

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)
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

Associate Professor; Duke University Jul 2017-present
Assistant Professor; Duke University 2010-2017
Faculty Director, Energy Access Project (2019-)
Sanford School of Public Policy & Duke Global Health Institute
Secondary appointments: Nicholas School of the Environment; Department of Civil and Environmental Engineering

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

Adjunct Senior Research Fellow, National University of Singapore June 2014-May 2018
Institute for Water Policy, Lee Kwan Yew School of Public Policy

Senior Research Fellow, International Water Management Institute May 2014-April 2016
Colombo, Sri Lanka

Leopold Leadership Program Participant Feb 2015
Navigating the International Sustainability Development Arena Washington D.C.

Research consultancies

Social Impact:	<i>Impact Evaluation of MCC / MCA-J Jordan Water Compact (PI)</i>	2012-present
World Bank:	<i>Ganges Basin Strategic Assessment Economic Modeling Team</i>	2009-2011
	<i>Eastern Nile Scoping Study and Strategic Economic Planning Study</i>	2006-2011
	<i>Integrated Sewerage and Sanitation Improvement Project (ISSIP)</i>	2008
	<i>Middle East and North Africa (MENA) Region Wastewater Reuse Study</i>	2007

Research positions / awards

<i>Research assistant: Diseases of the Most Impoverished (DOMI) Project; Rural Water Project Sustainability Project</i>	2005-2007
<i>Kenan Graduate Student Fellowship (UNC- Chapel Hill)</i>	2004-2009
<i>Research assistant: Excreta and Wastewater Management Division, SANDEC, EAWAG</i>	2004
<i>Research assistant: Swarthmore College Environmental Engineering Laboratory</i>	2000-2001

TEACHING & WORKSHOPS

Associate Professor; Duke University Jul 2017-present
Assistant Professor; Duke University 2010-2017

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

Course: *Water, Cooperation and Conflict (Department of International Studies)*

Spring 2009
UNC-Chapel Hill

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

May 2008

Graduate Teaching Assistant

Unifying Concepts, Setting Environmental Priorities (Characklis), Public Investment Theory (Whittington)

2007-2009
UNC-Chapel Hill

Guest Lecturer

Course: *Interdisciplinary Perspectives in Global Health (Gillings School of Public Health)*

2005
UNC-Chapel Hill

PUBLICATIONS – BY TOPIC AREA

Cost-benefit and other policy analysis

1. Das, I.; J.J. Lewis; R. Ludolph; M. Bertram; H. Adair-Rohani; **M. Jeuland** (2020). “The benefits of action to reduce household air pollution (BAR-HAP) model: A new decision support tool for energy and health sector decision-makers.” *Revision submitted*.
2. Radin, M.; B. Wong; C. McManus; S. Sinha; **M. Jeuland**; E. Larbi; B. Tuffuor; N.K. Biscoff; D. Whittington (2020). “Benefits and Costs of Rural Sanitation Interventions in Ghana.” *Journal of Water, Sanitation and Hygiene for Development*. <https://doi.org/10.2166/washdev.2020.066>.
3. Fuente, D.; M. Allaire; **M. Jeuland**; D. Whittington (2020). “Forecasts of Mortality and Economic Losses from Poor Water and Sanitation in Sub-Saharan Africa”. *PLoS One* 15(3): e0227611. <https://doi.org/10.1371/journal.pone.0227611>.
4. Radin, M., **M. Jeuland**, H. Wang & D. Whittington (2020). “Benefit-Cost Analysis of Community-Led Total Sanitation Campaigns: Incorporating Results from Recent Evaluations.” *Journal of Benefit-Cost Analysis*, 1-38. doi:10.1017/bca.2020.6.

