C1. **Lantagne D**, Meierhofer R, Allgood G, McGuigan KG, Quick R (2009). *Comment on “Point of use household drinking water filtration: a practical, effective solution for providing sustained access to safe drinking water in the developing world.”* Environmental Science & Technology. 43(3): 968-9.

4. **Lantagne D** (2009). *Viability of commercially available bleach for water treatment in developing countries*. American Journal of Public Health. 99(11): 1975-8.

3. **Lantagne D**, Blount BC, Cardinali F, Quick R (2008). *Disinfection by-product formation and mitigation strategies in point-of-use chlorination of turbid and non-turbid waters in western Kenya*. Journal of Water and Health. 6(1): 67-82.

2. **Lantagne D** (2008). *Sodium hypochlorite dosage for household and emergency water treatment*. Journal of the American Water Works Association. 100(8): 106-119.

1. **Lantagne D**, Quick R, Mintz E (2006). *Household water treatment and safe storage options in developing countries: a review of current implementation practices*. Woodrow Wilson International Center for Scholars. Environmental Change and Security Program.

Book Chapters

Lantagne D Yates T, Branz A and Bastable A (2017). Emergency Response In *Global Water Pathogens Project*, Haas C and Rose J, Ed. Lansing, MI: UNESCO.

Lantagne D and Gute DM (2015). Chapter 27: Household Focused Interventions. In *Handbook of Water and Health*, Bartram J, Ed. New York: Routledge.

Lantagne D and Clasen T (2015). Point-of-use Water Treatment in Emergencies. In *Water, Sanitation and Hygiene in Humanitarian Contexts: Reflections on current practice*, Carter RC, Ed. Practical Action Publishing: United Kingdom.

Lantagne D (2015). Water, Sanitation, and Hygiene Interventions to Reduce the Burden of Diarrheal Disease in Developing Countries: Household Water Treatment and Safe Storage (2015). In *Ground Rules for Humanitarian Design*, Min Soo Chun A, Brisson I Editors, John Wiley & Son's, Ltd.: West Sussex, United Kingdom.

Lantagne D, Nair GB, Lanata C, and Cravioto A (2014). *The cholera outbreak in Haiti: Where and how did it begin?* Current Topics in Microbiological Immunology, 379, 145-64.

Reports

Yates T, Vujcic J, Leandre M, Gallandat K, **Lantagne D** (2017). *Short-term Hygiene Interventions in Emergency Response Situations: a Systematic Review and Impact Analysis*. Tufts University for 3ie. Medford, MA.

Yates T, Vujcic J, Leandre M, Gallandat K, and **Lantagne D** (2017). *WASH Interventions in Disease Outbreak Response*. Tufts University for the Humanitarian Evidence Programme. Medford, MA.

Lantagne D (2016). *As Rio bay waters show, we badly need innovation in treating human wastes*. The Conversation.

Rayner J and **Lantagne D** (2014). *Investigations on Water Filtration in Haiti*. Tufts University for the Centers for Disease Control and Prevention. Medford, MA.

Ascolillo L and **Lantagne D** (2014). *Five Technical Memorandums on WASH and Nutrition*. Tufts University for Oxfam. Medford, MA.

Lantagne D, Khush R, and Montgomery M (2012). *A Toolkit for Monitoring and Evaluating Household Water Treatment and Safe Storage Programmes*. Geneva, Switzerland, World Health Organization.

Cravioto A, Lanata C, **Lantagne D**, and Nair GB (2011). *Final Report of the Independent Panel of Experts on the Cholera Outbreak in Haiti*. New York, NY, USA: Presented to the Secretary-General of the United Nations.

Rayner J, **Lantagne D**, and working group members for PATH (2011). *Best Practice Recommendations for Local Manufacturing of Ceramic Pot Filters for Household Water Treatment*. PATH and Centers for Disease Control and Prevention. Atlanta, GA, USA.

Lantagne D (2010). *Microbiological Indicator Testing in Developing Countries: A Fact Sheet for the Field Practitioner*. Centers for Disease Control and Prevention. Atlanta, GA, USA.

Lantagne D and Gallo B (2008). *Safe Water for the Community: A Guide for Establishing a Community-based Safe Water System Program*. Centers for Disease Control and Prevention: Atlanta, GA, USA.

