

Curriculum Vitae

Marc A. Jeuland

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Sanford School of Public Policy & Duke Global Health Institute
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EDUCATION

University of North Carolina-Chapel Hill 2004-2009
PhD in Environmental Sciences and Engineering, Minor in Economics (2009)
Dissertation title: *Planning water resources development in an uncertain climate future: A hydro-economic simulation framework applied to the case of the Blue Nile*
Dissertation chair: Dale Whittington
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.

Research Network Member, RWI - Leibniz-Institute for Economic Research Sep 2016-present
Essen, Germany

Senior Research Fellow, International Water Management Institute May 2014-April 2016
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 & WORKSHOPS

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: Economics and Policy.

Short courses

Quantitative survey methods for fieldwork in development; Duke-IIMU Summer Program; Udaipur, India; 2014-16

Risk-based Cost-Benefit Analysis and Monte Carlo Simulation; EEPSEA network; Penang, Malaysia; Fall 2013

Climate Change and Water (with Michael Hanemann and Dale Whittington); LACEEP network; Turrialba, Costa Rica; Summer 2012

Economic Appraisal of Dams; Eastern Nile Technical Regional Office (ENTRO) Workshop; Cairo; Jan. 2007.

Workshop organizer

Duke Workshop on “Water, Climate Change and Health in Africa”; Duke University, Durham, USA; March 2013

Duke Workshop on “Sustainable Energy Transitions”; Duke University, Durham, USA; April 2016 & May 2017

REACH Teaching Fellow Spring 2009

Course: *Water, Cooperation and Conflict (Department of International Studies)* UNC-Chapel Hill

Future Faculty Fellowship Award Winner and Training (UNC-Chapel Hill) May 2008

Graduate Teaching Assistant 2007-2009

Unifying Concepts, Setting Environmental Priorities (Characklis), Public Investment Theory (Whittington) UNC-Chapel Hill

Guest Lecturer 2005

Course: *Interdisciplinary Perspectives in Global Health (Gillings School of Public Health)* UNC-Chapel Hill

PUBLICATIONS – BY TOPIC AREA

Cost-benefit and other policy analysis

1. 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.
2. 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.

3. 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.
4. Poulos, C.; A. Riewpaiboon; J. Stewart; A. Nyamete; S. Guh; J. Clemens; S. K. Bhattacharya; R. Malik; G. Yanning; Z. Bhhutta; 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.
5. 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.
6. **Jeuland, M.**; D. Whittington (2009). "Cost-benefit comparisons of investments in improved water supply and cholera vaccination programs." *Vaccine* 27 (23):3109-3120.
7. **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.
8. **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.
9. 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.
10. **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*.
11. **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*.
12. **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.
13. 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.
14. **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.
15. **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.
16. **Jeuland, M.** & J.S. Tan-Soo (2015). "Analyzing the costs and benefits of clean and improved cooking solutions." *White Paper for the Global Alliance on Clean Cookstoves*. Washington, DC.
17. Whittington, D.; D. Fuente; M. Allaire & **M. Jeuland** (2015). "Forecasts of mortality and the economic losses from poor water and sanitation in sub-Saharan Africa." *Global Water Partnership Paper*. Stockholm, Sweden.

18. Goodman, D.; R. Ramaswamy; **M. Jeuland**; E. Srofenyoh; C. Engmann; A. Olufolabi; M. Owen (2016). “The Cost Effectiveness of a Quality Improvement Program to Reduce Maternal Mortality in a Regional Referral Hospital in Accra, Ghana.” *Revision Requested*.
19. **Jeuland, M.**; J.S. Tan Soo; D. Shindell (2016). “Decomposing the Net Benefits of Household Cooking, Options, Including Effects on Health, Productivity, and Climate.” *Submitted*.

Preferences and demand for environmental improvements

20. 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.
21. **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.
22. 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.
23. 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.
24. 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.
25. **Jeuland, M.**; J. Orgill, A. Shaheed, A., G. Revell & J. Brown (2015). “A matter of good taste: Investigating preferences for in-house water treatment.” *Environment and Development Economics* 21(3): 291-317.
26. **Jeuland, M.**; V Bhojvaid; A Kar; J. Lewis; O. Patange; S.K. Pattanayak; N Ramanathan; I. Rehman; J. Tan Soo; V. Ramanathan (2015) “Preferences for improved cookstoves: Evidence from rural villages in north India” *Energy Economics* 52B: 287-98.
27. Orgill, J.; **M. Jeuland**; N. Cutler; J. Albert (2015). “Coping with irregular water supplies: A comparison of contingent valuation and averting expenditure estimates.” *Submitted*.
28. Shannon, A.; F. Usmani, S. Pattanayak, **M. Jeuland** (2016). “The Price of Purity: Willingness to pay for air and water purification technologies in Rajasthan, India.” *Working Paper*.
29. Morrison, L.; L. Lipinski, **M. Jeuland** (2016). "Changing perceptions of traditional and improved cookstoves: Results from a randomized control trial in Uttarakhand, India. *In preparation*.