5. Whittington, D.; M. Radin; **M. Jeuland** (2020). “Evidence-based Policy Analysis? The Strange Case of the Randomized Controlled Trials of Community-Led Total Sanitation”. *Oxford Review of Economic Policy* 36(1): 191–221, <https://doi.org/10.1093/oxrep/grz029>.
6. Marzolf, N.; E. Pakhitigian; E. Burton; **M. Jeuland**; S.K. Pattanayak; J. Phillips; C. Eibs-Singer; H. Taylor; . Hallack; J. Cuervo; C. Jacome (2019). “The Energy Access Dividend in Honduras and Haiti”. Inter-American Development Bank: Washington, D.C.
7. Tallis et al. (2019). “Aligning Evidence Generation and Use Across Health, Development and Environment.” *Current Opinion in Environmental Sustainability* 39: 81–93.
8. **Jeuland, M.**; J.S. Tan Soo; D. Shindell (2018). “The need for policies to reduce the costs of cleaner cooking in low income settings: Implications from systematic analysis of costs and benefits.” *Energy Policy* 121: 275-285.
9. Li, L. & **M. Jeuland** (2018). “Do Increasing Block Tariffs promote water conservation? Evidence from a unique pricing reform in Hangzhou, China.” *Submitted*.
10. Goodman, D.; R. Ramaswamy; **M. Jeuland**; E. Srofenyoh; C. Engmann; A. Olufolabi; M. Owen (2017). “The Cost Effectiveness of a Quality Improvement Program to Reduce Maternal Mortality in a Regional Referral Hospital in Accra, Ghana.” *PLoS One* 12(7): e0180929.
11. Tallis et al. (2017). “A Call to Action for Health, Environment, and Development Leaders: A Report by the Bridge Collaborative” & “Bridge Collaborative Practitioner’s Guide: Principles and Guidance for Cross-sector Action Planning and Evidence Evaluation.” Bridge Collaborative: Washington, D.C.
12. 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.
13. **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*.
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.**; 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.
17. 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.
18. **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*.
19. 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.

20. 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.
21. 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.
22. **Jeuland, M.**; D. Whittington (2009). "Cost-benefit comparisons of investments in improved water supply and cholera vaccination programs." *Vaccine* 27 (23):3109-3120.
23. **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.
24. **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.
25. 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.
26. 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.
27. 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.

Preferences and demand for environmental services

28. Hasan, Syed M.; Agha Ali Akram; **M. Jeuland** (2020). "Increasing willingness to pay for urban drinking water service." *Submitted*.
29. Morrison, L.; L. Lipinski, **M. Jeuland** (2019). "Changing perceptions of cooking technologies: Results from a randomized control trial in Uttarakhand, India." *In preparation*.
30. Pakhtigian, E. & **M. Jeuland** (2019). "Valuing the environmental costs of local development: Evidence from households in Western Nepal." *Ecological Economics* 158: 158-167.
31. Grace, D. & **M. Jeuland** (2018). "Preferences for forest attributes along an urbanization gradient in the national capital region of India." *Ecological Economics* 152: 322-335.
32. Shannon, A.; F. Usmani, S. Pattanayak, **M. Jeuland** (2018). "The Price of Purity: Willingness to pay for air and water purification technologies in Rajasthan, India." *Environmental and Resource Economics* 73(4): 1073-1100 <https://doi.org/10.1007/s10640-018-0290-4>.
33. Orgill, J.; **M. Jeuland**; N. Cutler; J. Albert (2017). "Comparing contingent valuation and averting expenditure estimates of the costs of irregular water supply." *Ecological Economics* 146: 250–264.
34. **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.

35. **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.
36. 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.
37. 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.
38. 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.
39. **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.
40. 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.

