

EMILY VAN HOUWELING

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CURRENT POSITION

Assistant Professor. Masters of International Development Practice. Regis University.
Denver, CO. Start date: Aug. 2017-present

PREVIOUS WORK AND RESEARCH EXPERIENCE

Visiting Assistant Professor of International Development. Denver, CO. Sept. 2015-June 2017.

At the Josef Korbel School of International Studies, at the University of Denver, I taught courses on International Development at the graduate and undergraduate level. I also created and co-led a three week study abroad course that explored water, sanitation and hygiene (WASH) issues in Malawi through applied research, field trips, small group activities, and classroom lectures.

Associate Director, Women and Gender in International Development. Blacksburg, VA. Aug. 2013-Aug 2015.

I was a research scientist in the Office of International Research, Education and Development (OIRE) at Virginia Tech. In this position, I provided leadership to ensure that all projects and programs were gender sensitive and addressed the needs of the most disadvantaged groups. My work involved building the capacity of project partners to address gender disparities and conducting research on gender issues in the areas of agriculture, climate change, food security, nutrition, and water. This position demanded extensive travel and project management skills. During my time at OIRE we managed a grant portfolio of over \$92 million and worked in more than 40 countries around the globe.

Ph.D. research, Water and gender in Mozambique. Nampula, Mozambique. July 2010-June 2012.

My dissertation research explored the social and gender related impacts of a rural water supply project in Nampula, Mozambique. In five rural communities, I analyzed how men's and women's lives changed when they transitioned from open, distant wells to hand-pumps. To understand local perceptions of change, I conducted household interviews, focus groups, participant observation, and participatory mapping exercises. My dissertation includes recommendations for designing water projects that are more inclusive, gender sensitive, and sustainable. This research was funded by an IIE Fulbright grant and involved 14 months of fieldwork in Mozambique.

Lead consultant, Solar water system assessment. Cabo Delgado, Mozambique. July 2013.

I conducted a performance evaluation of eight small piped solar systems installed by the Millennium Challenge Corporation in Cabo Delgado, Mozambique. The assessment focused on the technical, financial, and management aspects of the systems. It involved focus groups with water users and interviews with technicians, community leaders, and government officials. The report includes recommendations to improve the sustainability of the systems.

Researcher, Rural water impact evaluation. Nampula, Mozambique. May 2010 – July 2013.

Over a period of three years, I worked with a Stanford/Virginia Tech team to evaluate the household impacts of a Millennium Challenge Corporation (MCC) rural water project in Nampula, Mozambique. The research was carried out before and after the water project and consisted of 1,600 household surveys, water quality testing, and interviews with community leaders and water committees. My role in the project was to lead the field work, train enumerators, design the water committee surveys, analyze data, and write reports.

Researcher, Multiple use water services research. Rural Senegal. May-July 2009.

I was a member of a Virginia Tech/Stanford/Oxford research team that conducted a three-country research project analyzing multiple use water services (MUS). The research project, funded by the Water and Sanitation Program (WSP) of the World Bank, aimed to understand the links between productive use of domestic water, poverty reduction, and sustainability. In Senegal, I trained enumerators, developed a household survey, and supervised field research. I was specifically responsible for creating the women's focus group research instrument. We completed 1,800 household surveys, 47 engineering assessments, 15 focus groups, 500 choice card experiments, and interviews with the leaders, water committees and water system operators in 47 communities. Upon returning from Senegal, I was involved in the data analysis and report writing for this research.

Masters thesis research, Rural livelihoods in Mali. Segou, Mali. 2006-2008.

My masters thesis research explored the livelihood diversification strategies of men and women in rural Mali under conditions of declining agricultural productivity and climate change. This research, completed over a two year period in the local language of Bambara, involved 121 household surveys, 168 individual surveys, 12 focus group exercises, and numerous key interviews. My findings suggest specific bundles of assets that open up opportunities for men and women to enhance and improve their livelihoods.

Peace Corps volunteer, Water and sanitation specialist. Segou, Mali. 2006-2008.

