

Curriculum Vitae

Marc A. Jeuland

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EDUCATION

University of North Carolina-Chapel Hill

2004-2009

PhD in Environmental Sciences and Engineering, Minor in Economics (2009)

M.S.E.E.; Environmental Engineering (2006)

Swarthmore College

1997-2001

B.S. Engineering, Chemistry Minor (High Honors)

PROFESSIONAL EXPERIENCE / AWARDS

Assistant Professor; Duke University

Jul 2010-present

Sanford School of Public Policy & Duke Global Health Institute

Secondary appointments: Nicholas School of the Environment; Department of Civil and Environmental Engineering

Leopold Leadership Program Participant

Feb 2015

Navigating the International Sustainability Development Arena

Washington D.C.

Senior Research Fellow, International Water Management Institute

May 2014-present

Colombo, Sri Lanka

Adjunct Senior Research Fellow, National University of Singapore

June 2014-present

Institute for Water Policy, Lee Kwan Yew School of Public Policy

Consultant, Social Impact

Oct 2012-present

Technical Lead; Impact Evaluation of MCC / MCA-J Jordan Water Compact

Consultant, World Bank

2007-2011

Ganges Basin Strategic Assessment Economic Modeling Team

2009-2011

Eastern Nile Scoping Study and Strategic Economic Planning Study

2006-2011

Integrated Sewerage and Sanitation Improvement Project (ISSIP)

2008

Middle East and North Africa (MENA) Region Wastewater Reuse Study

2007

Graduate Research Assistant – University of North Carolina at Chapel Hill

2005-2007

Diseases of the Most Impoverished (DOMI) Project; Rural Water Project Sustainability Project

Kenan Graduate Student Fellowship – University of North Carolina at Chapel Hill

2004-2009

Research Assistant

2004

Excreta and Wastewater Management Division, Department of Water and Sanitation in Developing Countries (SANDEC), Swiss Federal Institute of Aquatic Science and Technology (EAWAG)

Peace Corps Volunteer (PCV), Bamako, Mali 2001-2004
Primary assignment: Water Resource Management Engineer

Undergraduate Research Assistant 2000-2001
Swarthmore College Environmental Engineering Laboratory Swarthmore, PA

TEACHING

Assistant Professor, Duke University **Fall 2010-present**
Sanford School of Public Policy and Duke Global Health Institute

Courses taught: Economics of the Public Sector; Economic Evaluation for Environment and Health; Water, Conflict and Cooperation; Global Environmental Health

Guest lectures: Global Environmental Health (S. Pattanayak); Introduction to Global Health (K. Whetten); Economics of the Public Sector (H. Ladd); International Water Resources (A. Vengosh); Environmental and Resource Economics, Public Investment Theory & Water and Sanitation in Less-Developed Countries (D. Whittington; UNC-Chapel Hill); Engineering Sustainable Design and the Global Community (D. Schaad); Global Health Challenges (C. Woods)

Duke-IIMU Summer School for Future Leaders in Development 2014-2015
4 lecture module on methods for fieldwork in development Udaipur, India

Economy and Environment Program for Southeast Asia short course **October 2013**
4-day short course: Risk-based Cost-Benefit Analysis and Monte Carlo Simulation Penang, Malaysia

Organizer: Duke Workshop on “Water, Climate Change and Health in Africa” **March 2013**
2-day workshop Duke University, Durham, USA

Latin America and Caribbean Environmental Economics Program short course **Summer 2012**
Climate Change and Water (with Michael Hanemann and Dale Whittington) Turrialba, Costa Rica

UNC Guest Lecturer

Course: *Environmental and Resource Economics* (Dale Whittington, UNC-Chapel Hill) 2010
Course: *Interdisciplinary Perspectives in Global Health* (Gillings School of Public Health) 2005

REACH Teaching Fellow **Spring 2009**
Course: *Water, Cooperation and Conflict* (Department of International Studies)

Future Faculty Fellowship Award Winner and Training **May 2008**

Graduate Teaching Assistant (Professors Dale Whittington and Greg Characklis) **2007-2009**
Courses: *Unifying Concepts, Setting Environmental Priorities, Public Investment Theory*

Economic Appraisal of Dams Workshop Facilitator **Jan 2007**
Eastern Nile Technical Regional Office (ENTRO) Workshop Cairo, Egypt

PUBLICATIONS

Manuscripts under review / in preparation

A.1. Wu, X.; **M. Jeuland**; D. Whittington (2015). “Does Hydropolitical Ambiguity Affect Water Resources Development? The Case of the Eastern Nile.” *In preparation*.