Lantagne D (2001). *Investigations of the Potters for Peace Colloidal Silver Impregnated Ceramic Filter. Report 1: Intrinsic Effectiveness and Report 2: Field Effectiveness*. Allston, MA, USA.

Grants

Summary Statistics More than 4.75 million USD brought into Tufts since 2012

BHA Translating Research into Action	9/2022 - 12/2024, \$450,381 PI
UNICEF WASH Severity and Coordination	9/2022 - 12/2023, \$181,900 PI
SI Quality Assurance in Humanitarian Response Project	9/2022 - 12/2023, \$41,600 co-PI
SI Study on Bioadditives	6/2022 - 6/2023, \$22,000 co-PI
R2HC CHNRI Emergency WASH Research Agenda	6/2022 - 6/2023, \$65,000 co-PI
UNICEF WASH Severity Classification	6/2022 - 12/2022, \$65,000 PI
HIF Chlorination in Emergencies	1/2021 - 11/2022, \$127,742 co-PI
DARPA BecauseWe - WASH in Emergencies Planning	1/2021 - 12/2022, \$300,000 co-PI
OFDA Applied Research on Disinfection and Hands to Prevent Ongoing Transmission of SARS-CoV-2	6/2020 - 12/2021, \$560,000 co-PI
Oxfam Emergency Gap Analysis	10/2020 - 6/2021, \$35,000 co-PI
OFDA Development of Cholera Recommendations by Context	9/2019 - 12/2021, \$133,038 PI
SI/OFDA Cholera Monitoring in Nigeria	1/2020 - 6/2020, \$48,000 Sub
PQMD Evaluating Hygiene Kits in Emergencies	9/2019 - 12/2020, \$32,075 Sub
UNICEF/Geneva Outcomes of Coordination in Yemen, DRC, and Bangladesh	9/2019 - 12/20, \$112,338 PI

Tufts Medical / USAID	9/2017 - 12/31/22, \$62,334
WASH and Nutrition in Rural Northern Uganda	Sub to Tufts Medical School
R2HC	9/2017 - 3/31/20, \$268,750
Filling the Gap: Researching CISUR Interventions to Prevent Cholera	PI
Oxfam	11/2018 - 12/2019, \$22,082
Quality Assurance Project in Emergencies	Sub
OFDA	9/2017 - 12/2019, \$500,000
Closing the Gap: Action Research on CISUR Interventions in Emergency Response	PI
UNICEF/Myanmar	1/2019 - 12/2019, \$81,855
Evaluation of Latrines and Cash Grants in IDPs in Myanmar	PI
UNICEF/Geneva	1/2018 - 12/2019, \$88,000
Assessing the Impacts of Coordination	PI
UNICEF/NYC	9/2017 - 8/2018, \$50,000
Tufts-UNICEF Agreement on Syria, Nigeria, and Literature Review	PI
Tufts Collaborates	9/2018 - 6/2019, \$50,000
Investigating Membrane Fouling in Filters Distributed in Low-Income Contexts	PI
Amway	9/2017 - 12/2018, \$107,612
Evaluation of Prototype Filter	PI
Bill and Melinda Gates Foundation	6/2016 - 12/2018, \$83,640
Aba Kolera!	Sub to Massachusetts General Hospital
Cartier Charitable Foundation	11/2015 - 6/2016, \$50,000
Evaluation of a CCF-funded water supply project in Haiti	PI
Humanitarian Evidence Programme	7/2015 - 7/2016, \$39,924
What is the impact of WASH interventions in disease outbreaks in humanitarian emergencies?	PI
USAID/OFDA	6/2015 - 2/2017, \$558,504
Applied Research on Disinfection to Prevent Ongoing Transmission of Ebola	PI
3ie	6/2015 - 10/2016, \$85,674
What is the effectiveness of hygiene interventions in emergency response situations?	PI
PATH	6/2015 - 11/2016, \$119,636
PATH Filter Field Study in Haiti and Kenya	PI
UNICEF	2/2015 - 4/2017, \$142,379
Operational Research on Water Safety Plans in Afghanistan, India, DRC, and Ghana	PI
Tufts Institute for Innovation	1/2015 - 12/2015, \$43,380
Relationship between <i>E. coli</i> and <i>V. Cholerae</i> in Source and Drinking Water in Haiti	Sub
Child Health Foundation	1/2015 - 12/2015, \$29,525
Evaluation Plan for Child Relief International's "SouthEast Clean Water Project, Haiti"	PI
Aquaya	11/2014 - 12/2014, \$2,000
Monitoring for Safe Water - Sodium Thiosulfate Experiment	PI
Faculty Research Fund	11/2014 - 6/2015, \$3,214
Accuracy, Precision, Cost, and Acceptability of Silver Testing Methods	PI
Kohler	9/2014 - 12/2019, \$113,354
Collaboration between Tufts and Kohler	PI
charity: water	9/2014 - 12/2014, \$11,250
Technical assistance on M&E in Malawi	PI
Oxfam	3/2014 - 11/2014, \$3,500
Desk Review: Maximizing the Effectiveness of WaSH Approaches on Malnutrition	PI