Environmental risks, costs, and/or implications for health

30. **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.
31. 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.

32. **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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. **Jeuland, M.** (2014). “Air Pollution Perspective Paper.” *Copenhagen Consensus Center Post-2015 Consensus*. Copenhagen, Denmark.
39. Lunyera, J.; D. Mohottige; M. von Isenburg; **M. Jeuland**; U. Patel; and J. Stanifer (2015). “Chronic Kidney Disease of Uncertain Etiology: A Systematic Review.” *Clinical Journal of the American Society of Nephrology*. doi: 10.2215/CJN.07500715.
40. Rango, T.; **M. Jeuland**; H. Manthritilake; 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.
41. Rango, T.; A. Vengosh; **M. Jeuland** (2016). “Arsenic occurrence and children's exposure in the Main Ethiopian Rift” In: *Progress in Medical Geology*. Cambridge University Press: Cambridge; UK.
42. 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*.
43. Rango, T.; **M. Jeuland**; T. Whitford ; A. Vengosh (2016). “Biomarkers for fluorosis from chronic exposure in drinking water.” *In preparation*.

Environmental health interventions and technologies

44. 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.
45. 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*.
46. 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.

47. 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.
48. Brooks, N.; **M. Jeuland**; J. Lewis; S. Pattanayak (2015). “How much do clean cookstoves reduce biomass fuel consumption? Evidence from North India” *Resource and Energy Economics* 43: 153-171.
49. Brown, J.; A. Hamoudi; **M. Jeuland**; G. Turrini (2016). “Seeing, believing, and behaving: Heterogeneous effects of an information intervention on household water treatment.” *Journal of Environmental Economics & Management* (Accepted).
50. **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.” *Submitted*.
51. Graham, J.; M. Kaur and **M. Jeuland** (2016). “An Analysis of Household Access to Environmental Health Infrastructure and Technologies in 40 Low- and Middle-Income Countries (2008 to 2013).” *Submitted*.
52. Usmani, F.; J. Steele; **M. Jeuland** (2016). “Can economic incentives enhance adoption and sustained use of a household energy technology? Evidence from a pilot study in Cambodia.” *Revise & Resubmit*.
53. Pattanayak, S.K., **M. Jeuland**, J.J. Lewis, V. Bhojvaid, N. Brooks, A. Kar, L. Lipinski, L. Morrison, O. Patange, N. Ramanathan, I.H. Rehman, R. Thadani, F. Usmani, M. Vora, V. Ramanathan. (2016). “Cooking up change in the Himalayas: Evidence from mixing quasi-experiments with an experiment on cookstove promotion.” *Duke Environmental and Energy Economics Working Paper EE-16-3*.

Technology adoption

54. 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.
55. **Jeuland, M.**; R. Bluffstone; S.K. Pattanayak (2015). “The economics of household air pollution.” *Annual Review of Resource Economics* 7: 81-108.
56. Paul, C.; E. Weinthal; M. Bellemare; **M. Jeuland** (2016). “Social capital, trust, and adaptation to climate change: Evidence from rural Ethiopia” *Global Environmental Change* 36: 124-138.
57. **Jeuland, M.**; S.K. Pattanayak; J.S. Tan-Soo (2016). “Preference heterogeneity and adoption of environmental health improvements: Evidence from a cookstove promotion experiment.” *Submitted*.
58. **Jeuland, M.**; S. Pattanayak ; F. Usmani (2016). “The value of acting local: Micro-institutions and adoption of an environmental health-improving technology.” *In preparation*.
59. Clark, S.; X. Yang; M. Shan; E. Carter; **M. Jeuland**; S.K. Pattanayak; J. Baumgartner (2016). “Uptake and use of a gasifier stove and processed biomass fuel intervention in China.” *In Preparation*.

Hydrology and water resource economics

60. **Jeuland, M.** (2007). “Wastewater Reuse in the MENA Region: Constraints, Experiences and Recommendations for the Future.” Report to the World Bank: Washington, DC.
61. 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.