Environmental risks, costs, and/or implications for health

41. Calder, R.; C. Grady; **M. Jeuland**; C. Kirchhoff; R. Hale; R. Muenich (2020). *COVID-19 reveals vulnerability of the food-energy-water nexus to viral pandemics*. Submitted.
42. Godebo, T.; **M. Jeuland**; R. Tekle-Haimanot; A. Shankar; B. Alemayehu; G. Assefa; G. Whitford; A. Wolfe (2020). “Bone quality in fluoride-exposed populations: A novel application of the ultrasonic method.” *Bone Reports* 12:100235.
43. Paudel, D.; **M. Jeuland**; S.P. Lohani (2020). “Cooking Energy Transition in Nepal: Trend Review.” *Clean Energy Journal* 2020: 1-9. doi: 10.1093/ce/zkaa022.
44. Godebo, T.; C. Paul; R. Tekle-Haimanot; **M. Jeuland** (2019). “Biomonitoring of metals and trace elements in urine of central Ethiopian populations.” *International Journal of Hygiene and Environmental Health* 222(3): 410-418.
45. Li, Li; E. Araral; **M. Jeuland**. (2019). “The Drivers of Household Drinking Water Choices in Singapore: Evidence from Multivariable Regression Analysis of Perceptions and Household Characteristics.” *Science of the Total Environment* 671: 1116-1124.
46. DuChanois, Ryan; E. Liddle; R. Fenner; **M. Jeuland**; B. Evans; O. Cumming; R. Zaman; A. Mujica-Pereira; I. Ross; M. Gribble; J. Brown (2019). “Factors Associated with Water Service Continuity for the Rural Populations of Bangladesh, Pakistan, Ethiopia, and Mozambique.” *Environmental Science and Technology* 53(8): 4355-4363.
47. Paul, C.; **M. Jeuland**; T. Godebo ; E. Weinthal (2018). “Communities coping with risks: Household water choice and environmental health in the Ethiopian Rift Valley.” *Environmental Science and Policy* 86: 85-94.
48. Rango, T.; A. Vengosh; **M. Jeuland**; G. Whitford ; R. Tekle-Haimanot (2017). “Evaluation of biomarkers of chronic exposure to fluoride in groundwater in a highly exposed Rift Valley population.” *Science of the Total Environment* 596-7: 1-11.
49. 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.

50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. **Jeuland, M.** (2014). “Air Pollution Perspective Paper.” *Copenhagen Consensus Center Post-2015 Consensus*. Copenhagen, Denmark.
57. 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.
58. **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.
59. **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.
60. 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.

Environmental and energy interventions and technologies

61. Somanathan, E.; E. Gupta; **M. Jeuland**; R. Kamdar; U. Kumar; T. V. Ninan; V. Chowdhury; S. Chandna; M. Bergin; K. Johnson; C. Norris; T. R. Fetter; S. K. Pattanayak (2020). “Evaluating electric stoves as a solution for household air pollution in the world's most polluted region.” In preparation.
62. Das, I.; T. Klug; P. P. Krishnapriya; V. Plutshack; R. Saparapa; S. Scott; E. Sills; **M. Jeuland**; N. Kara & S.K. Pattanayak. (2020). “A Virtuous Cycle? Reviewing the evidence on women’s empowerment and energy access, frameworks, metrics and methods.” *White Paper*.
63. **Jeuland, M.**, T. R. Fetter, Y. Li, S. K. Pattanayak, F. Usmani, and the Sustainable Energy Transitions Initiative (2020). Is energy a golden thread? A systematic review of the impacts of modern and traditional energy use in low-and middle-income countries. *Renewable and Sustainable Energy Reviews* 135: 110406.

