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PROFESSIONAL PREPARATION

Ph.D.	Civil and Environmental Engineering	Stanford University, Stanford, CA (2019)
M.S.	Civil and Environmental Engineering	Stanford University, Stanford, CA (2012)
M.E.S	Environmental Science	Taylor University, Upland, IN (2005)
B.S.	Environmental Biology, Cum Laude	Taylor University, Upland, IN (2003)
	Center for Medieval and Renaissance Studies	Oxford University, United Kingdom (2001)

RESEARCH AND TEACHING INTERESTS

Resource Recovery and Reuse from Waste Streams: Creating green space in low-income urban settings; Reuse of graywater and recovered nutrients; cost effective design and implementation strategies, monitoring of nutrient cycling
Sustainable Delivery of Waste Services in Urban Settings: Container-Based Sanitation Service development; Guidelines and Standard Operating Procedure creation and research, application of implementation science principles.
Development and Analysis of Entrepreneurial-Based Service Delivery in Low-Income Settings: Testing various methods for the provision of essential services using market-based models; design methods for the creation of new models
Caloric Costs of Water Fetching: Measurement of caloric energy costs; research into alternative estimation methods; using caloric measurements to improve cost-benefit analysis of water interventions.

Key Words: Rural water, water source coverage area, energy expenditure, water fetching, gendered activities, health, human centered design, entrepreneurship, container-based sanitation services, dense urban settings, location and space, low- and middle- income settings.

PEER- REVIEWED PUBLICATIONS

- 2022 F. VanRipper, **K. Russel**, L. Cramer, D. Tillias, J. Laporte, E. Lloyd, S. Kramer. 2022. “Container-based sanitation services and attrition: an examination of drivers and implications.” *Frontiers of Environmental Science*. 9:817142. DOI: 10.3389/fenvs.2021.817142
- 2021 F. VanRipper, **K. Russel**, D. Tillias, J. Laporte, E. Lloyd, L. Cramer, S. Kramer. 2021. “The sanitation arc: an alternative examination of WASH behavior change.” *Journal of Water, Sanitation and Hygiene for Development*, 7(1), 2080003. DOI: 10.2166/washdev.2021.162

- 2020 **K. Russel**, M. Buman, J. Davis, W. Haskell. 2020. “Estimating energy expenditure of head-hauling water and grain grinding from heart-rate monitor measurements in northern Mozambique.” *Public Health Nutrition*, 23(16), 2886-2897.
- 2019 **K. Russel**, K. Hughes, M Roach, D. Auerbach, A. Foote, S. Kramer, R. Briceño. 2019. “Taking Container-Based Sanitation to Scale: opportunities and Challenges.” *Frontiers Environmental Science*, 7, 190.
- 2015 **K. Russel**, S. Tilmans, S. Kramer, R. Sklar, D. Tillias and J. Davis. 2015. “User perception of and willingness to pay for household container-based sanitation services: experience from Cap Haitien, Haiti.” *Environment and Urbanization* Vol 27, No 2, pp. 525-540.
- 2015 S. Tilmans, **K. Russel**, R. Sklar, L. Page, S. Kramer, and J. Davis. 2015. “Container-based sanitation: assessing costs and effectiveness of excreta management in Cap Haitien, Haiti.” *Environment and Urbanization*. Vol 27 No 1, pp. 89-104.
- 2014 J. Ho, **K. Russel** and J. Davis. 2014. “Evaluating the efficacy of Euclidean distance and self-reported travel time as proxies for water fetching distance.” *Journal of Water and Health*. Vol 12 No 1 pp 173–183 doi:10.2166/wh.2013.042.
- 2011 V. Zuin, L. Ortolano, M. Alvarinho, **K. Russel**, A. Thebo, O. Muximpua, and J. Davis. 2011. “Water resale to neighbors in Maputo, Mozambique: costs, service quality, and user satisfaction.” *Journal of Water and Health*, Vol. 9, No. 4, pp. 773-784. doi:10.2166/wh.2011.031.