- A.2. Paul, C.; E. Weinthal; M. Bellemare; **M. Jeuland** (2015). “Social capital, trust, and climate change adaptation: Evidence from rural Ethiopia” *In preparation*.
- A.3. Orgill, J.; S. Alikhan; N. Cutler; M. Brune; J. Albert; A. Wyatt; **M. Jeuland** (2015). “Demand for increased water reliability among urban households in Jordan.” *In preparation*.
- A.4. Pattanayak, S.K., **M. Jeuland**, J.J. Lewis, V. Bhojvaid, N. Brooks, A. Kar, L. Morrison, O. Patange, L. Philippone, N. Ramanathan, I.H. Rehman, R. Thadani, M. Vora, V. Ramanathan. (2014). “Cooking up change in the Himalayas: Evidence from mixing quasi-experiments with an experiment on cookstove promotion.” *In preparation*.
- A.5. Hanemann, M.; **M. Jeuland**; K. Downs; D. Whittington (2014). “Estimating the global health damages from climate change in an integrated assessment model: The problems of scale and aggregation.” *In preparation*.
- A.6. Bekchanov, M.; A. Sood; **M. Jeuland** (2015). “Hydro-economic models to address river basin management problems: structure, applications, and research gaps.” *International Water Management Institute Working Paper*.
- A.7. **Jeuland, M.**; M. McClatchey; S. Patil; S.K. Pattanayak; C. Poulos; J.C. Yang (2015). “Do decentralized community treatment plants provide better water? Evidence from Andhra Pradesh.” *Duke Environmental and Energy Economics Working Paper EE-15-01*.
- A.8. **Jeuland, M.**; S.K. Pattanayak; J.S. Tan-Soo (2014). “Preference heterogeneity and adoption of environmental health improvements: Evidence from a cookstove promotion experiment.” *Duke Environmental and Energy Economics Working Paper EE-14-10*.
- A.9. Brown, J.; **M. Jeuland**; A. Hamoudi; G. Turrini (2014). “Seeing, believing, and behaving: Heterogeneous effects of an information intervention on household water treatment.” *Submitted*.
- A.10. **Jeuland, M.**; V Bhojvaid; A Kar; J. Lewis; O. Patange; S.K. Pattanayak; N Ramanathan; I. Rehman; J. Tan Soo; V. Ramanathan (2013) “Preferences for improved cookstoves: Evidence from rural villages in north India” *Submitted*.
- A.11. Bekchanov, M.; C. Ringler; A. Bhaduri and **M. Jeuland** (2015). “Optimizing irrigation efficiency improvements in the Aral Sea Basin.” *Revise & Resubmit*.
- A.12. Brooks, N.; **M. Jeuland**; J. Lewis; S. Pattanayak (2014). “How much do clean cookstoves reduce biomass fuel consumption? Evidence from North India” *Revise & Resubmit*.

Peer-reviewed publications

- B.1. **Jeuland, M.**; J. Orgill, A. Shaheed, A., G. Revell & J. Brown (2012). “A matter of good taste: Investigating preferences for in-house water treatment” *Environment and Development Economics (Accepted)*.
- B.2. Li, L.; W. Li; T. Ballard; G. Sun; and **M. Jeuland** (2015). “CMIP5 model simulations of Ethiopian Kiremt-season precipitation: current climate and future changes.” *Climate Dynamics (Accepted)*.
- B.3. Bekchanov, M.; C. Ringler; A. Bhaduri and **M. Jeuland** (2015). “How does the Rogun Dam affect water and energy scarcity in Central Asia?” *Water International (In press)*. doi:10.1080/02508060.2015.1051788.
- B.4. **Jeuland, M.**; R. Bluffstone; S.K. Pattanayak (2015). “The economics of household air pollution.” *Annual Review of Resource Economics (Accepted)*.
- B.5. **Jeuland, M.** (2015). “Challenges to wastewater reuse in the Middle East and North Africa.” *Middle East Development Journal (Accepted)*.