64. **Jeuland, M.**; N. Ohlendorf; R. Saporapa; J. Steckel (2020). "Climate implications of electrification projects in the developing world: A systematic review". *Environmental Research Letters* 15: 103010.
65. Calder, R.; A. Troncoso; R. Marx; V. Mallampalli; S.A. Mason, L.P. Olander; **M. Jeuland**; M.E. Borsuk (2019). "Graphical causal network and evidence characterization for development, environment and health impacts of energy transitions in the developing world." *Environmental Modelling and Software* 130: 104734, <https://doi.org/10.1016/j.envsoft.2020.104734>.
66. **Jeuland, M.**; M. McClatchey; S. Patil; S.K. Pattanayak; C. Poulos; J.C. Yang (2020). "Do decentralized community treatment plants provide better water? Evidence from Andhra Pradesh." *Land Economics (In Press)*.
67. S.K. Pattanayak, **M. Jeuland**, J.J. Lewis, F. Usmani, et al. (2019) "Experimental Evidence on Promotion of Electric and Improved Biomass Cookstoves." *Proceedings of the National Academy of Sciences*. DOI: 10.1073/pnas.1808827166.
68. Orgill-Meyer, J.; S. Pattanayak; N. Chindarkar; K. Dickinson; U. Panda; S. Rai; B. Sahoo; A. Singha; **M. Jeuland** (2019). "Sustaining Sanitation: The Long-Term Impacts of a Community-Led Total Sanitation Campaign." *Bulletin of the World Health Organization*.
69. **Jeuland, M.**; S. Pattanayak ; S. Samaddar; R. Shah; M. Vora (2020). "Adoption and impacts of improved biomass cookstoves in rural Rajasthan." *Energy for Sustainable Development* 57: 149-159.
70. Lewis, J.J.; **M. Jeuland**; J. Baumgartner; A. Blawas; R. Thadani; J.M. Meyer; S.K. Pattanayak. (2019). "Clean cookstove and heater use reduces air pollution and wood consumption in the Himalaya." *Working Paper*.
71. Trent, M.; Dreibelbis, R.; Bir, A.; Tripathi, S.; Labhasetwar, P.; Nagarnaik, P.; Loo, A.; Bain, R.; **Jeuland, M.**; Brown, J. (2018). "Access to household water quality information leads to safer water: a cluster randomized controlled trial in India." *Environmental Science & Technology* 52(9): 5319-29.
72. Graham, J.; M. Kaur and **M. Jeuland** (2018). "Access to Environmental Health Assets across Wealth Strata: Evidence from 41 Low- and Middle-Income Countries." *PLoS One* 13(11): e0207339.
73. Usmani, F.; J. Steele; **M. Jeuland** (2017). "Can economic incentives enhance adoption and sustained use of a household energy technology? Evidence from a pilot study in Cambodia." *Environmental Research Letters* 12(3): 035009.
74. **Jeuland, M.**; J. Orgill (2017). "The economic impacts of large-scale water infrastructure improvements in urban Zarqa, Jordan." *Working Paper*.
75. Brooks, N.; V. Bhojvaid; **M. Jeuland**; J. Lewis; O. Patange; S. Pattanayak (2016). "How much do clean cookstoves reduce biomass fuel consumption? Evidence from North India" *Resource and Energy Economics* 43: 153-171.
76. 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* 86: 141-159.
77. 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.
78. 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.

79. 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.
80. 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*.

Technology adoption

81. Usmani, F.; **M. Jeuland**; S. Pattanayak (2019). “NGOs and the effectiveness of interventions.” *Submitted*.
82. **Jeuland, M.**; S.K. Pattanayak; J.S. Tan-Soo; F. Usmani (2020). “Preferences and the effectiveness of behavior-change interventions: Evidence from adoption of improved cookstoves in India.” *Journal of the Association of Environmental and Resource Economics* 7(2): 305-343.
83. Clark, S.; E. Carter; M. Shan; K. Ni; H. Niu; J.T.W. Tseng; S.K. Pattanayak; **M. Jeuland**; J.J. Schauer; M. Ezzati; C. Wiedinmyer; X. Yang; J. Baumgartner (2017). “Adoption and use of a semi-gasifier cooking and water heating stove and fuel intervention in the Tibetan Plateau, China.” *Environmental Research Letters*, doi.org/10.1088/1748-9326/aa751e.
84. 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.
85. **Jeuland, M.**; R. Bluffstone; S.K. Pattanayak (2015). “The economics of household air pollution.” *Annual Review of Resource Economics* 7: 81-108.
86. 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.