62. Kfourri, 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.
63. **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.
64. **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.
65. **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.
66. 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.
67. Sadoff, C., N. R. Harshadeep, 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.
68. World Bank (2014). Ganges Strategic Basin Assessment: A Discussion of Regional Opportunities and Risks. South Asia Water Initiative Report No. 67668-SAS. World Bank: Washington, DC.
69. Whittington, D.; J. Waterbury; **M. Jeuland** (2014). "The Grand Renaissance Dam and prospects for cooperation on the Nile." *Water Policy* 16: 595-608.
70. **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.
71. **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.
72. 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.
73. **Jeuland, M.** (2015). "Challenges to wastewater reuse in the Middle East and North Africa." *Middle East Development Journal* 7(1): 1-25.
74. 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*. doi 10.1007/s00382-015-2737-4.
75. 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* 40(5-6): 856-876. doi:10.1080/02508060.2015.1051788.
76. Bekchanov, M.; C. Ringler; A. Bhaduri and **M. Jeuland** (2015). "Optimizing irrigation efficiency improvements in the Aral Sea Basin." *Water Resources and Economics* 13: 30-45.
77. **Jeuland, M.** (2015). "Climate change and the Ganges Basin." *Under review*. In: *The Ganges River Basin: Status and challenged in water, environment and livelihoods (Forthcoming)*. L. Bharati, Sharma, A. Nishat, V. Smakhtin (ed.). Earthscan.

78. 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>.
79. **Jeuland, M.**; X. Wu; D. Whittington (2016). “Infrastructure Development and the Economics of Cooperation in the Eastern Nile.” *Water International* (*Accepted*).
80. Wu, X.; **M. Jeuland**; D. Whittington (2016). “Does Hydropolitical Ambiguity Affect Water Resources Development? The Case of the Eastern Nile.” *Policy & Society* (*Accepted*).
81. **Jeuland, M.** (2016). “The case for improving water efficiency in MENA countries.” *Economic Research Forum Policy Brief*; Cairo, Egypt.
82. Jain, S.K.; **M. Jeuland**; L. Bharati, Z.H. Khan (2016). “Surface Water Resources of the Ganga Basin.” In: *The Ganges River Basin: Status and challenged in water, environment and livelihoods* (*Forthcoming*). L. Bharati, Sharma, A. Nishat, V. Smakhtin (ed.). Earthscan.
83. Bekchanov, M.; A. Sood; A. Pinto; **M. Jeuland** (2016). “Hydro-economic models to address river basin management problems: Structure, applications, and research gaps.” *Revision Requested*.
84. **Jeuland, M.** (2016). “Water financing and policy in a new era of infrastructure development.” In: *Water, Security and U.S. Foreign Policy*. World Wildlife Fund.
85. Zeff, H.; G. Characklis; **M. Jeuland**; D. Kaczan; B. Murray & K. Locklier (2016). “Benefits, Costs, and Distributional Impacts of a Groundwater Trading Program in the Diamond Valley, Nevada.” *Nicholas Institute or Environmental Policy Solutions Report NI R 16-02*; Durham, USA.

CONFERENCE PAPERS / INVITED PRESENTATIONS

1. Orgill, J.; **M. Jeuland**; S. Pattanayak (2016). “Environmental health complementarities.” Southern Economic Association Annual Meeting 2016. Washington, DC, November 19-21, 2016.
2. Shannon, A.; F. Usmani, S. Pattanayak, **M. Jeuland** (2016). “The Price of Purity: Willingness to pay for air and water purification technologies in Rajasthan, India.” UNC Water & Health Conference 2016 (*Accepted*), Chapel Hill, NC, October 10-14, 2016.
3. Orgill, J.; **M. Jeuland**; S. Pattanayak (2016). “Sustaining Sanitation: Evidence from Odisha, India on the long-term effectiveness of the shame and subsidy approach.” UNC Water & Health Conference 2016 (*Accepted*), Chapel Hill, NC, October 10-14, 2016.
4. Orgill, J.; **M. Jeuland**; N. Cutler; J. Albert (2015). “Coping with irregular water supplies: A comparison of contingent valuation and averting expenditure estimates.”
AERE Annual Meeting 2016. Breckenridge, CO, June 10-11, 2016.
WEAI Annual Meeting 2016. Portland, OR, June 29-July 3, 2016.
5. **Jeuland, M.**; S. Pattanayak ; F. Usmani (2016). “The value of acting local: Micro-institutions and adoption of an environmental health-improving technology.”
AERE Annual Meeting 2016. Breckenridge, CO, June 10-11, 2016.
SEA Annual Meeting 2016. Washington, DC, November 19-21, 2016.
6. Orgill, J.; N. Cutler; J. Albert; **M. Jeuland**. “Demand for increased water reliability among urban households in Jordan.” APPAM Fall Annual Meeting 2015. Miami, FL, November 10-12, 2015.