I served as a Peace Corps volunteer in a rural village outside of Segou for 27 months. During this time I organized a community water and sanitation group and conducted trainings on well improvements, latrine construction, and hygiene education. I also constructed four community gardens, which improved nutrition and provided income-generating opportunities for over 400 women. At the end of my service I led trainings for new volunteers.

TEACHING EXPERIENCE

- Food, water and energy nexus
- Introduction to international development
- Research and learning
- Participatory planning
- Water and sanitation in developing countries
- Politics of international development
- Experience WASH in Malawi
- Women, the environment and development

EDUCATION

Ph.D. Virginia Tech, Blacksburg, Virginia

Planning, Governance and Globalization, 2013

Dissertation: "Gender, water, and development; the Multiple perspectives and impacts of a rural water project in Northern Mozambique."

M.A Virginia Tech, Blacksburg, Virginia

Masters of Urban and Regional Planning, 2009

Thesis: "Diversification and differentiation; the Livelihood experience of men and women in Samene, Mali."

B.A Occidental College, Los Angeles, CA

Sociology, 2005

FUNDED RESEARCH

Co-PI: Indigenous and Western Science Perspectives of Environmental Issues on the Navajo Nation. Funded by a Posner International Collaboration grant. Field work on the Navajo Nation planned for the summer of 2019.

PI: Shallow Well Impact Evaluation. Funded by Marion Medical Mission. Field research completed in Malawi. 2016-2017.

PI: Applied learning and interdisciplinary water and sanitation research in Malawi. Funded by the Office of Internationalization at the University of Denver. Class and field research conducted in Malawi. 2016.

Co-PI: Visualizing Water Services for Community Decision Making. Funded by the Institute of Society, Culture and the Environment. Field research conducted in Burkina Faso. 2015-2016.

Co-Investigator: Integrated Pest Management. Funded by USAID. Field research conducted in Ghana. 2013-2015.

Co-Investigator: InnovATE. Funded by USAID. Field research conducted in the Democratic Republic of Congo and Mozambique. 2013-2015.

Co-Investigator: Sustainable Agriculture and Natural Resource Management. Funded by USAID. Field research conducted in Uganda. 2013-2014.

Graduate Student Researcher: Impact Evaluation of the Rural Water Supply Activity. Funded by the Millennium Challenge Corporation. Field research conducted in Mozambique. 2010-2013.

PI: Gender, water, and development; the Multiple perspectives and impacts of a rural water project in Northern Mozambique. Funded by IIE Fulbright grant. 2011-2012.

Graduate Student Researcher: Assessing the link between productive use of domestic water, poverty reduction, and sustainability in rural Senegal. Funded by the Water and Sanitation Program of the World Bank. 2009.

RESEARCH PAPERS

Published peer reviewed articles:

Van Houweling, E., Christie, M. E., & Rahim, A. 2018. Women's access and experience in higher education agricultural programs in Africa. *Gender and Education*, 1-19. 10.1080/09540253.2018.1495832

Van Houweling, Emily, Ralph Hall, Marcos Carzolio, and Eric Vance. 2016. "My neighbor drinks clean water while I continue to suffer"; An analysis of the intra-community impacts of a rural water project in Mozambique. *Journal of Development Studies*. Accepted July 15, 2016. Forthcoming. DOI: 10.1080/00220388.2016.1224852.

Himmelstein, Jennifer, Adrian Ares and Emily Van Houweling. 2016. "Sustainable intensification: A multi-faceted, systemic approach to international development." *Journal of the Science of Food and Agriculture*. Accepted June 2016. DOI: 10.1002/jsfa.7831

Van Houweling, Emily. 2016. "'A good wife brings her husband bath water': Gender roles and water practices in Nampula, Mozambique." *Society and Natural Resources*. 29(9): 1065-1078.

Hall, Ralph, Eric Vance, Emily Van Houweling, and Wandu Huang. 2015. "Willingness to pay for VIP latrines in rural Senegal." *Journal of Water, Sanitation and Hygiene for Development*. DOI: 10.2166/washdev.2015.053

Hall, Ralph, Eric Vance, and Emily Van Houweling. 2015. "Upgrading domestic-plus systems in rural Senegal; An incremental income-cost analysis" *Water Alternatives*. 8(3): 317-366.