Hydrology and water resource economics

87. Sharma, A.; E. Karki; N. Eriyagama; G. Shrestha; **M. Jeuland**; L. Bharati (2020). “Whose river is it: An assessment of livelihood and cultural water flow requirements for the Karnali.” *Ecology and Society* 25(3): 22.
88. Wheeler, K.; **M. Jeuland**; J. Hall; E. Zagona; D. Whittington (2020). “Understanding and Managing New Risks on the Nile with the Grand Ethiopian Renaissance Dam.” *Nature Communications* 11: 5222.
89. Pakhtigian, E., **M. Jeuland**, L. Bharati & V. Pandey (2019). “The Role of Hydropower in Visions of Water Resources Development for the Rivers of Western Nepal.” *International Journal of Water Resources Development*. DOI: 10.1080/07900627.2019.1600474.
90. Pakhtigian, E.; **M. Jeuland**; S. Dhaubanjari; V. Pandey (2019). “Balancing intersectoral demands in basin-scale planning: The case of Nepal’s western river basins.” *Water Resources and Economics* 30: 100152.
91. **Jeuland, M.** (2020). “The Economics of Dams”. *Oxford Review of Economic Policy* 36(1): 45–68, <https://doi.org/10.1093/oxrep/grz028>.
92. **Jeuland, M.**; M. Moffa; A. Al-Farra (2019). “The contribution of a major urban infrastructure improvement project to reducing water deficits in Jordan.” *International Journal of Water Resources Development (Forthcoming)*.
93. Bekchanov, M.; A. Sood; A. Pinto; **M. Jeuland** (2018). “Systematic Review of Water-Economy Modeling Applications.” *Journal of Water Resources Planning and Management* 143(8). doi:10.1061/(ASCE)WR.1943-5452.0000793.

94. **Jeuland, M.**; K. Hansen, H. Doherty; L. Eastman; M. Tchamkina (2018). “The economic impacts of water information systems: A systematic review” *Water Resources and Economics* 26: 100128. <https://doi.org/10.1016/j.wre.2018.09.001>.
95. Zeff, H.; G. Characklis; **M. Jeuland**; D. Kaczan & B. Murray (2018). “The potential benefits of groundwater trading and reformed water rights in the Diamond Valley, Nevada.” *Journal of Water Resources Planning and Management* 145(6): 05019009.
96. **Jeuland, M.**; X. Wu; D. Whittington (2017). “Infrastructure Development and the Economics of Cooperation in the Eastern Nile.” *Water International* 42(2): 121-141. doi:10.1080/02508060.2017.1278577.
97. Wu, X.; **M. Jeuland**; D. Whittington (2016). “Does Political Ambiguity Affect Water Resources Development? The Case of the Eastern Nile.” *Policy & Society* 35(2): 151-163.
98. **Jeuland, M.** (2016). “The case for improving water efficiency in MENA countries.” *Economic Research Forum Policy Brief*; Cairo, Egypt.
99. 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 challenges in water, environment and livelihoods*. L. Bharati, Sharma, A. Nishat, V. Smakhtin (ed.). Earthscan.
100. **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.
101. **Jeuland, M.** (2015). “Challenges to wastewater reuse in the Middle East and North Africa.” *Middle East Development Journal* 7(1): 1-25.
102. 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.
103. 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.
104. 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.
105. **Jeuland, M.** (2015). “Climate change and the Ganges Basin.” In: *The Ganges River Basin: Status and challenged in water, environment and livelihoods (Forthcoming)*. L. Bharati, Sharma, A. Nishat, V. Smakhtin (ed.). Earthscan.
106. 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>.
107. 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.
108. Whittington, D.; J. Waterbury; **M. Jeuland** (2014). “The Grand Renaissance Dam and prospects for cooperation on the Nile.” *Water Policy* 16: 595-608.
109. **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.
110. **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.

111. 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.
112. **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.
113. 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.
114. 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.
115. **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.
116. **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.
117. 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.
118. 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.
119. **Jeuland, M.** (2007). "Wastewater Reuse in the MENA Region: Constraints, Experiences and Recommendations for the Future." Report to the World Bank: Washington, DC.

Other research

120. Shrestha, G.; E. Pakhtigian & **M. Jeuland** (2018). "Women who do not migrate: Social interactions and participation in western Nepal." *In preparation*.

PUBLICATIONS – BLOGS AND OP-EDS

1. **Jeuland, M.**, S.K. Pattanayak and J. Peters. "[Do improved cooking stoves inevitably go up in smoke? Evidence from India and Senegal.](#)" *VoxDev Energy & Environment*. April 6 2020.
2. Phillips, J.; **M. Jeuland** and E. Pakhtigian. "[New Data and Technologies are Transforming Energy Access – Public Policy Must Catch Up.](#)" *Next Billion Series "New Frontiers in Renewable Energy"*. March 26 2020.
3. Lohani, S.P. & **M. Jeuland**. "[Evidence-based policy needed: For cooking energy transition.](#)" *Himalayan Times*. December 18, 2020

INVITED PRESENTATIONS

1. **Jeuland, M.**, J. Meyer & S. Morgan "The Economic Impacts of Large-Scale Water Infrastructure Improvements in Urban Zarqa, Jordan." *SWELL Online Seminar Series*. June 16, 2020.