POLICY REPORTS, BOOK CHAPTERS AND OTHER PUBLICATIONS

- 2021 **K. Russel**. 2021. “Book Review: Routledge Handbook of Water and Health.” *Water Economics and Policy*, 7(1), 2080003. DOI: 10.1142/S2382624X2080003X
- 2020 **Russel, K.** and Montgomery, I. Container-Based Sanitation Implementation Guide 1st Edition. Container-Based Sanitation Alliance, London, UK. 2020. (https://cbsa.global/wp-content/uploads/2020/11/CBSA-implementation-guide-1st-edition_compressed.pdf)
- 2014 Hall, R., Davis, J., Van Houweling, E., Vance, E. A., Carzolio, M., Seiss, M., and **Russel, K.** 2014. "Impact evaluation of the Mozambique rural water supply activity." *Millennium Challenge Corporation, United States of America*. pp. 1–120. Retrieved from <http://data.mcc.gov/evaluations/index.php/catalog/76/study-description>.
- 2012 **K. Russel** and N. Cariello. 2012. “Every drop counts: rural water and sanitation in sub-Saharan Africa.” *SAUTI: Stanford Journal of African Studies*, Volume VIII: pp. 15-17. 2011-2012.

CONFERENCE PRESENTATIONS AND POSTERS

- 2021 APRU Sustainable Cities and Landscapes Live Webinar Series. *Session 3: Urban Sanitation and the Sustainable Development Goals: The Role of Container-Based Sanitation*. Sept. 13.
- 2021 Rich Earth Institute Summit 2021. Online (Battleboro, Vermont). *Speaker for Session: Global Partnerships for Urine Reclamation*. <http://richearthinstitute.org/global-partnerships-for-urine-reclamation/>
- 2021 World Water Week 2021. Online (Stockholm, Sweden). *Speaker in Session: Catalyzing sustainable futures for sanitation? Innovative financing and planning tools*. August 26.

- 2021 Colorado WASH Symposium. *Speaker for Session: The Future of Container-Based Sanitation: Innovative, Cost Effective, and Climate Positive*. Boulder, Colorado. March 11 – 12.
- 2020 APRU Sustainable Cities and Landscapes Conference 2020. New Zealand. *The Future of Wastewater and Sanitation Working Group Leader*. December 14-18.
- 2020 Making Do Conference. Virtual Symposium. *Reversing the Flow: Global South to Global North Knowledge Transfer*. November 20.
- 2020 Water and Health Conference: Where Science Meets Policy. University of North Carolina. Virtual Poster. *Calculating the Climate Change Mitigation Potential of Container-based Sanitation Systems*. October 27.
- 2020 Rich Earth Institute Summit. Online (Battleboro, Vermont). *Speaker and Moderator for Session: Container based sanitation alliance notes from the field*. September 16.
- 2020 World Water Week 2020. Online (Stockholm, Sweden). *Speaker in Session: Convergence of sanitation and climate crises. Break-out session 1: Using Emissions Data*. August 24.
- 2020 Institute for Health and the Built Environment. Building Health: Environmental. Designed. Determinants. Virtual Symposium. *Speaker for Session: Housing Determinants – Water reuse and Container-based sanitation*. May 14.
- 2019 Toilet Board Coalition, Global Sanitation Economy Summit. Pune, India. *Speaker for Session: Climate change and sanitation*. November 18 – 21.
- 2019 Container-Based Sanitation Alliance Session at World Water Week 2019. Stockholm, Sweden. *Speaker and Moderator for Session: Container based sanitation: Affordable and innovative services for all*. August 25 – 30.
- 2019 Council of Educators in Landscape Architecture (CELA) 2019 Conference: Engaged Scholarship Panel. *Landscape for Humanity: New design pedagogies for critical landscape engagement*. Sacramento, California. March 8.
- 2019 Combined AfricaSan5 and Fifth International Fecal Sludge Management (FSM5) Conferences. Cape Town, South Africa. *Speaker in several sessions including: 1) Container Based Systems and Capacity Building. 2) Private Sector Dialogue: Promoting the Enabling Environment for Non-sewered Sanitation. 3) Monitoring and Using Evidence to Improve Hygiene and Sanitation: Accelerating Sanitation Access Through Mobile IT. 4) Achieving Urban Equality Workshop: The Potential of CBS for Realizing the Human Right to Sanitation in Urban Settings*. February 18-22.
- 2018 APRU Sustainable Cities and Landscapes Conference 2018. Hong Kong, China. *The Future of Wastewater and Sanitation Working Group Leader*. September 6 – 9.
- 2018 Container-Based Sanitation Alliance Session at World Water Week 2018. Stockholm, Sweden. *Speaker and Moderator for Session: Container based sanitation and the sanitation economy*. August 26 – September 31.
- 2018 University of Oregon 24th Hopes Conference. *Panel Member, UnTraditional: Ad-Hoc Principles for Design and Sustainability*. Eugene, Oregon. April 13.
- 2018 Healthy Places, Healthy People, Portland Design Symposium, Oregon ASLA. Portland, Oregon. *Rethinking Wastewater: Recapturing Resources and Creating Urban Green Space*. April 7.