- B.6. Rango, T.; **M. Jeuland**; H. Manthrilake; P. McCornick (2015). “Nephrotoxic contaminants in drinking water and urine, and chronic kidney disease in rural Sri Lanka.” *Science of the Total Environment* 518-519: 574-585.
- B.7. Lewis, J.; V. Bhojvaid; N. Brooks; I. Das; **M. Jeuland**; O. Patange, S.K. Pattanayak (2014). “Piloting improved cookstoves in India.” *Journal of Health Communication* 20: 28–42.
- B.8. **Jeuland, M.**; J. Baker; Bartlett, R.; G. Lacombe (2014). “The costs of uncoordinated infrastructure management in multi-reservoir river basins” *Environmental Research Letters* 9(105006). doi:10.1088/1748-9326/9/10/105006.
- B.9. Lacombe, G.; S. Douangsavanh, J. Baker, C.T. Hoanh, R. Bartlett, **M. Jeuland**; C. Phongpachith (2014). “Hydropower and irrigation in the Nam Ngum sub-basin of the Mekong River: An example of complimentary developments.” *Water International* 39(5): 649-670.
- B.10. Rango, T.; A. Vengosh; **M. Jeuland**; R. Tekle-Haimanot, E. Weinthal, J. Kravchenko, C. Paul, P. McCornick (2014). “Fluoride exposure from groundwater as reflected by urinary fluoride and children’s dental fluorosis in the Main Ethiopian Rift Valley.” *Science of the Total Environment* 496: 188-197.
- B.11. Whittington, D.; J. Waterbury; **M. Jeuland** (2014). “The Grand Renaissance Dam and prospects for cooperation on the Nile.” *Water Policy* 16: 595-608.
- B.12. **Jeuland, M.**; D. Whittington (2014). “Water resources planning under climate change: Assessing the robustness of real options for the Blue Nile.” *Water Resources Research* 50(3): 2086-2107.
- B.13. Krauchanka, J.; T. Rango; I. Akushevich; B. Atlaw; P.G. McCornick; B.R. Merola; C. Paul; E. Weinthal; A. Vengosh; **M. Jeuland** (2014). “The effect of non-fluoride factors on risk of dental fluorosis: Evidence from rural populations of the Main Ethiopian Rift.” *Science of the Total Environment* 488-489: 595-606.
- B.14. Shaheed, A.; J. Orgill; M. Montgomery; **M. Jeuland**; J. Brown (2014). “Why “improved” water sources are not always safe.” *Bulletin of the World Health Organization* 92: 283-289.
- B.15. Bhojvaid, V.; **M. Jeuland**, A. Kar; J. Lewis; S.K. Pattanayak; N. Ramanathan; V. Ramanathan; I. Rehman (2014). “How do people in rural India perceive improved stoves and clean fuel? Evidence from Uttar Pradesh and Uttarakhand.” *International Journal of Environmental Research and Public Health* 11(2), 1341-1358.
- B.16. Shaheed, A.; J. Orgill; R. Chai; M. Montgomery; **M. Jeuland**; J. Brown (2014). “Water quality risks to “improved” water sources: evidence from Cambodia” *Tropical Medicine and International Health* 19(2): 186-194. doi: 10.1111/tmi.12229.
- B.17. **Jeuland, M.**; S. Ozdemir; D. Fuente; M. Allaire; D. Whittington (2013). “The long-term dynamics of health benefits from improved water and sanitation in developing countries.” *PLoS ONE* 8(10): e74804. doi: 10.1371/journal.pone.0074804.
- B.18. Orgill, J.; **M. Jeuland**; A. Shaheed; J. Brown (2013). “Water quality perceptions and willingness to pay for clean water in peri-urban communities in Cambodia.” *Journal of Water & Health* 11(3): 489-506. doi:10.2166/wh.2013.212.
- B.19. **Jeuland, M.**, N. Harshadeep; J. Escurra; D. Blackmore; C. Sadoff (2013). “Implications of climate change for water resources development in the Ganges basin.” *Water Policy* 15:26-50. doi:10.2166/wp.2013.107.
- B.20. Wu, X.; **M. Jeuland**; D. Whittington; C. Sadoff (2013). “Interdependence in water resource development in the Ganges: an economic analysis.” *Water Policy* 15:89-108. doi:10.2166/wp.2013.003.

- B.21. Sadoff, C., N. R. Harshdeep, D. Blackmore, X. Wu, A. O'Donnell, **M. Jeuland**, S. Lee and D. Whittington (2013). "Ten fundamental questions for water resources development in the Ganges: myths and realities." *Water Policy* 15: 147-164. doi:10.2166/wp.2013.006.
- B.22. Hamoudi, A; **M. Jeuland**; S. Lombardo; S.R. Patil; S.K. Pattanayak; and S. Rai (2012). "Household responses to water quality testing in rural India: Evidence from a randomized experiment." *American Journal of Tropical Medicine and Hygiene* 87: 18-22; doi:10.4269/ajtmh.2012.12-0051.
- B.23. Whittington, D.; **M. Jeuland**; K. Barker, Y. Yuen (2012). "Setting priorities and, targeting subsidies among water, sanitation, hygiene and preventive health interventions in developing countries." *World Development* 40(8): 1546–1568.
- B.24. Rango, T.; J. Kravchenko; A. Vengosh; P. McCornick; B. Atlaw; **M. Jeuland** & B. Merola (2012). "Groundwater quality and its health impact: an assessment of dental fluorosis in rural inhabitants of the Main Ethiopian Rift." *Environment International* 43: 37-47; doi:10.1016/j.envint.2012.03.002.
- B.25. **Jeuland, M.**; S.K. Pattanayak (2012). "Benefits and costs of improved cookstoves: Assessing the implications of variability in health, forest and climate impacts" *PLOS One* 7(2): e30338. doi:10.1371/journal.pone.0030338.
- B.26. Cook, J.; **M. Jeuland**; B. Maskery; D. Whittington (2011). "Giving stated preference respondents "time to think": results from four countries." *Environmental and Resource Economics* 51(4): 473-496. doi 10.1007/s10640-011-9508-4.
- B.27. **Jeuland, M.** (2010). "Economic implications of climate change for infrastructure planning in transboundary water systems: an example from the Blue Nile." *Water Resources Research* 46, W11556. doi:10.1029/2010WR009428.
- B.28. **Jeuland, M.** (2010). "Social discounting of large dams with climate change uncertainty." *Water Alternatives Special Issue on the World Commission on Dams* 3(2): 185-206.
- B.29. **Jeuland, M.**; M. Lucas; J. Clemens; D. Whittington (2009). "Estimating the private benefits of vaccination against cholera in Beira, Mozambique: a travel cost approach." *Journal of Development Economics* 91: 310-322.
- B.30. **Jeuland, M.**; J. Cook; J. Clemens; C. Poulos; D. Whittington; DOMI Cholera Economics Study Group (2009). "Incorporating herd protection into cost-effectiveness calculations of new generation oral cholera vaccines: a multi-site analysis." *Value in Health* 12 (6), 899-908.
- B.31. **Jeuland, M.**; M. Lucas; J. Clemens; D. Whittington (2009). "A cost benefit Analysis of vaccination programs in Beira, Mozambique." *World Bank Economic Review* 23 (2):235-267.
- B.32. Whittington, D.; W.M. Hanemann; C. Sadoff; **M. Jeuland**. (2009). "The challenge of improving water and sanitation services in less developed countries." *Foundations and Trends in Microeconomics* 4 (6): 469-607.
- B.33. **Jeuland, M.**; D. Whittington (2009). "Cost-benefit comparisons of investments in improved water supply and cholera vaccination programs." *Vaccine* 27 (23):3109-3120.
- B.34. Soliman, E.; M.A. Aty Sayed, **M. Jeuland** (2009). "Impact assessment of future climate change for the Blue Nile Basin, using a RCM nested in a GCM." *Nile Water Science and Engineering Magazine* 2: 15-30.