2. **Jeuland, M.;** S. Pattanayak; J.S. Tan Soo. "Preference heterogeneity and adoption of environmental health improvements: Evidence from a cookstove promotion experiment."
Inter-American Development Bank Research Seminar; April 17 2019.
3. **Jeuland, M.** "The economics of dams." Arizona State University Workshop on the "New Economics of Water"; October 2018.
4. **Jeuland, M.** et al. (2018). "Sustainable energy transitions in developing countries: What is the state of research?" SEForAll Annual Meeting (Lisbon, Portugal); May 4, 2018.
Millennium Challenge Corporation (Washington, DC); May 31, 2018.
5. **Jeuland, M.;** F. Usmani; S. Pattanayak (2017). "Environment, development, and transaction costs: The role of NGOs." University of Gothenburg, October 2, 2017
6. **Jeuland, M.** (2017). "The economic impacts of water infrastructure improvements in urban Zarqa, Jordan".
National University of Singapore; August 4, 2017.
7. **Jeuland, M.;** M. McClatchey; S.K. Pattanayak; C. Poulos. "Do decentralized community treatment plants provide better water? Evidence from Andhra Pradesh."
Institute of Water Policy Lunch Seminar, National University of Singapore, Singapore; May 18 2015.
8. **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.
9. **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.
10. **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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **Jeuland, M.** "Incorporating Climate Change Considerations into Planning Infrastructure Investments." *Water Week 2009*. The World Bank, Washington, D.C., February 18, 2009.
16. **Jeuland, M.** "Water resources, development, and conflict in Sudan." Chapel Hill, NC, Nov. 24, 2008.

17. Soliman, E.; M. Sayed; **M. Jeuland**. “Nile Basin Simulation using RegCM3.” *Blue Nile Capacity-Building Network Annual Meeting*. Cairo, Egypt, Oct. 27-30, 2008.
18. **Jeuland, M.** “Towards Improved Blue Nile Infrastructure Planning.” *Brown Bag Lunch*. World Bank: Washington, D.C.; May 30, 2008.
19. **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

CONFERENCE PAPERS

20. Morgan, S., J. Meyer, J. Baker & **M. Jeuland** (2020). “Valuing Water Quality with Adaptation: Evidence from a Natural Experiment in Jordan.” Southern Economics Association Annual Meeting (online). Nov. 22 2020.
AERE Annual Meeting (online). June 5 2020.
21. Krishnapriya, P.P., **M. Jeuland**, J. Meyer & S.K. Pattanayak (2020). “Gendered demand for modern cookstoves in the presence of environmental health complementarities.”
Southern Economics Association Annual Meeting (online). Nov. 21 2020.
AERE Annual Meeting (online). June 4 2020.
22. Meyer, J., I. Das & **M. Jeuland** (2020). “Gendered Benefits of LPG Stoves.” Southern Economics Association Annual Meeting (online). Nov. 21 2020.
23. Krishnapriya, P.P., **M. Jeuland** & S.K. Pattanayak (2020). “Eat, Drink, Man, Woman: Do cookstoves improve gender outcomes?” Environment for Development Annual Meeting (online). Nov. 18 2020.
24. Das, I. & **M. Jeuland** (2020). “Willingness to pay for cooking fuels in urban Kenya.” EAERE Annual Meeting (online). June 28 2020.
25. Somanathan, E. et al. (2020). “Evaluating electric stoves as a solution for household air pollution in the world's most polluted region.” EAERE Annual Meeting (online). June 28 2020.
26. **Jeuland, M.**, S.K. Pattanayak; S. Samaddar; R. Shah; M. Vora (2018). “Adoption and short-term impacts of improved biomass cookstoves in Udaipur, Rajasthan.” WCERE Meeting 2018 (Gothenburg, Sweden). June 26-29, 2018.
27. **Jeuland, M.** & J. Orgill-Meyer (2018). “The impacts of large-scale water infrastructure improvements in urban Zarqa, Jordan.” ASSA 2018 Annual Meeting (Philadelphia, PA); January 5, 2018.
28. **Jeuland, M.**; F. Usmani; S. Pattanayak (2017). “Environment, development, and transaction costs: The role of NGOs.” EAERE Annual Meeting (Athens, Greece); June 28, 2017.
Occasional Workshop on Environmental & Resource Economics (UCSB), November 10 2017.
29. **Jeuland, M.** (2017). “The economic impacts of water infrastructure improvements in urban Zarqa, Jordan”.
FAERE Annual Meeting (Nancy, France); September 13, 2017.
ASSA Annual Meeting (Philadelphia, USA); January 5, 2018.
30. Orgill, J.; **M. Jeuland**; S. Pattanayak (2016). “Environmental health complementarities.” Southern Economic Association Annual Meeting 2016. Washington, DC, November 19-21, 2016.
31. 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 (Chapel Hill, USA). October 10-14, 2016.