- 2018 CU WASH Symposium 2018. Boulder, Colorado. *Speaker and Moderator for Session: Container Based Sanitation: A Revolution for Urban Sanitation*. March 7.
- 2017 The Bill and Melinda Gates Foundation User Centered Design for Sanitation Convening. Seattle, Washington. *Poster on re.source sanitation work*. September 25 – 28.
- 2017 APRU Sustainable Cities and Landscapes Conference 2017. Portland, Oregon. *The Future of Wastewater and Sanitation Working Group Leader*. September 15 – 17.
- 2017 Sanitation Community of Practice (SanCop) 19. University College, London. *Container-Based Sanitation Alliance and Sanitation Safety Planning*. April 6.
- 2016 Global Toilet Business, Innovation & Investment Summit. Mumbai, India. *Co-facilitator for Container Toilet Meeting*. November 17.
- 2016 Association of American Geographers Annual Meeting. San Francisco. *Expanding sanitation services: Impacts of a container-based, household toilet and human waste collection service in a dense urban slum of Cap Haitien, Haiti*. April 1.
- 2015 Water and Health Conference: Where Science Meets Policy. University of North Carolina. *Does the installation of improved water sources impact the burden of water fetching? Results from Nampula, Mozambique*. October 27.
- 2015 Third International Fecal Sludge Management (FSM3) Conference. Hanoi, Vietnam. *Impacts of a container-based household toilet and waste collection service in Cap Haitien, Haiti*. January 20.
- 2014 Water and Health Conference: Where Science Meets Policy. University of North Carolina. *Impacts of a container-based household toilet and waste collection service in Cap Haitien, Haiti*. October 16.
- 2013 International Water, Sanitation & Hygiene Symposium. Stanford University. *re.source: Piloting a low cost container-based household sanitation service*. May 17.
- 2011 International Water, Sanitation & Hygiene Symposium. Stanford University. *Measurement and modeling of water fetching energy expenditure*. April 15.
- 2011 Chi Crossroads Conference, The Woods Institute for the Environment. Stanford University. *FIB and nitrate contamination of water supplied by SSIPs and the water utility in Maputo, Mozambique*. January 14.
- 2005 Taylor University Scientific Poster Symposium. *Dialectic variations of the female hiccup call amongst sub-populations of the Florida Scrub Jay*.