Christie, Maria Elisa, Emily Van Houweling, and Laura Zselezcky. 2015. "Mapping gendered pest management knowledge, practices, and pesticide exposure pathways in Ghana and Mali." *Agriculture and Human Values*. 32(4): 761-775.

Van Houweling, Emily. 2014. "Gendered water spaces; A study of the transition from wells to handpumps in Mozambique." *Gender, Place and Culture; A Journal of Feminist Geography*. 22(10): 1391-1407.

Hall, Ralph, Eric Vance, Emily Van Houweling. 2014. "The productive use of rural piped water in Senegal." *Water Alternatives* 7(3): 480-498.

Hall, Ralph, Barbara van Koppen, and Emily Van Houweling. 2013. "The human right to water: The importance of domestic and productive water rights." *Science and Engineering Ethics*. Dec: 1-20.

Van Houweling, Emily, Ralph Hall, Aissatou Diop, Jenna Davis and Mark Seiss. 2012. "The role of productive water use in women's livelihoods: Evidence from rural Senegal." *Water Alternatives* 5(3): 304-323.

Peer reviewed reports:

Van Houweling, Emily, Renee, Botta, and Ralph Hall, et al. 2018. Marion Medical Mission Well Program Evaluation. Final Report. Submitted to Marion Medical Mission.

Hall, Ralph, Emily Van Houweling and Eric Vance, et.al. 2014. "Evaluation of eight small scale piped systems in Cabo Delgado, Mozambique." Final report. Submitted to the Millennium Challenge Corporation.

Hall, Ralph, Jenna Davis, Emily Van Houweling, et.al. 2014. "Impact evaluation of the rural water supply activity in Mozambique." Final report. Submitted to the Millennium Challenge Corporation.

Laura, Zselezcky, Emily Van Houweling and Maria Elisa Christie. 2013. "Preliminary study; Gender, higher education and AET." InnovATE. Virginia Tech.

Hall, Ralph, Emily Van Houweling, et al. 2010. "Assessing the link between productive use of domestic water, poverty reduction and sustainability." Senegal Country Report. Submitted to the World Bank.

Recent papers presented at conferences:

"Misinterpreting women's empowerment?: How a feminist postcolonial lens can reveal new dimensions of change in women's lives." Women and Gender in Development Conference Out of theory and into the Field. (Invited talk). Virginia Tech (2019).

"Misunderstanding women's empowerment: Critical insights about evaluation from a rural water project in Mozambique." Posner Center Symposium: Lessons in Collaboration. (Invited talk). Denver, Colorado (2019).

"A Good Wife Brings Her Husband Bath Water: Gender Roles and Water Practices in Nampula, Mozambique." African Studies Annual Meeting, Chicago (2017).

"Participatory mapping in the WASH sector." Rotary WASH Symposium, Denver (2017).

“Contested impacts of rural water supply programs.” (Invited talk). University of Wyoming. (2016).

“Mapping water resources: Possibilities for integrating participatory mapping, GIS and biophysical models.” (Session organizer and presenter). Association of American Geographers. San Francisco (2016).

Emotional Political Ecologies. (Panelist). Association of American Geographers. San Francisco (2016).

“Addressing gender issues in higher education agricultural programs; Evidence from Cambodia, Bangladesh, Mozambique and South Sudan.” Association for International Agricultural and Extension Education / European Seminar on Extension and Education. (Paper presentation). Wageningen University, the Netherlands (2015).

“My neighbor drinks clean water while I continue to suffer; An analysis of the intra-community impacts of a rural water project in Mozambique.” (Paper presentation). Dimensions of Political Ecology Conference. Lexington, KY (2015).

LANGUAGE ABILITIES

- Advanced Portuguese
- Advanced Bambara (a local language spoken in Mali)
- Elementary French

COUNTRIES OF WORK/RESEARCH EXPERIENCE

Mali, Mozambique, Senegal, Tanzania, Ghana, Uganda, Democratic Republic of Congo, Burkina Faso, Malawi