32. 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 (Chapel Hill, USA). October 10-14, 2016
 WCERE Meeting 2018 (Gothenburg, Sweden). June 26-29, 2018.
 SEA Annual Meeting 2018 (Washington, DC). November 1, 2018.
33. 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.
34. **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.
35. 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.
36. 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.
37. 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.
38. **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.
39. **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.
40. **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.
 EAERE Annual Meeting 2015. Helsinki, Finland, June 27 2015
 AEA Annual Meeting 2016. San Francisco, CA; January 3, 2016.
41. **Jeuland, M.**; J. Brown; A. Hamoudi; G. Turrini. "Heterogeneous effects of information on household behavior to improve water quality."
 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.
42. 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.
43. **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.

44. 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.
45. **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.
46. **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.
47. **Jeuland, M.** et al. "Preferences for improved cookstoves: Evidence from India." *AERE* Summer Meeting 2013. Banff, Canada, June 7-8, 2013.
48. **Jeuland, M.** "Water systems and change: Economics, and policy solutions (and limits)." Duke University Course on Water. March 19, 2013. Durham, NC.
49. **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.
50. **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.
51. **Jeuland, M.** "Comparative Environmental and Energy Policy." Session Chair: APPAM Fall Conference 2012. Baltimore, MD, Nov. 10, 2012.
52. **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.
53. **Jeuland, M.** "Climate Change Impacts on the Economics of Water." Duke Water Markets Symposium. Durham, NC, Apr. 1, 2011.
54. **Jeuland, M.** "Panel on International Water Resources: Visions for Development." Duke in Depth Conference. Durham, NC, Feb. 26, 2011.
55. **Jeuland, M.** "Which Cost-Effectiveness Intervention Should We Choose?" Annual Conference of the Benefit-Cost Society. Washington, DC, Oct. 20, 2010.
56. **Jeuland, M.** "Water Resource under Climate Change: A 'Real Options' Approach." Water and Health Conference. Chapel Hill, NC, Oct. 3, 2011
American Geophysical Union Annual Meeting, San Francisco, CA, Dec. 5, 2011.
57. **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.
58. **Jeuland, M.** "Social Discounting of Large Dams with Climate Change Uncertainty." World Congress for Environmental and Resource Economics: Montreal, Canada; July 1, 2010.
59. **Jeuland, M.** "Economic Challenges for Improving Water and Sanitation in Developing Countries." *AEESP Annual Meeting*. University of Iowa, USA, July 27-28, 2009.
60. **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.