Centers for Disease Control and Prevention Inter-Personnel Agreement on reducing cholera in Haiti	9/2014 - 8/2015, \$24,268 PI
Centers for Disease Control and Prevention Investigation of Filtration Options in Haiti	9/2013 - 8/2014, \$35,000 PI
Operation Blessing Assessing AquaAccess Use During Distribution in Haiti	2014 - 2016, \$22,000 PI
Centers for Disease Control and Prevention Inter-Personnel Agreement on reducing cholera in Haiti	9/2013 - 8/2014, \$36,965 PI
Gift of Water Assessing GWI Purifier Use after Modified Training Protocol	5/2013 - 5/2014, \$19,800 PI

Advisees

Summary Statistics *Graduate nine Ph.D. students and five Master's students at Tufts*

Ph.D. Students

Ricau M (Final year PhD). Research focus: Cholera in conflict areas.

Heylen C (Ph.D. 2021). Dissertation Title: *Household water treatment with filters in humanitarian response: investigations on laboratory efficacy and coordination..* Tufts University, Ph.D.

Current: Post-doctoral Scholar in Lantagne Group

Sikder M (Ph.D. 2020). Dissertation Title: *Provision of water supply in emergency response: Evaluation of current practices and recommendations for the future.* Tufts University, Ph.D.

Current: Research scientist, IHME at University of Washington

Wolfe M (Ph.D. 2019). Dissertation Title: *Context-specific approaches to the assessment of WASH exposures, interventions, and outcomes.* Tufts University, Ph.D.

Current: Assistant Professor at Emory University

Gallandat K (Ph.D. 2019). Dissertation Title: *Surface disinfection efficacy and effectiveness assessment for low-income outbreak settings.* Tufts University, Ph.D.

Current: Assistant Professor at LSHTM

Ritter M (Ph.D. 2018). Dissertation Title: *Multi-stakeholder optimization of preventive health programs: Evidence from randomized experiments on marketing strategies for household chlorination in Haiti.* Tufts University, Ph.D.

Current: Assistant Professor at Gordon College

Rayner J (Ph.D. 2018). Dissertation Title: *Ceramic pot water filters: Investigations into manufacturing and performance.* Tufts University, Ph.D.

Current: Self-employed consultant.

Yates T (Ph.D. 2017). Dissertation Title: *Emergency water, sanitation, and hygiene interventions in low and middle-income countries.* Tufts University, Ph.D.

Current: WASH Team at USAID/BHA

String G (Ph.D. 2017). Dissertation Title: *Approaches in drinking water provision in developing countries: An investigation of water safety plans and ceramic water filters.* Tufts University, Ph.D.

Current: Post-doc at Tufts, Assistant Professor at Lehigh University (Spring 2022).

Murray A (Ph.D. 2017). Dissertation Title: *Evaluation and regulation of household water treatment technologies in developing countries.* Tufts University, Ph.D.

Current: Researcher at Aquaya Institute.