HONORS, FELLOWSHIPS, AWARDS, AND GRANTS

- 2021 Faculty Research Award from the Office of the Vice President for Research and Innovation, University of Oregon
- 2021 I3 Award from the Office of the Vice President for Research and Innovation, University of Oregon

- 2020 Economic and Social Research Council (ESRC) Global Challenges Research Fund (GCRF), Rethinking the off-grid city grant. (International Co-PI).
- 2019 ASLA Student Award of Excellence for Residential Design: Codesigning Green Sanitation Infrastructure: A Framework for Informal Settlements (Faculty Advisor)
- 2019 UO Foundation's Trustee Excellence Fund, University of Oregon
- 2019 Town and Gown Sustainability Award, University of Oregon
- 2019 United States Environmental Protection Agency Phase 1 P3 Award (Faculty Advisor and grant PI)
- 2019 EPA P3 Student Team won the best design from both the Society of Civil Engineers and the Institute for Chemical Engineers at the 2019 TechConnect Expo in Boston (Faculty Advisor and grant PI)
- 2018 School of Architecture and Environment Faculty Design Research/Creative Practice Award 2018, University of Oregon
- 2017 Sustainability Faculty Fellowship 2017, University of Oregon
- 2017 Faculty Research Award from the Office of the Vice President for Research and Innovation, University of Oregon
- 2015 Rising Environmental Leaders Program, Wood Institute for the Environment, Stanford University
- 2014 United States Environmental Protection Agency Phase 1 P3 Award (re.source)
- 2014 Charles H. Leavell Graduate Student Fellowship, Stanford University
- 2014 Social Entrepreneurship Scholarship, SOCAP 2014
- 2013 Showcase of Solutions for Planetary Sustainability – Winner: Outstanding Overall Solution (re.source), Sustainable Silicone Valley
- 2013 Stanford Institute for Innovation in Developing Economies (SEED) Design Lab Grant (re.source), Stanford University
- 2012 The Woods Institute for the Environment Mel Lane Grant (re.source), Stanford University
- 2013 Haas Center Graduate of Public Service (GPS) Fellowship, Stanford University
- 2011-2014 United States Environmental Protection Agency STAR Fellowship
- 2011-2013 Bill and Melinda Gates Foundation Grand Challenge Exploration Round 6 Grant
- 2011 NSF Graduate Research Fellowship Honorable Mention
- 2011 Rotary District Scholar Fellowship
- 2011 Center for African Studies Summer Fellowship, Stanford University

2010 Center for Latin American Studies FLAS Fellowship, Stanford University

2009 Polhemus Fellowship, Stanford University

2003-2005 Graduate Fellowship, Taylor University

RESEARCH EXPERIENCE AND FIELD WORK

2020-current International Co-Principal Investigator, ESRC GCRF - Rethinking off-grid cities Grant. Lima, Peru; Cap-Haitien, Haiti; Cape Town, South Africa; Naivasha and Nairobi, Kenya. In collaboration with Cranfield University.

2019-current Co-Principal Investigator, Climate-Positive Sanitation: A Greenhouse Gas Emission Calculator for CBS and traditional systems. Cap-Haitien, Haiti; Antananarivo, Madagascar; Naivasha and Nairobi, Kenya. CBSA and WSSCC funded research.

2019-current Co-Principal Investigator, Landscape for Humanity. Eugene, Oregon. In collaboration with Opportunity Village Eugene.

2019-current Core Team Member, Open Home Project. Eugene, Oregon.

2017-current Principal Investigator, Creation of green space in informal settlements utilizing compost from human waste. Lima, Peru. University of Oregon in collaboration with x-runner.

2019-2022 Co-Principal Investigator, Sustainable Sanitation and Customer Attrition. Cap-Haitien, Haiti. In collaboration with SOIL.

2018-2020 Co-Principal Investigator, Comparing Sustainable Sanitation Choices: A cost effectiveness analysis of CBS and traditional systems. Lima, Peru; Cap-Haitien, Haiti; Kumasi, Ghana; Antananarivo, Madagascar; Naivasha and Nairobi, Kenya. CBSA research.

2014-2015 Lead Researcher, Measurement and modeling of human energy expenditure as it relates to rural women water fetchers. Nampula, Mozambique. Stanford University in collaboration with Lúrio University, Mozambique.

- Designed and led enumerator training, data collection, and data analysis of water fetching activities in rural communities and laboratory settings.

2010-2014 Research Assistant, Impact evaluation of Millennium Challenge Corporation-sponsored Rural Water Supply Activity Investment. Nampula Province, Mozambique. Stanford University in collaboration with Virginia Tech University.