- B.35. Davis, J.; H. Lukacs; **M. Jeuland**; A. Alvestegui; B. Soto; G. Lizarraga; A. Bakalian (2008). “Sustaining the benefits of rural water supply investments: Experience from Cochabamba and Chuquisaca, Bolivia.” *Water Resources Research* 44: doi:10.1029/2007WR006550.
- B.36. Cook, J.; **M. Jeuland**; B. Maskery; D. Lauria; D. Sur; J. Clemens; D. Whittington (2008). “Using private demand studies to calculate socially optimal vaccine subsidies in developing countries.” *Journal of Policy Analysis and Management* 28 (1): 6-28.
- B.37. Cook, J.; **M. Jeuland**; D. Whittington; C. Poulos; J. Clemens; D. Sur; D.D. Anh; M. Agtini; Z. Bhutta; DOMI Typhoid Economics Study Group (2008). “The cost-effectiveness of typhoid Vi vaccination programs: Calculations for four urban sites in four Asian countries.” *Vaccine* 26 (50): 6305-6316.
- B.38. Lucas, M.; **M. Jeuland**; J. Deen; N. Lizaro; M. McMahon; A. Nyamete; A. Barreto; L. von Seidlein; A. Cumbane; F. Songane; D. Whittington (2007). “Private demand for cholera vaccines in Beira, Mozambique.” *Vaccine* 25 (14): 2599-2609.
- B.39. Strauss, M.; W. Barreiro; M. Steiner; A. Mensah; **M. Jeuland**; S. Bolomey; A. Montangero; D. Koné (2003). “Urban excreta management – situation, challenges and promising solutions.” *Asian Water Quality*. Bangkok, Thailand.

Other reports / book chapters

- C.1. Jeuland, M. (2015). “Climate change and the Ganges Basin.” *Under review*. In: “The Ganges River Basin: Status and challenged in water, environment and livelihoods.” L. Bharati, Sharma, A. Nishat, V. Smakhtin (ed.). Earthscan.
- C.2. International, Non-partisan Eastern Nile Working Group (2015). “The Grand Ethiopian Renaissance Dam: An Opportunity for Collaboration and Shared Benefits in the Eastern Nile Basin.” MIT Abdul Latif Jameel World Water and Food Security Lab; Cambridge, MA.
Available at: <http://web.mit.edu/jwafs/gerd-report.html>.
- C.3. Jeuland, M. (2014). “Air Pollution Perspective Paper.” *Copenhagen Consensus Center Post-2015 Consensus*. Copenhagen, Denmark.
- C.4. **Jeuland, M.** (2012). “Creating incentives for more effective wastewater reuse in the Middle East and North Africa.” In: Environmental Incentives and Regulation. Ed.: Abou-Ali, H. Edward-Elgar Press.
- C.5. **Jeuland, M.** (2013). “Chapter 7.10 Demand Assessment” and “Chapter 7.11. Cost-Benefit and Cost-Effectiveness Analysis” In: Bartram, J. Global Water, Sanitation and Hygiene and Health.
- C.6. **Jeuland, M.**; S. Ozdemir; D. Fuente; M. Allaire; D. Whittington (2013). “Economic Losses from Poor Water and Sanitation: Past, Present, and Future.” In: Lomborg, B. How Much have Global Problems Cost the World?: A Scorecard from 1900 to 2050. Cambridge University Press: Cambridge, UK.
- C.7. Poulos, C.; A. Riewpaiboon, J.F. Stewart, J. Clemens, S. Guh, M. Agtini, D. Sur, Z. Islam, M. Lucas, D. Whittington and the **DOMI Cholera COI Study Group** (2011). “Costs of illness due to endemic cholera” *Epidemiological Infection* (2011). 140: 500–509. doi:10.1017/S0950268811000513.
- C.8. Poulos, C., A. Riewpaiboon, J. F. Stewart, J. Clemens, S. Guh, M. Agtini, D. D. Anh, D. Baiqing, Z. Bhutta, D. Sur, D. Whittington and the **DOMI Typhoid COI Study Group** (2011). “Cost of illness due to typhoid fever in five Asian countries.” *Tropical Medicine and International Health* 16 (3): 314-323. doi:10.1111/j.1365-3156.2010.02711.x

