

Jenna Davis
Associate Professor, Department of Civil & Environmental Engineering
Higgins-Magid Senior Fellow, Woods Institute for the Environment
Stanford University

473 Via Ortega, MC 4020
Stanford, California 94305 USA
jennadavis.stanford.edu

Academic History

Doctor of Philosophy, Environmental Management and Policy
Department of Environmental Sciences and Engineering
University of North Carolina at Chapel Hill

Master of Science in Public Health
Department of Environmental Sciences and Engineering
University of North Carolina at Chapel Hill, North Carolina

Bachelor of Arts and Sciences (Plan II Honors Program)
University of Texas at Austin, Texas

Employment History

- 2010- Assistant Professor, Department of Civil & Environmental Engineering, Higgins-Magid Fellow, Woods Institute for the Environment, Stanford University.
- 2006-2010 Assistant Professor, Department of Civil & Environmental Engineering, Fellow, Woods Institute for the Environment, Stanford University.
- 2005-2006 Consultant, Independent Contracting, and Analyst for Research Triangle Institute, North Carolina; CHF International, Maryland; the World Bank, Washington, DC; the Water & Sanitation Program, Washington, DC. Design and execute applied research projects or carried out statistical analyses/modeling on existing datasets. Assignments dealt with the water supply and sanitation (W&S) sector in developing countries.
- 2002-2004 Visiting Assistant Professor, Stanford University Department of Civil and Environmental Engineering.
- 1998- 2004 Assistant Professor, Massachusetts Institute of Technology Department of Urban Studies and Planning. Appointment to the International Development & Regional Planning and Environmental Policy groups. Recipient of the Ford Professional Development Chair. During the period September 1998 - September 2004, Davis had an equivalent of 2.5 years' leave from MIT.

1995-1998 Consultant, Independent Contracting, and Analyst for Research Triangle Institute, North Carolina; CHF International, Maryland; the World Bank, Washington, DC; the Water & Sanitation Program, Washington, DC.

Awards and Honors

2010 Higgins-Magid Fellow, Stanford University

2009 Finalist, Water for All Competition, Suez Environnement Foundation

2009-2010 Clayman Institute Faculty Fellow, Clayman Institute for Gender Research, Stanford University

2007 Eugene L. Grant Teaching Award, Stanford University

2006 Irwin Sizer Award for the Most Significant Improvement to MIT Education

2005 MIT IDEAS award (supporting “innovative projects with the potential to make a positive change in the world”).

2005 Research Award, Mellon-MIT Program on NGOs and Forced Migration

2005 Service Learning Award, MIT Public Service Center

2001 Salzburg Fellow, Salzburg Seminar, Austria

1998-2002 Ford Professional Development Chair, Massachusetts Institute of Technology

1996-1998 Office of Research and Development STAR Fellow, United States Environmental Protection Agency

Selected Scholarly Publications

1. Amy J. Pickering, Jennifer Davis, **Annalise G. Blum**, **Jenna Scalmanini**, Beryl Oyier, George Okoth, Robert F. Breiman, Pavani K. Ram. 2013. Access to waterless hand sanitizer improves student hand hygiene behavior among primary schools in Nairobi, Kenya. *American Journal of Tropical Medicine & Hygiene* 89(3): 411-418. doi: 10.4269/ajtmh.13-0008.
2. M. Mattioli, A.B. Boehm, J. Davis; A. Harris, M. Mrisho, and A.J. Pickering. 2013. Enteric pathogens in stored drinking water and on caregiver's hands in Tanzanian households with and without reported cases of child diarrhea. *PLOS One* 9(1): e84939. doi:10.1371/journal.pone.0084939.