- Supported household and water sampling survey development and coding onto personal digital assistants.
- Designed and led enumerator training, data collection, and data analysis of water quality testing activities. All activities performed at baseline (~1600 households) and endline (~1800 households) data collection time periods.

2012-2014 Co-lead Researcher, Impact evaluation of mobile integrated sanitation service, implemented in a dense urban settlement. Cap-Haitien, Haiti. Stanford University.

- Supported household and water sampling survey development and coding onto personal digital assistants.

- Designed and led enumerator training, data collection, and data analysis of household survey and water quality activities. All activities performed at baseline (~450 households) and endline (~450 households) data collection time periods.

- 2010 Research Assistant, Baseline evaluation of water resale practices and policy formalization. Maputo, Mozambique. Stanford University.
- Supported household and water sampling survey development and coding onto personal digital assistants.
- Designed and led enumerator training, data collection, and data analysis of water quality activities. All activities performed at baseline (~1800 households) data collection time period.
- 2009 Research Assistant, Rural Water Systems Sustainability Study Kenya. Stanford University.
- 2004-2005 Principal Investigator, Dialectic variations of the female hiccup call amongst sub-populations of the Florida Scrub Jay. Dr. Jan Reber, Taylor University.
- 2003-2004 Research Assistant, Grant County Resident Environmental Concern Telephone Survey. Taylor University.
- 2003-2004 Research Assistant, Indiana Streams Sediment Load Project. Taylor University.

PROFESSIONAL EXPERIENCE

- 2022-present SOIL, Advisory Board Member (www.toiletboard.org/about).
- 2020-present Toilet Board Coalition, Partnership Council Member (www.toiletboard.org/about).
- 2019-present Co-founder, Landscape for Humanity (L4H) Lab (www.landscape4humanity.org).
Using landscape as the fundamental framework for creating spatial changes that support social and environmental justice.
- 2016-present Chair, Container-Based Sanitation Alliance. Spearheading formation, outreach and research activities to be undertaken through the alliance and its funders. The CBSA consists of organizations located in Peru, Haiti, Ghana, Kenya, India, Madagascar and the UK.
- 2012-present Co-founder, re.source sanitation research initiative (www.resourcesanitation.com).
Student-focused research initiative working on solutions for urban sanitation in low-income settings.
- 2015-2016 Research Assistant, School of Humanities and Sciences Departmental Academic Experience Survey. Stanford University.
- Edited, administered and reported surveys concerning student academic experiences
- 2009 Experimental Biology Aide, Oregon Department of Fish and Wildlife. Roseburg, Oregon.
- Classified waterways and collected data on personal digital assistants (PDAs) for the Oregon aquatic inventory survey of streams.

TEACHING AND MENTORING EXPERIENCE

- 2020 Mentor, Leapfrog Design, Innovation Corps Program, SBIR Cohort. National Science Foundation.
- August – September 2020.