Master's Students

- Khandaker N (2021). Research focus: fecal sludge management. Tufts University, MS.
- Ogudipe A (2019). Sustainable Water Management Student, no thesis. Tufts University, MS.
- Zannat H (2019). No thesis, research focus: contamination along the water chain. Tufts University, MS.
- Monahan K (2017). Climate change investigations. Tufts University, MS.
- Meade R (2016). *Accuracy, Precision, Cost, and Acceptability of Silver Testing Methods in Ceramic Filter Manufacturing Facilities*. Tufts University, MS.
- Harshfield E (2011). *Evaluating the Long-Term Health Impact of Household Chlorination of Drinking Water in Rural Haiti*. Emory University, MPH.
- Rayner J (2009). *Current Practices in Manufacturing of Ceramic Pot Filters for Water Treatment*. Loughborough University, MS.
- Klarman M (2009). *Investigation of Ceramic Pot Filter Design Variables*. Emory University, MPH.
- Lemons A (2009). *Maji Salama: Implementing Ceramic Water Filtration Technology in Arusha, Tanzania*. Emory University, MPH.
- Ritter M (2008). *Determinants of Adoption of Household Water Treatment Products in Rural Haiti*. Emory University, MPH.
- Brin G (2003). *Evaluation of the Safe Water System in Jolivert Haiti by Bacteriological Testing and Public Health Survey*. MIT, MEng.
- Parsons J (2002). *Solar Disinfection in Haiti*. MIT, MEng.
- Elice S (2002). *Chlorine Demand in Haiti Water Supplies*. MIT, MEng.
- Varghese A (2002). *Point-of-use Water Treatment Systems in Rural Haiti: Human Health and Water Quality Impact Assessment*. MIT, MEng.
- Borucke M (2002). *Filtration of Giardia Cysts from Haiti Drinking Water*. MIT, MEng.

Presentations

- | | |
|---|--|
| Classes and lectures at Tufts, Harvard, MIT, McGill, Olin | 2012-ongoing, yearly |
| Presentations at UIUC, Cornell, Berkeley, Lehigh, Emory, GA Tech, Yale, Rotary | 2005-ongoing |
| Global Task Force for Cholera Control - various locations | 2016 -ongoing |
| ASTMH - various locations | 2017 - ongoing |
| Water and Health: Where Science Meets Policy - UNC Chapel Hill | October 2010 - ongoing |
| Emergency Environmental Health Forum - various | 2011, 2013, 2015, 2016, 2017, 2018, 2019, 2021, 2022 |
| WEDC Conference - various | 2016 - ongoing |
| OU WaTER Conference - Oklahoma City, OK | September 2011, 2013, 2015, 2017 |
| Invited Participant, Gates Foundation meeting on Sanitation in Emergencies | October 2018 |
| NASEM workshop on Urbanization and Slums - Washington, DC | December 2017 |
| Summer Course on Water - Brescia, Italy | July 2017 |
| Water Conference - University of Colorado Boulder | March 2017 |
| Gordon Conference - Environmental Sciences - Water Microbiology - UNC Chapel Hill | June 2016 |
| NSF Ebola Meeting - Washington, DC | May 2016 |
| Portland Engineers Week Keynote Speaker - Portland, OR | February 2016 |
| Chinese American Frontiers of Engineering - Session Leader - Irvine, CA | June 2015 |
| WEF Disinfection 2013, Conference Co-chair - Indianapolis, IN | February 2013 |
| AWWA ACE11 - Washington, DC | June 2011 |
| WEF Disinfection 2011, Conference Co-chair - Cincinnati, OH | April 2011 |
| International HWTS Network Meeting - Dublin, Ireland | September 2009 |
| WEF Disinfection 2009, Conference Co-chair - Atlanta, GA | February 2009 |
| Emergency WASH Cluster Research Workshop - Geneva, Switzerland | January 2009 |
| Rotary International Water Summit - Los Angeles, Birmingham, UK | June 2008, June 2009 |
| National Academy of Engineering, Ethics in Engineering - Washington, DC | September 2008 |
| Interagency WatSan Emergency Meeting - Brussels, Belgium | April 2008 |

Engineers without Borders National Conference - Seattle, WA	April 2008
Disinfection 2007 Keynote Speaker - Pittsburgh, PA	January 2008
World Water Forum - Mexico City, Mexico	March 2006
International Conference on Women and Infections Diseases - Atlanta, GA	March 2006
NAE USFOE Symposium	September 2005
IWA Small Water and Wastewater	November 2002
WEF Technology in Latin America	November 2001

Awards	Usen Family Career Development Assistant Professor	2013-2016
	William W. Edgar Pioneer Award, Water Environment Federation	February 2013

Interests I enjoy hiking, cooking vegan foods, yoga, US state highpointing (50 state completer!), lindy hop dancing, and raising my two kids with my husband. I also enjoy traveling, and I have a working knowledge of Spanish, French, and Haitian Kreyol.