- C.9. **Jeuland, M.**; J. Cook; C. Poulos; J. Clemens; B. Maskery; D. Lauria; J. Stewart; M. Lucas; D. Whittington (2010). "Incorporating Cholera Vaccine Herd Protection into Economic Cost-Benefit and Cost-Effectiveness Models." *Procedia in Vaccinology*.
- C.10. Komives, K.; **M. Jeuland**; B. Akanbang; R. Thorsten; B. Tuffuor; W. Wakeman; E. Larbi; A. Bakalian; D. Whittington (2009). "Post-construction Support and the Sustainability of Rural Water Projects in Ghana." *Project report*.
- C.11. Akanbang, B.; A. Alvestegui; ...; **M. Jeuland** et al. (2009). Post-Construction Support and Sustainability in Community-Managed Rural Water Supply: Case Studies in Peru, Bolivia, and Ghana. Bakalian, A.; W. Wakeman (ed.). Water Sector Board Discussion Series Paper No. 14. World Bank: Washington, D.C.
- C.12. Whittington, D.; W.M. Hanemann; C. Sadoff; **M. Jeuland**. (2009). "Sanitation and Water." In *Global Crises, Global Solutions*, Lomborg, B. (ed.) 2nd Edition, Cambridge University Press.
- C.13. Kfour, C.; P. Mantovani; **M. Jeuland**. (2009). "Water Reuse in the MNA Region: Constraints, Experiences, and Policy Recommendations." In *Water in the Arab World: Management Perspectives and Innovations*, Jagannathan, N., A. S. Mohamed, A. Kremer (eds.). The World Bank: Washington, D.C.
- C.14. Poulos, C.; A. Riewpaiboon; J. Stewart; A. Nyamete; S. Guh; J. Clemens; S. Chatterjee; R. Malik; S. Islam; A. Macuamule; B. Maskery; J. Cook; D. Kim; D. Lauria; **M. Jeuland**; D. Whittington (2009). "Costs of Illness Due to Endemic Cholera." *Report to the International Vaccine Institute*. Seoul, Korea.
- C.15. Poulos, C.; A. Riewpaiboon; J. Stewart; A. Nyamete; S. Guh; J. Clemens; S. K. Bhattacharya; R. Malik; G. Yanning; Z. Bhutta; T. B. Yen; B. Maskery; J. Cook; D. Kim; D. Lauria; **M. Jeuland**; D. Whittington (2009). "Costs of Illness Due to Typhoid Fever in Study Sites in Five Asian Countries." *Report to the International Vaccine Institute*. Seoul, Korea.
- C.16. **Jeuland, M.** (2007). "Wastewater Reuse in the MENA Region: Constraints, Experiences and Recommendations for the Future." Report to the World Bank: Washington, DC.
- C.17. **Jeuland, M.** (2007). "Estimating the private benefits of vaccination against cholera in Beira: a travel cost approach: A Masters Technical Report." Department of Environmental Sciences and Engineering, UNC – Chapel Hill.
- C.18. **Jeuland, M.**; D. Koné; M. Strauss (2004). "Private Sector Management of Fecal Sludge: A Model for the Future? Focus on an innovative planning experience in Bamako, Mali." Duebendorf, Switzerland, EAWAG/SANDEC.
- C.19. **Jeuland, M.** (2003). "Projet de réalisation d'une unité de traitement de boues de vidange." (Translation: Feasibility study for a fecal sludge treatment project). GIE Sema Saniya: Bamako, Mali.
- C.20. **Jeuland, M.** (1995). "The Lincoln Park Gun Club: A Study of the Limits of Compromise." *Chicago Historical Society Research Center Collection*. Chicago, IL.

CONFERENCE PAPERS / INVITED PRESENTATIONS

- D.1. **Jeuland, M.**; S. Pattanayak; J.S. Tan Soo. "Preference heterogeneity and adoption of environmental health improvements: Evidence from a cookstove promotion experiment."
 AAG Annual Meeting 2015. Chicago, IL; April 20-25 2015.
 EAERE Annual Meeting 2015. Helsinki, Finland, June 26 2015.
 NBER Summer Institute 2015. Cambridge, MA, July 21-22 2015.