3. A. R. Harris, J. Davis, A. B. Boehm. 2013. Mechanisms of post-supply contamination of drinking water in Bagamoyo, Tanzania. *Journal of Water & Health* 11(3):543-54. doi: 10.2166/wh.2013.023
4. J. Laramée and J. Davis. 2013. "Socioeconomic and environmental impacts of domestic bio-digesters: Evidence from Arusha, Tanzania." *Energy for Sustainable Development*. <http://dx.doi.org/10.1016/j.esd.2013.02.001>
5. Marks, S., K. Onda, and J. Davis. 2013. "Does sense of ownership matter for rural water system sustainability? Evidence from Kenya." *Journal of Water, Sanitation, and Hygiene for Development* 3 (2): 122–133. doi:10.2166/washdev.2013.098
6. Mattioli, M.C., A. J. Pickering, R. Gilsdorf, J. Davis, A. B. Boehm. 2013. Hands and water as vectors of diarrheal pathogens in Bagamoyo, Tanzania. *Environmental Science & Technology*, 47, 355-363.
7. S. Marks and J. Davis. 2012. "Does user participation lead to sense of ownership for rural water systems? Evidence from Kenya." *World Development* 40(8): 1569-1576. doi: 10.1016/j.worlddev.2012.03.011.
8. A. J. Pickering, T. R. Julian, S. J. Marks, M. C. Mattioli, A. B. Boehm, K. J. Schwab, J. Davis. 2012. Fecal contamination and diarrheal pathogens on surfaces and soils among Tanzanian households with and without improved sanitation. *Environmental Science & Technology*, 46, 5736-5743.
9. E. van Houweling, R. Hall, A.S. Diop, J. Davis, and M. Seiss. 2012. "The role of productive water use in women's livelihoods: Evidence from rural Senegal." *Water Alternatives* 5(3): 658-677.
10. A. Pickering and J. Davis. 2012. "Freshwater availability affects child health in sub-Saharan Africa." *Environmental Science & Technology*. doi: 10.1021/es203177v.
11. 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.
12. N Badowski, C. Castro, M. Montgomery, A. Pickering, S. Mamuya, and J. Davis. 2011. "Understanding Household Behavioral Risk Factors for Diarrheal Disease in Dar es Salaam: A Photovoice Community Assessment." *Journal of Environmental and Public Health*, Vol. 2011(130467). doi:10.1155/2011/130467.
13. Characklis, G., Adriaens, P., Braden, J., Davis, J. Hamilton, B., Hughes, J.; Small, M., & Wolfe, J. 2011. "Increasing the Role of Economics in Environmental Research (or moving beyond the mindset that Economics = Accounting)." *Environmental Science &*

Technology 45(15): 6235–6236.

14. A. Pickering, Jennifer Davis, Alexandria B. Boehm. “Efficacy of alcohol-based hand sanitizer on hands soiled with dirt and cooking oil.” 2011. *Journal of Water & Health* 9(3): 429-433. doi:10.2166/wh.2011.138
15. H. Schaffer-Boudet, D.C. Jayasundera, and J. Davis. 2011. “Drivers of conflict in global infrastructure projects: Experience from the water and pipeline sectors.” *Journal of Construction Engineering and Management*, Vol. 137, (7): 498-511. DOI: 10.1061/(ASCE)CO.1943-7862.0000333.
16. J. Davis, A. Boehm, A. Pickering, K. Rogers, and S. Mamuya. 2011. “The effects of informational interventions on household water management, hygiene behaviors, stored drinking water quality, and hand contamination in peri-urban Tanzania.” *American Journal of Tropical Hygiene & Medicine* 84(2): 184-191. doi: 10.4269/ajtmh.2011.10-0126.
17. A. Pickering, T. Julian, A. Boehm, J. Davis. 2010. Bacterial hand contamination among Tanzanian mothers varies temporally and following household activities. *Tropical Medicine & International Health*. DOI: 10.1111/j.1365-3156.2010.02677.x.
18. A. J. Pickering, J. Davis, S. P. Walters, H. M. Horak, D. P. Keymer, D. Mushi, R. Strickfaden, J. S. Chynoweth, J. Liu, A. Blum, K. Rogers, A. B. Boehm. 2010. Hands, water, and health: fecal contamination in Tanzanian communities with improved, non-networked water supplies. *Environmental Science & Technology* DOI: 10.1021/es903524m.
19. H. M. Horak, J. S. Chynoweth, W. P. Myers, J. A. Davis, S. Fendorf, A. B. Boehm. 2010. Water quality of water in rain catchments compared to other drinking water sources in the East Sepik Province, Papua New Guinea. *Journal of Water and Health* 8, 126-138.
20. A. J. Pickering, A. B. Boehm, Mathew Mwanjali, J. Davis. 2010. Efficacy of waterless hand hygiene as compared to handwashing with soap: A field study in Dar es Salaam, Tanzania. *American Journal of Tropical Medicine and Hygiene*, 82, 270-278.
21. D. McAdam, H. Schafer, J. Davis, R. Orr. 2009. Site fights: “Explaining variation in opposition to pipeline projects in the developing world.” *Environmental Politics* 18(2): 307-308.
22. Whittington, D., J. Davis, L. Prokopy, K. Komives, R. Thorsten, H. Lukacs. 2009. “How well is the demand-driven, community management model for rural water supply systems doing? Evidence from Bolivia, Peru, and Ghana,” *Water Policy* 11: 696-718.
23. Davis, J., G. White, S. Damodaron, and R. Thorsten. 2008. “Improving access to water supply and sanitation in urban India: microfinance for water and sanitation infrastructure development,” *Water Science & Technology* 58(4): 887-891.