- 2020-22 Professor, Certifying Sustainability. Landscape Architecture. University of Oregon.
- Designed, taught, and evaluated course.
- 2017-22 Professor, Water, Sanitation, and the Environment. Environmental Studies. University of Oregon.
- Designed, taught, and evaluated course.
- 2017-21 Professor, Design for a Sustainable World. Landscape Architecture. University of Oregon.
- Designed, taught, and evaluated course.
- 2018-21 Professor, Intro to Environmental Science. Environmental Studies. University of Oregon.
- Taught and evaluated course.
- 2017-19 Professor, Sustainable Principles and Practices. Landscape Architecture. University of Oregon.
- Designed, taught, and evaluated course.
- 2017 Professor, Tech Workshop in Water, Sanitation and Health. Landscape Architecture. University of Oregon.
- Designed, taught, and evaluated course.
- 2016, 2014 Teaching Associate, Design for a Sustainable World. Dr. Bill Mitch and Dr. Jenna Davis. Stanford University.
- Designed course content, led class sessions, responsible for student evaluation.
- Supervised and mentored 25 and 36 students.
- 2016, 2014 Teaching Associate, Current Topics in Sustainable Engineering. Dr. Bill Mitch and Dr. Jenna Davis. Stanford University.
- Designed course content, led class sessions, responsible for student evaluation.
- Supervised and mentored 25 and 36 students.
- 2015 Teaching Assistant, Water, Public Health and Engineering. Dr. Jenna Davis. Stanford University.
- Updated course content, held weekly office hours, substituted for primary lecturer when needed, graded course assignments.
- Supervised and mentored 16 students.
- 2012 Teaching Assistant, Water and Sanitation in Developing Countries. Spring Quarter. Dr. Jenna Davis. Stanford University.
- Updated course content, held weekly office hours, substituted for primary lecturer when needed, graded course assignments. Supervised and mentored 24 students.
- 2010 Guest Lecturer, Water and Sanitation in Developing Countries Undergraduate Course. Spring Quarter. Dr. Jenna Davis. Stanford University.
- 2009 Substitute Teacher, Douglas County School District. Oregon.
- Taught K-12 in 8 different schools for six months (5-40 students per class).
- 2005-2007 Peace Corp Education Volunteer, Mozambique, Southern Africa.
- Taught secondary school classes in biology (all classes taught in Portuguese) and wrote multiple education resource manuals in English and Portuguese (60-80 students per class).
- 2004-2005 Teaching Assistant, Introduction to Geology. Dr. Micheal Guebert. Taylor University.
- Taught weekly lab sessions, substituted for primary lecturer when needed, held weekly office hours, graded course assignments and assisted in field outings (45 students per class).

PUBLIC MEDIA AND REPORTS FEATURING CONTRIBUTIONS

- 2021 *Are bidets really better for the planet than toilet paper?* Sarah Kiley Watson. Popular Science (<https://www.popsoci.com/environment/bidets-vs-toilet-paper/>)
- 2021 The 2021 Faculty Research Awards go to 12 UO scholars. (<https://around.uoregon.edu/content/2021-faculty-research-awards-go-12-uo-scholars>)
- 2021 I3 seed funding program awards grants to four research teams. (<https://around.uoregon.edu/content/i3-seed-funding-program-awards-grants-four-research-teams>)
- 2019 World Bank. 2019. “*Evaluating the Potential of Container Based Sanitation.*” World Bank, Washington, DC (https://www.asla.org/2019studentawards/686577_Codesigning_Green_Sanitation_Infrastructure_A_Framework_For_Informal_Settlements.html)
- 2019 *Codesigning Green Sanitation Infrastructure: A Framework for Informal Settlements.* 2019 ASLA Student Awards. (https://www.asla.org/2019studentawards/686577_Codesigning_Green_Sanitation_Infrastructure_A_Framework_For_Informal_Settlements.html)
- 2019 National Science Foundation (NSF) *Landscape Carbon Sequestration for Atmospheric Recovery White Paper: A Perspective on Convergence to Accelerate Carbon Sequestration.* University of Oregon, Eugene, Oregon. [Silva LCR, Wood M, Johnson B, Bomfim B, Coughlan M, Smith M, Brinton H, Bridgham S, and McGuire K (eds.)] 2019.
- 2019 *Ko, Abelman, and Russel Win 2019 University of Oregon Sustainability Award for Town & Gown.* University of Oregon, Office of Sustainability. (https://www.youtube.com/watch?v=eLBAct_V2vQ&feature=youtu.be)
- 2018 *Landscape Architecture Students Clean Up in EPA Design Competition.* UO School of Architecture & Environment. (<https://archenvironment.uoregon.edu/landscape-architecture-students-clean-epa-design-competition>)
- 2018 *Rethinking Human Waste.* Traveling Smithsonian Exhibition “H2O Today,” University of Oregon’s Museum of Natural and Cultural History. (<https://www.youtube.com/watch?v=v14pUmpmW1o&t=1s>)
- 2018 K. Russel, A. Oko-Williams, and L. Diaz. “With Elephant, Rider, Path, behavior change isn’t rocket science.” UCD in Sanitation, The Bill and Melinda Gates Foundation. (<http://ucdinsanitation.com/with-elephant-rider-path-behavior-change-isnt-rocket-science/>)
- 2016 *You’re Tuned to CBS: SOIL’s Sasha Kramer, Kory Russel, and Container Based Sanitation.* SHHH Podcast. June 23, 2016. (<http://www.podcasts.com/shhh-77/episode/youre-tuned-to-cbs-soils-sasha-kramer-kory-russel-and-container-based-sanitation>)
- 2015 *Sanitation: When Toilets Fly.* March 16, 2015. (<https://woods.stanford.edu/news-events/news/water-solutions-when-toilets-fly>)
- 2014 *Sanitation solution for urban slums gets national recognition.* The Dish. Oct 4, 2014. (<http://news.stanford.edu/thedish/2014/10/21/sanitation-solution-for-urban-slums-gets-national-recognition/>)