- D.2. **Jeuland, M.;** J. Lewis; S. Pattanayak. "Demand for Cleaner Household Cooking Technologies: Experimental Evidence from Rural India." APPAM Fall Meeting 2014. Albuquerque, NM, November 6-8, 2014.
- D.3. **Jeuland, M.;** M. McClatchey; S.K. Pattanayak; C. Poulos. "Do decentralized community treatment plants provide better water? Evidence from Andhra Pradesh."
 UNC Water and Health Conference 2014. Chapel Hill, NC; October 27, 2014.
 Institute of Water Policy Lunch Seminar, National University of Singapore, Singapore; May 18 2015.
 EAERE Annual Meeting 2015. Helsinki, Finland, June 27 2015.
- D.4. **Jeuland, M.;** S. Pattanayak; J. Lewis. "Increasing ICS Adoption and Use in Rural India: Lessons from the Duke-TRAction Project." *Symposium on Assessing Exposures and Health Effects Related to Indoor Biomass Fuel Burning*, National Institute of Environmental Health Sciences, Research Triangle Park, NC; August 18, 2014.
- D.5. **Jeuland, M.;** J. Brown; A. Hamoudi; G. Turrini. "Heterogeneous effects of information on household behavior to improve water quality."
 Institute of Water Policy Lunch Seminar, National University of Singapore; July 31 2014.
 World Congress of Environmental and Resource Economics 2014. Istanbul, Turkey, June 28-July 2, 2014.
 Also presented by Gina Turrini at Duke University Development Brown Bag. Durham, NC; 2013.
 Water & Health Conference. Chapel Hill, NC; October 2013.
- D.6. Tan Soo, J.S.; **M. Jeuland;** S. Pattanayak "Does data from choice experiments explain revealed preferences? Evidence from improved stoves purchase in rural India." ASSA Annual Meeting 2014. Philadelphia, PA., January 3-5, 2014.
- D.7. **Jeuland, M.;** S. Pattanayak; J. Lewis; J. Tan-Soo. "Adoption of Improved Stoves in the Presence of Varied Institutions." SEA Annual Meeting 2013. Tampa Bay, FL., November 22-25, 2013.
- D.8. Pattanayak, S. **M. Jeuland** et al.. "The convenient truth? Household energy choices & environmental health outcomes in rural India." Sanford faculty fac-doc seminar; Durham, NC, November 13, 2013.
- D.9. **Jeuland, M.;** S. Pattanayak; J. Lewis; J. Tan-Soo. "Do rural Indians actually want clean cookstoves?" APPAM Annual Meeting 2013. Washington, DC. ; November 9, 2013.
- D.10. **Jeuland, M.** & G. Turrini. "Household behaviors to improve drinking water quality: Do perceptions really matter?" EAERE Annual Meeting 2013. Toulouse, France, June 26-29, 2013.
- D.11. **Jeuland, M.** et al. "Introduction to hydro-economic modeling, and applications to the Ganges, Nile and Mekong Basins." *International Water Management Institute 'Techies' Annual Meeting 2013*. Nairobi, Kenya; June 11-14, 2013.
- D.12. **Jeuland, M.** et al.. "Preferences for improved cookstoves: Evidence from India." *AERE Summer Meeting 2013*. Banff, Canada, June 7-8, 2013.
- D.13. **Jeuland, M.** "Interdependencies in water resources development across Ganges Basin countries." Environment across disciplines – Perspectives from India and beyond. North Carolina State University. April 19-20 2013; Raleigh, NC.
- D.14. **Jeuland, M.** "Water systems and change: Economics, and policy solutions (and limits)." Duke University Course on Water. March 19, 2013. Durham, NC.
- D.15. **Jeuland, M.** "Water quality perceptions and demand for water treatment in rural Cambodia." Innovations in Water Policy: Theory, Practice, and Impacts. Institute for Water Policy: National University of Singapore. Feb. 26-28, 2013. Singapore.

- D.16. **Jeuland, M.;** G. Turrini; J. Orgill; A. Shaheed; J. Brown. “The Role of Water Quality Perceptions In Determining the Demand for Water Treatment In Cambodia.” APPAM Fall Conference 2012. Baltimore, MD, Nov. 10, 2012.
- D.17. **Jeuland, M.;** M. Allaire; D. Fuente; D. Whittington. “Forecasting and Preventing Economic Losses Due to Poor Water and Sanitation in Africa.” APPAM Fall Conference 2012. Baltimore, MD, Nov. 10, 2012.
- D.18. **Jeuland, M.** “Comparative Environmental and Energy Policy.” Session Chair: APPAM Fall Conference 2012. Baltimore, MD, Nov. 10, 2012.
- D.19. **Jeuland, M.** “It’s not safe to assume: The limitations and opportunities of economic modeling.” Invited Talk, Water and Health Conference. Chapel Hill, NC, Oct. 3, 2011.
- D.20. **Jeuland, M.** “Climate Change Impacts on the Economics of Water.” Duke Water Markets Symposium. Durham, NC, Apr. 1, 2011.
- D.21. **Jeuland, M.** “Panel on International Water Resources: Visions for Development.” Duke in Depth Conference. Durham, NC, Feb. 26, 2011.
- D.22. **Jeuland, M.** “Which Cost-Effectiveness Intervention Should We Choose?” Annual Conference of the Benefit-Cost Society. Washington, DC, Oct. 20, 2010.
- D.23. **Jeuland, M.** “Water Resource under Climate Change: A ‘Real Options’ Approach.”
Ecole Polytechnique: Paris, France, Sep. 30, 2010.
World Bank Development Research Group Seminar: Washington, D.C., Apr. 8, 2010.
Water and Health Conference. Chapel Hill, NC, Oct. 3, 2011
American Geophysical Union Annual Meeting, San Francisco, CA, Dec. 5, 2011.
- D.24. **Jeuland, M.** “Assessing the effects of climate change on the economics of large dams: An example from the Blue Nile.” World Congress for Environmental and Resource Economics: Montreal, Canada; July 2, 2010.
- D.25. **Jeuland, M.** “Social Discounting of Large Dams with Climate Change Uncertainty.” World Congress for Environmental and Resource Economics: Montreal, Canada; July 1, 2010.
- D.26. **Jeuland, M.** “Accounting for herd protection in cost-benefit and cost-effectiveness analyses of cholera vaccination.” WHO Initiative for Vaccine Research: Global Vaccine Research Forum: Bamako, Mali, Dec. 6-9, 2009.
- D.27. **Jeuland, M.** “Economic Challenges for Improving Water and Sanitation in Developing Countries.” *AEESP Annual Meeting*. University of Iowa, USA, July 27-28, 2009.
- D.28. **Jeuland, M.** “Incorporating Climate Change Considerations into Planning Infrastructure Investments.” *Water Week 2009*. The World Bank, Washington, D.C., February 18, 2009.
- D.29. **Jeuland, M.** “Water resources, development, and conflict in Sudan.” Chapel Hill, NC, Nov. 24, 2008.
- D.30. Soliman, E.; M. Sayed; **M. Jeuland.** “Nile Basin Simulation using RegCM3.” *Blue Nile Capacity-Building Network Annual Meeting*. Cairo, Egypt, Oct. 27-30, 2008.
- D.31. **Jeuland, M.** “The Implications of Climate Change for Planning Water Resources Investments in Transboundary River Systems.”
Fourth Transboundary Waters Conference. Thessaloniki, Greece, Oct. 15-17, 2008.

