

EMILY VAN HOUWELING

Emily.VanHouweling@du.edu • University of Denver • 541-280-1628

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CURRENT POSITION

Visiting Assistant Professor. Denver, CO. Start date: Sept. 2015
Josef Korbel School of International Studies, University of Denver

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."

GPA: 3.96

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."

GPA: 3.94

B.A Occidental College, Los Angeles, CA

Sociology, 2005

PREVIOUS WORK AND RESEARCH EXPERIENCE

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, education, food security, nutrition, and water. This position demanded extensive travel and project management skills. OIRE manages a grant portfolio of over \$92 million and works 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

Instructor, Politics of International Development. Fall 2015. University of Denver.

This small graduate course examines the history, theory and practice of international development. It emphasizes the role of politics and power in the international development arena. Through lectures, readings, films, and group discussions, we explore a range of development perspectives from policy to practice, global to grassroots. A principal goal of the class is to critically examine an array of theories and approaches to development and thoughtfully engage with what it means to be an ethical and effective practitioner in this arena.

Instructor, Women, the Environment and Development. Fall 2014, Spring 2011. Virginia Tech.

This undergraduate class introduces key concepts and critiques related to the intersection of gender, the environment and development. It considers these from both theoretical and applied perspectives, looking at case studies in Africa, Asia and Latin America. Topics include critical development theory, feminist critiques of science, feminist political ecology, agriculture and natural resources, and participation and empowerment.

Instructor, International Development; Policy and Planning. Fall 2012, Fall 2010. Virginia Tech.

This large interdisciplinary course examines the history, theory and practice of international development with an emphasis on low-income regions in the Global South. The class encourages students to consider issues and challenges facing low-income societies at both macro and micro levels. The class was offered to both graduate and undergraduate students.

Course development, Advanced International Development. Fall 2012. Virginia Tech.

I developed a graduate version of the previously mixed undergraduate and graduate International Development class. This involved selecting more advanced readings, constructing new assignments, and redesigning the syllabus.

Teaching assistant, "Water and Sanitation in Developing Countries." Spring 2009. Virginia Tech.

As the teaching assistant I managed the course online, graded assignments, and helped select course readings. I also delivered two lectures during the semester.

Invited Lectures. Virginia Tech. 2008-current.

I have given invited lectures in the following classes: Water and Sanitation in Developing Countries, Community Involvement in Planning, International Development Planning Studio, and Development and Humanitarianism in Africa.

ACADEMIC AWARDS AND HONORS AND GRANTS

- Richard E. Zody Award for Outstanding Dissertation in Planning, Governance, and Globalization. 2014.
- Honorable Mention, Outstanding Dissertation, Virginia Tech. 2014 (University wide).
- Women's Studies Graduate Certificate, Virginia Tech. 2010.
- James Brown Prize, Best Graduate Paper, Southeast Regional Seminar on African Studies. 2009.
- Phi Beta Delta International Honor Society, Virginia Tech. 2008-2013.
- Brenda Crawford Award for public service and social justice, Virginia Tech. 2009.
- International Development Research Graduate Certificate, Virginia Tech. 2009.
- Magna Cum Laude, Occidental College. 2005.
- Most Outstanding Graduating Sociology Student, Occidental College. 2005.

GRANTS

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-present.

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

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

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.

Co-Investigator: 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, Emily. 2015. "A good wife brings her husband bath water: Gender roles and water practices in Nampula, Mozambique." *Society and Natural Resources*. Accepted, forthcoming.

Hall, Ralph, Eric Vance, and Emily Van Houweling. "Can water pay for water? Evidence from rural Senegal." *Water Alternatives*. 8(3): 317-366.

Christie, Maria Elisa, Emily Van Houweling, and Laura Zselezky. 2015. "Mapping gendered pest management knowledge, practices, and pesticide exposure pathways in Ghana and Mali." *Agriculture and Human Values*. Accepted, forthcoming. <http://link.springer.com/article/10.1007%2Fs10460-015-9590-2>

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.

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.

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.

Submitted peer reviewed articles:

Jennifer Himmelstein, Adrian Ares, and Emily Van Houweling. "Sustainable intensification: A multifaceted, systemic approach to international development." *Journal of the Science of Food and Agriculture*. Submitted in April 2015.

Hall, Ralph, Eric Vance, Emily Van Houweling, and Wandu Huang. "Willingness to pay for VIP latrines in rural Senegal." *Journal of Water, Sanitation and Hygiene for Development*. Submitted in March 2015.

Van Houweling, Emily. "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*. Submitted in March 2015.

Peer reviewed reports:

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, Zselezky, 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.

Papers presented at conferences:

“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. 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.” Dimensions of Political Ecology Conference. Lexington, KY (2015).

“Good practices for addressing gender issues and encouraging women in the agricultural sciences.” Regional Universities Forum for Capacity Building in Agriculture (RUFORUM). Maputo, Mozambique. (Workshop organizer) (2014).

"Gendered water spaces; An ethnographic study of the transition from wells to hand pumps in Nampula, Mozambique." Gender, Water and Development Conference. East London, South Africa (2014).

The household level impacts of the rural water supply activity in Mozambique.” Impact evaluation workshop. Millennium Challenge Corporation. Washington (2014).

“Beyond the demand responsive approach: Clues about rural water sustainability in Mozambique.” Water and Health conference. University of North Carolina (2013).

“Whose perspective matters? The Contested impacts of a rural water project in Nampula, Mozambique. Office of International, Research, Education and Development at Virginia Tech. Blacksburg, VA (2013).

"Gendered social interactions and women's space; An ethnographic study of the transition from wells to hand pumps in Nampula, Mozambique." African Studies Association. Philadelphia, PA (2012).

"Gendered social interactions and women's space; An ethnographic study of the transition from wells to hand pumps in Nampula, Mozambique." Delivered in Portuguese. University of Eduardo Mondlane, Anthropology seminar. Maputo, Mozambique (2012).

"Baseline results from the rural water project in Nampula." Millennium Challenge Account-Mozambique. Maputo, Mozambique (2011).

"Women and water projects; Empowerment or development as usual?" Office of International, Research, Education and Development at Virginia Tech. Blacksburg, VA (2011).

“Women’s empowerment and water projects: a Critical exploration of the connection.” Dimensions of Political Ecology Conference. Lexington, KY (2011).

“Women in the water sector: A critique of common assumptions from a gender perspective.” Stanford University (2010).

“Rural water use in Senegal: A framework for understanding the hydro-social cycle.” Association of American Geographers. Washington D.C (2010).

“Diversification and differentiation; the Livelihood experience of men and women in Samene.” Office of International, Research, Education and Development at Virginia Tech. Blacksburg, VA (2009).

LANGUAGE ABILITIES

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

COUNTRIES OF WORK/RESEARCH EXPERIENCE

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