- 2014 *Dry toilets are a thing that might save the world.* Collectively.org. Nov 7, 2014.
(<https://collectively.org/en/article/dry-toilets-are-a-thing-that-might-save-the-world>)
- 2014 re.source sanitation work featured in; *Designing the Next Generation of Sanitation Businesses: A Report by Hystra for the Toilet Board Coalition.* September 2014.
(http://static.squarespace.com/static/51bef39fe4b010d205f84a92/t/54073979e4b0cd91b7e776e4/1409759609026/HystraSanitation_122pp_Web.pdf)
- 2014 re.source sanitation work featured in; *A Collection of Contemporary Toilet Designs.* EOOS and WEDC, Loughborough University. 2014, (<http://wedc.lboro.ac.uk/knowledge/>) ISBN: 978 1 84380 155 9
- 2013 Third Sanitation Experts Webinar, "*Innovative Sanitation Solutions for Urban Areas,*" SuSanA Forum.
(<http://forum.susana.org/forum/categories/139-general-information-and-announcements/5624-5th-webinar-on-21-january-2014-sanitation-webinars-with-bmgf-grantees-organised-by-stockholm-environment-institute>)
- 2013 *Sanitation project wins kudos from sustainability leaders.* The Dish. June 4, 2013.
(<http://news.stanford.edu/thedish/2013/06/04/sanitation-project-wins-kudos-from-sustainability-leaders/>)

SERVICE

- 2019 Container-Based Sanitation Alliance Meeting at FSM5 2019. Cape Town, South Africa. *Co-facilitator for CBSA Meeting.* February 16-18.
- 2018 Container-Based Sanitation Alliance Meeting at World Water Week 2018. Stockholm, Sweden. *Co-facilitator for CBSA Meeting.* August 26 – September 31.
- 2017 Container-Based Sanitation Alliance Meeting at World Water Week 2017. Stockholm, Sweden. *Co-facilitator for CBSA Meeting.* August 30 – September 1.
- 2014-2016 Advisor and instructor for international development projects, Engineers for a Sustainable World, Stanford University.
- 2011-2013 Speaker, twelve club speaking tour of Rotary District 5170, Rotary District Scholar, California.
- 2011 Panel Member, Civil and Environmental Engineering Graduate Fellowship Writing Seminar, Stanford University.
- 2010-2011 Graduate Student Co-Coordinator, Stanford Civil and Environmental Engineering Lecture Series. Stanford University.
- 2007-2008 Peace Corp Volunteer Leader for Project Development, Mozambique, Southern Africa.
- 2005-2008 Founding Member, Peer Support Network. United States Peace Corps, Mozambique.
- 2005-2007 Peace Corp Education Volunteer, Mozambique, Southern Africa.
- Taught secondary school classes in Biology (all classes taught in Portuguese)
- 2003-2005 President, Stewards of Creation: Environmental Club, Taylor University.

LANGUAGES

English: first language

Portuguese: fluent, written and spoken

Spanish: proficient, written and spoken