Blue Nile Capacity-Building Network Annual Meeting. Cairo, Egypt, Oct. 27-30, 2008.

- D.32. **Jeuland, M.**; D. Whittington. "Comparing investments in improved water supply and vaccination programs." *EAERE 2008*. Gothenburg, Sweden.
- D.33. **Jeuland, M.** "Towards Improved Blue Nile Infrastructure Planning." *Brown Bag Lunch*. World Bank: Washington, D.C.; May 30, 2008
- D.34. **Jeuland, M.** "A Cost-Benefit Analysis of Cholera Vaccination in Beira, Mozambique." Global Health Fair. UNC-Chapel Hill; September 23, 2008.
Spotlight on Student Research. UNC-Chapel Hill; April 10, 2008.
- D.35. **Jeuland, M.**; D. Whittington. "Comparing investments in improved water supply and typhoid and cholera vaccination." Institute for Social Studies: The Hague, the Netherlands; December 13, 2007
- D.36. **Jeuland, M.** "A Cost-Benefit Analysis of Cholera Vaccination in Beira, Mozambique." *Vaccine Congress 2007*. Amsterdam, the Netherlands; December 9-11, 2007.
- D.37. **Jeuland, M.** "Climate Change, and Eastern Nile Hydrology and Planning." *Triangle Resource and Environmental Economics Workshop*. Raleigh, NC; September 27-28, 2007.
- D.38. Cook, J.; D. Lauria; B. Maskery; **M. Jeuland**; D. Whittington. "Using Epidemiological Data to Value the Positive Externality of Vaccination." *IHEA 2007 Sixth World Congress: Explorations in Health Economics*. Copenhagen, Denmark; July 2007.
- D.39. **Jeuland, M.** "The Economic Benefits of Cholera Vaccines in Mozambique: A Travel Cost Application." *Camp Resources XIV*. Wilmington, NC; August 2006.
- D.40. **Jeuland, M.** "Private Demand for Cholera Vaccines in Beira, Mozambique." Department of Environmental Sciences and Engineering Seminar Series. UNC-Chapel Hill; February 2006.
Also presented to University of North Carolina – Chapel Hill Graduate Student Fellows, October 2006.
- D.41. **Jeuland, M.** "Environmental Stewardship by the Private Sector in Mali: Case Study of the GIE Sema Saniya." 81st AGUASAN Meeting; Bern, Switzerland; June 1, 2004.
EAWAG/SANDEC Research Presentation; Zurich, Switzerland; June 14, 2004.
- D.42. **Jeuland, M.** "Citoyenneté et Environnement: Le cas d'un GIE intervenant dans l'assainissement urbain." *Two Weeks for the Environment*, Malian Ministry for the Environment, Bamako, Mali; June 2003.
- D.43. **Jeuland, M.** "Etat des lieux à Bamako pour la gestion des boues de vidange." *CREPA Regional Review Workshop*. Ouagadougou, Burkina Faso; April 2002.

STUDENT ADVISING

Undergraduates: Cherry Tran (Economics Honors Thesis, 2012-2013), Allison Rhyne (Public Policy Independent Study, 2012-2013), Shajuti Hossain (Public Policy Honors Thesis, 2013-2014), Suhani Jalota (Economics Thesis, 2014-ongoing).

Masters Students:

Duke University MPP/MIDP Advisees:

Aroha Bahugona (2010-11), Molly Ward (2010-11), Michael Spolum (2011), Patrick Sabol (MIDP, 2012), Jennifer Orgill (2011-12), Gina Turrini (2012-13), Seth Parsons (2012-13), Minori Hagiwara (2012-13), Nina Brooks (2013-2014), Daniel Paulk (2014-2015) ; Alisha Pinto (2015-)

Duke University DGHI Advisees:

Lisa Philippone (2013-2015), Alexandra Shannon (2013-2015), Bolun Li (2014-)

Duke University MPP/MIDP Committees:

TJ Lowdermilk (2011-12), Adrian Macias (2011-12), Ben Thomas (2011-12), Ipsita Das (2011-12), Alyssa Lubet (2012-13), Jialu Sun (2012-13), Prakash Nayak (2012-13), Laura Morrison (2013-14), Ellen Jeffreys-White (2014-15), Jimena Rico-Straffon (2014-15).