7. Pattanayak, S.K., **M. Jeuland** et al. (2015). "Cooking up change in the Himalayas: Evidence from mixing quasi-experiments with an experiment on cookstove promotion." APPAM Fall Annual Meeting 2015. Miami, FL, November 10-12, 2015.
8. Wu, X.; **M. Jeuland**; D. Whittington (2015). "Does Hydropolitical Ambiguity Affect Water Resources Development? The Case of the Eastern Nile." Water Politics and Regional Stability Workshop, Singapore, May 21-23, 2015.
9. **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.
10. **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.
11. **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
AEA Annual Meeting 2016. San Francisco, CA; January 3, 2016.
12. **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.
13. **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.
14. 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.
15. **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.
16. 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.
17. **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.
18. **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.
19. **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.

20. **Jeuland, M.** et al. "Preferences for improved cookstoves: Evidence from India." *AERE Summer Meeting* 2013. Banff, Canada, June 7-8, 2013.
21. **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.
22. **Jeuland, M.** "Water systems and change: Economics, and policy solutions (and limits)." *Duke University Course on Water*. March 19, 2013. Durham, NC.
23. **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.
24. **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.
25. **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.
26. **Jeuland, M.** "Comparative Environmental and Energy Policy." *Session Chair: APPAM Fall Conference 2012*. Baltimore, MD, Nov. 10, 2012.
27. **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.
28. **Jeuland, M.** "Climate Change Impacts on the Economics of Water." *Duke Water Markets Symposium*. Durham, NC, Apr. 1, 2011.
29. **Jeuland, M.** "Panel on International Water Resources: Visions for Development." *Duke in Depth Conference*. Durham, NC, Feb. 26, 2011.
30. **Jeuland, M.** "Which Cost-Effectiveness Intervention Should We Choose?" *Annual Conference of the Benefit-Cost Society*. Washington, DC, Oct. 20, 2010.
31. **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.
32. **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.
33. **Jeuland, M.** "Social Discounting of Large Dams with Climate Change Uncertainty." *World Congress for Environmental and Resource Economics: Montreal, Canada*; July 1, 2010.
34. **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.
35. **Jeuland, M.** "Economic Challenges for Improving Water and Sanitation in Developing Countries." *AEESP Annual Meeting*. University of Iowa, USA, July 27-28, 2009.

36. **Jeuland, M.** "Incorporating Climate Change Considerations into Planning Infrastructure Investments." *Water Week 2009*. The World Bank, Washington, D.C., February 18, 2009.
37. **Jeuland, M.** "Water resources, development, and conflict in Sudan." Chapel Hill, NC, Nov. 24, 2008.
38. Soliman, E.; M. Sayed; **M. Jeuland.** "Nile Basin Simulation using RegCM3." *Blue Nile Capacity-Building Network Annual Meeting*. Cairo, Egypt, Oct. 27-30, 2008.
39. **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.
40. **Jeuland, M.**; D. Whittington. "Comparing investments in improved water supply and vaccination programs." *EAERE 2008*. Gothenburg, Sweden.
41. **Jeuland, M.** "Towards Improved Blue Nile Infrastructure Planning." *Brown Bag Lunch*. World Bank: Washington, D.C.; May 30, 2008
42. **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.
43. **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
44. **Jeuland, M.** "A Cost-Benefit Analysis of Cholera Vaccination in Beira, Mozambique." *Vaccine Congress 2007*. Amsterdam, the Netherlands; December 9-11, 2007.
45. **Jeuland, M.** "Climate Change, and Eastern Nile Hydrology and Planning." *Triangle Resource and Environmental Economics Workshop*. Raleigh, NC; September 27-28, 2007.
46. 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.
47. **Jeuland, M.** "The Economic Benefits of Cholera Vaccines in Mozambique: A Travel Cost Application." *Camp Resources XIV*. Wilmington, NC; August 2006.
48. **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.
49. **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.
50. **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.
51. **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, 2012-13); Allison Rhyne (Public Policy Independent Study, 2012-13); Shajuti Hossain (Public Policy Honors Thesis, 2013-14); Kathryn Abendroth (Environmental Studies Senior Thesis, 2015-16).

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 (2013-14); Daniel Paulk (2014-15); Alisha Pinto (2015-16); Robert Ridel (2016-); Sushmita Samaddar (2016-); Luke Horvath (2016-).

Duke University DGHI Advisees:

Lisa Philippone (2013-15); Alexandra Shannon (2013-15); Bolun Li (2014-16).

Duke University MEM Advisees: Lina Kelpsaitė (2015-16).