24. Davis, J, H. Luckas, M. Jeuland, B. Soto, G. Lizarraga. 2008. "Sustaining the benefits of rural water supply investments: Experience from Bolivia." *Water Resources Research* 44, W12427, doi:10.1029/2007WR006550.
25. Davis, J. 2005. "Private-sector Participation in the Water and Sanitation Sector." *Annual Review of Environment and Resources* 30: pp. 1-39.
26. Davis, J., and Whittington, D. 2004. "Challenges for Water Sector Reform in Transition Economies." *Water Policy* 6(4): 1-15.
27. Davis, J. 2003. "Corruption in Public Services: Experience from South Asia's Water and Sanitation Sector." *World Development* 32(1): pp. 53-71.
28. Davis, J. 2003. "Scaling Up Slum Upgrading Efforts: Where are the Bottlenecks?" *International Development Planning Review* 26(3): pp. 301-319.
29. Davis, J., "Assessing Community Preferences for Development Initiatives: Are Willingness-to-pay Studies Robust to Mode Effects?" 2002. *World Development* 32(4): pp. 655-672.).
30. Davis, J., Kang, A., Vincent, J., and Whittington, D. 2001. "How Important is Improved Water Infrastructure to Microenterprises? Evidence from Uganda." *World Development* 29(10): pp. 1753-1767.
31. Whittington, D., Davis, J., Miarsono, H., and Pollard, R. 1999. "Designing a "Neighborhood Deal" for Urban Sewers: A Case Study of Semarang, Indonesia." *Journal of Planning Education and Research* 19 (3): pp. 297-308.
32. Whittington, D., Davis, J., and McClelland, E. 1999. "Implementing a Demand-driven Approach to Community Water Supply Planning: A Case Study of Lugazi, Uganda." *Water International* 23 (3): pp. 134-145.
33. Davis, J. and Whittington, D. 1998. "Participatory Research Techniques for Development Projects: A Comparison of the Contingent Valuation and Community Dialogue methods." *Economic Development and Cultural Change* 47 (1): pp. 73-81.

Publications accepted/In press

1. J. Ho, K.C. Russell, J. Davis. 2013. The challenge of global water access monitoring: evaluating straight-line distance versus self-reported travel time among rural households in Mozambique. In press at *Journal of Water & Health*. doi:10.2166/wh.2013.042
2. V. Zuin, L. Ortolano, and J. Davis. 2013. The "other" small private water service providers: Water resale in Maputo, Mozambique. Accepted to *Journal of Water, Sanitation & Hygiene for Development*.

3. S. Marks and J. Davis. 2012. Community participation and water supply sustainability: Evidence from handpump projects in rural Ghana. Accepted to *Journal of Planning Education and Research*.

Book chapters in print

1. Doug McAdam, Hilary Schaffer Boudet, Jennifer Davis, Ryan J. Orr, W. Richard Scott, and Raymond E. Levitt. "Site fights": explaining opposition to pipeline projects in the developing world. Chapter 8 in *Global Projects*, W.R. Scott, R.E. Levitt and R.J. Orr, editors. 2011. Cambridge, UK: Cambridge University Press.
2. Davis, J, H. Luckas, M. Jeuland, B. Soto, G. Lizarraga, A. Alvestegui. Sustaining the benefits of rural water supply investments: Experience from Bolivia. Chapter 3 in *Post-construction Support and Sustainability in Community-Managed Rural Water Supply: Case Studies in Peru, Bolivia, and Ghana*. A. Bakalian and W. Wakeman, editors. 2009. Washington, DC: The World Bank.
3. Davis, J. The economic returns to water and sanitation investments. Chapter 7.1 in *Global Crises, Global Solutions: Costs and Benefits*. B. Lomberg, editor. 2009. Cambridge, UK: Cambridge University Press.
4. Whittington, D., Davis, J., and McClelland, E., "Implementing a Demand-driven Approach to Community Water Supply Planning: A Case Study of Lugazi, Uganda." In Saleth, R.M., ed., *Water Resources and Economic Development*, Cheltenham, UK: Edward Elgar Publishing. 2002.