Duke University MEM Committees: Farah Hegazi

Other Thesis Committees: Habib Yakubu Masters Thesis, UNC-Chapel Hill (MS, 2010-11), Patrick Ombiono Masters Thesis, Université de Yaoundé, Cameroon, in French.

PhD Advisees:

Jennifer Orgill (UPEP PhD Advisor, 2012-ongoing), Faraz Usmani (UPEP PhD Advisor, 2014-ongoing).

PhD Committees:

Jessica Lewis (ENV PhD Committee, 2013-ongoing), Chris Paul (UPEP PhD Committee, 2011-ongoing), Ashley Thompson (Civil & Environmental Engineering PhD Committee, 2012-2014), Shadi Eskaf (UNC-Chapel Hill Environmental Sciences and Engineering PhD Committee, 2012-2013), Jie-Sheng Tan Soo (UPEP PhD Committee, 2013-ongoing)

Post-doctoral scholars:

Maksud Bekchanov, International Water Management Institute (2014-ongoing; co-mentor with Dr. Aditya Sood, IWMI); Tewodros Godebo, Duke University (2011-ongoing).

ACADEMIC SERVICE AND PROFESSIONAL AFFILIATIONS

Service: Triangle Resource and Environmental Economics Seminar Organizer (Spring 2015 – ongoing)
EAERE Annual Meeting 2015 Thematic Session Chair: “*Energy and development: The role of clean cook stoves*”
Royster Professor Search Committee, UNC-Chapel Hill (2015)
Duke Global Health Institute Travel Grants Review Committee (2013)
SEA Annual Meeting 2013 Session Organizer: “*The Economics of Environmental Health*”
Organizer: Water, Climate and Health in Africa; Duke University, Durham, NC; March 28-29 2013.
Duke Forward Campaign Panel Participant (Atlanta, GA): February 2, 2013.
Search Committee: Director of Water Program of Nicholas Institute (2011-12)
Search Committee: Faculty Search in Hydrology & Climate Change, Pratt School (2010-11)
Department of Environmental Sciences and Engineering Faculty Search Committee (2007-2008)
UNC-CH School of Public Health Council of Accreditation in Public Health Committee (2006-2009)
Student Global Health Committee Education Chair (2005-6)
Graduate School Orientation Planning Committee (2005-6)

Member: American Economic Association; Association of Environmental and Resource Economists; American Geophysical Union; European Association of Environmental and Resource Economists; Society for Benefit-Cost Analysis; Tau Beta Pi Engineering Honor Society; Phi Beta Kappa.

Reviewer: 2013 Editors’ Citation for Excellence in Refereeing for Water Resources Research
Journals: Environmental & Resource Economics; Economic Development & Cultural Change; Journal of Development Economics; Journal of Environmental Economics & Management; Environment & Resource Economics; Social Science & Medicine; Journal of Water Resources Planning and Management; Water Resources Research; Vaccine; PLOS One; Nature; Water Alternatives; Water; World Development.
Proposals for funding from: National Science Foundation, 3ie, GAVI.

Conference selection committee member: AERE Annual Meetings 2012, 2013, 2015; EAERE Annual Meeting 2013; WCERE Meeting 2014; UNC Water & Health Conference 2015.

RESEARCH SUPPORT

Duke Energy Research Seed Fund Jul. 2015-
 PI: “Sustaining the Benefits of Clean Household Energy Technologies in the Indian Himalayas” (\$35,000)

Sanford School of Public Policy Impact & Innovation Fund
 PI: “The environmental and development impacts of improved stoves: Contextualizing evidence from field experiments in India with that from global research (\$17,000)

National Science Foundation Coupled Human and Natural Systems Sep. 2013-present
 Co-PI: “Balancing Water Needs and Water Uses for Humans and Nature”

Duke – IIMU Collaboration Grant May 2013-present
 PI: “Complementary investments in environmental health” (\$50,000)

USAID CMM Program (Theme: Social and Institutional Resilience and Environment) Oct. 2012-Sep. 2014
 Key investigator: “Responses to Uncertainty about Climate and Water Availability: Evidence from Ethiopia” (\$140,780)

USAID TRAction Project Oct. 2011-Jul. 2014
 Co-PI: “Designing and Evaluating Behavior Change Interventions to Improve the Adoption and Use of Improved Cookstoves” (\$464,706)

DGHI 2-year Pilot Grant in Environmental Health May 2011-Jun 2013
 PI: “Measuring preference tradeoffs associated with technologies for point-of-use drinking water treatment, and linkages with usage and health outcomes in Southeast Asia” (\$50,000)

Duke P-First (Provost Office-Funded) Interdisciplinary Grant Jun. 2011-Dec. 2013
 PI: “Understanding linkages between climate change, water resources and health in Ethiopia” (\$61,500)

World Bank: Ganges Basin Strategic Assessment Feb. 2009-Dec. 2011
 Key investigator: Economic assessment team

World Bank: Eastern Nile Scoping Study and Strategic Economic Planning Study Jan. 2006-Dec. 2011
 Key investigator: Responsible for integrated hydro-economic river basin simulation modeling and economic valuation studies.