Duke University MPP/MIDP / MEM / MsGH 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); Farah Hegazi (2012-13); Prakash Nayak (2012-13); Laura Morrison (2013-14), Ellen Jeffreys-White (2014-15); Jimena Rico-Straffon (2014-15); Shannon Kincaide (2015-16); Jennifer Kunz (2015-16); Austen Edwards (2015-16); Neil Browning (2016-); Jeannie McKinney (2016-).

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); Emily Pakhtigian (PubPol PhD, 2016-).

PhD Committees:

Maria Laurito (PubPol PhD Committee, 2016-ongoing); Jessica Lewis (ENV PhD Committee, 2013-2015); Chris Paul (UPEP PhD Committee, 2011-2016); Jie-Sheng Tan Soo (UPEP PhD Committee, 2013-2015); Ashley Thompson (Civil & Environmental Engineering PhD Committee, 2012-2014); Shadi Eskaf (UNC-Chapel Hill Environmental Sciences and Engineering PhD Committee, 2012-2014).

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

Committees: Sanford Representative to Global Duke Meetings (Spring 2015-ongoing)

MsGH Admissions Committee, DGHI, 2013-2015

MPP Admissions Committee, Sanford, 2012-2014

Royster Professor Search Committee, UNC-Chapel Hill (2015)

Duke Global Health Institute Travel Grants Review Committee (2013)

Duke Forward Campaign Panel Participant (Atlanta, GA): February 2, 2013

DGHI Doctoral Scholars Fellowship Selection Committee (2011-2012)

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)

Service to professional meetings / seminars:

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*”

SEA Annual Meeting 2013 Session Organizer: “*The Economics of Environmental Health*”

Conference selection committee: APPAM Annual Meeting 2016; AERE Annual Meetings 2012-2016;

EAERE Annual Meeting 2013; WCERE Meeting 2014; UNC Water & Health Conference 2015-2016.

Reviewer: 2013 Editors' Citation for Excellence in Refereeing for Water Resources Research

Journals: Journal of the American Environmental and Resource Economics Association; 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-Climate Change; Water Alternatives; Water; World Development; among others.

Proposals for funding from: National Science Foundation, 3ie, GAVI, Royal Society-DFID Africa Capacity Building Initiative.

Member: American Economic Association; Association of Environmental & Resource Economists; Southern Economic Association; Association for Public Policy & Management; European Association of Environmental & Resource Economists; Society for Benefit-Cost Analysis; Tau Beta Pi Engineering Honor Society; Rheinisch-Westfälisches Institut für Wirtschaftsforschung (RWI) Research Network; Phi Beta Kappa.

RESEARCH SUPPORT

3ie Policy Window Proposal Co-PI: "Increasing the effectiveness of improved and clean cookstove interventions in rural Senegal using experimental and quasi-experimental methods" (\$750,765)	Pending
Environment for Development Proposal Key investigator: "Impacts of electric stoves on air pollution and women's welfare in rural India" (\$85,785)	Dec 2016-
Environment for Development Proposal Key investigator: "Comparison of air quality valuation across Asian cities: A pilot study" (\$60,500)	Dec 2016-
World Bank Key investigator: "Basin Modeling of the Brahmaputra River System in Bangladesh"	Nov 2016-
USAID Key investigator: "Sustainable, Just and Productive Water Resources Development in Western Nepal" (\$2.49 million; \$138,166 to Duke)	Jul 2016-
Institute of Water Policy, National University of Singapore, Water Research Grant Co-PI: "Do increasing block tariffs lead to water conservation? Evidence from Hangzhou, China" (\$30,225)	Jul 2016-
Environment for Development Program Co-PI: "Sustainable Energy Transitions Initiative" (\$120,000)	Jan 2016-
Institute of Water Policy, National University of Singapore, Water Research Grant Co-PI: "Long-Term Impacts of Sanitation Promotion in Orissa, India" (\$27,880)	Sep 2015-Dec 2016
Global Alliance for Clean Cookstoves PI: "Analyzing the costs and benefits of clean and improved cooking solutions" (\$29,655)	May 2015-Feb 2016
Duke Energy Research Seed Fund PI: "Sustaining the Benefits of Clean Household Energy Technologies in the Indian Himalayas" (\$35,000)	Jul 2015-
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)	Oct. 2014-
National Science Foundation Coupled Human and Natural Systems	Sep 2013-

Co-PI: “Balancing Water Needs and Water Uses for Humans and Nature” (\$249,700)

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

Institute of Water Policy, National University of Singapore, Research Support Scheme Jan 2014-Mar 2016
 PI: “Community Participation in Urban Water Management” (\$11,320)

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.