61. **Jeuland, M.**; D. Whittington. "Comparing investments in improved water supply and vaccination programs." *EAERE 2008*. Gothenburg, Sweden.
62. **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.
63. **Jeuland, M.** "A Cost-Benefit Analysis of Cholera Vaccination in Beira, Mozambique." *Vaccine Congress 2007*. Amsterdam, the Netherlands; December 9-11, 2007.
64. **Jeuland, M.** "Climate Change, and Eastern Nile Hydrology and Planning." *Triangle Resource and Environmental Economics Workshop*. Raleigh, NC; September 27-28, 2007.
65. 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.
66. **Jeuland, M.** "The Economic Benefits of Cholera Vaccines in Mozambique: A Travel Cost Application." *Camp Resources XIV*. Wilmington, NC; August 2006.
67. **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.
68. **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.
69. **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.
70. **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); Michelle Moffa (Civil & Environmental Engineering, 2016-17), Harshardvan Sanghi (2018-19); Rachael Lau (2018).

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 Ridell (2016-17); Sushmita Samaddar (2016-17); Luke Horvath (2016-17); Pooja M. Rao (2018-2019); Amanda Ayers (2018-2019); Nick Anuzis (2018-2019).

Duke University DGHI Advisees:

Lisa Philippone (2013-15); Alexandra Shannon (2013-15); Bolun Li (2014-16); Bridget Rogers (2019-20).

Duke University MEM Advisees: Lina Kelpsaitė (2015-16); Sumin Wang (2018-2019); T. Lutken (2018-2019); S. Dong (2018-2019); M. Keppler (2018-2019)

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 (2016-17); Jeannie McKinney (2016-17); Megan Yeh (2018-19); Paelina DeStephano (2019-20); Simon Warren (2019-20); H. Luna (2020-21); M. Vedevevo (2020-21); Z. Jin (2020-21).

Other Thesis Committees: Habib Yakubu Masters Thesis, UNC-Chapel Hill (MS, 2010-11); Patrick Ombiono Masters Thesis, Université de Yaoundé, Cameroon, in French; Kyle Turpin (2018-2019).

PhD Advisees:

Jennifer Meyer (UPEP, 2012-2017); Faraz Usmani (UPEP, 2014-2019); Seth Morgan (UPEP, 2017-); Travis Dauwalter (UPEP, 2017-2019); Maya Chandrasekaran (2019-).

PhD Committees:

Shadi Eskaf (Environmental Sciences and Engineering, UNC-Chapel Hill, 2012-14); Ashley Thompson (Civil & Environmental Engineering, Duke, 2012-14); Jie-Sheng Tan Soo (UPEP, 2013-15); Jessica Lewis (ENV, Duke, 2013-15); Chris Paul (UPEP, 2011-16); Maria Laurito (PubPol PhD, 2016-18); Farah Hegazi (UPEP, 2016-19); Emily Pakhtigian (PubPol, 2016-20); Varun Mallampalli (Civil & Environmental Engineering, Duke, 2019-20); Helena Cardenas (City & Regional Planning, UNC-Chapel Hill, 2018-); Mark Radin (Environmental Sciences & Engineering, UNC-Chapel Hill, 2018-); Kyle Onda (City & Regional Planning, UNC-Chapel Hill, 2018-); Kimberly Bourne (Civil & Environmental Engineering, Duke, 2018-); Ekta Patel (UPEP, 2020-).

Post-doctoral scholars:

Tewodros Godebo, Duke University (2011-17); Maksud Bekchanov, International Water Management Institute (2014-16); Ipsita Das (2018-); Krishnapriya Perumbillissery (2018-).

ACADEMIC SERVICE AND PROFESSIONAL AFFILIATIONS

Committees: Duke Conflict of Interest Committee, 2019-

Duke University Academic Council Representative, 2018-
Sanford PhD Program Steering Committee Member, 2018-
Sanford Representative to Global Duke Meetings, 2015-17
MsGH Admissions Committee, DGHI, 2013-2015; 2018-19
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, 2011-12
Search Committee: Director of Water Program of Nicholas Institute, 2011-12, 2018-2019
Search Committee: Faculty Search in Hydrology & Climate Change, Pratt School, 2010-11
Department of Environmental Sciences and Engineering Faculty Search Committee, 2007-08
UNC-CH School of Public Health Council of Accreditation in Public Health Committee, 2006-09
Student Global Health Committee Education Chair, 2005-06
Graduate School Orientation Planning Committee, 2005-06

Service to professional meetings / seminars:

Bridge Collaborative Co-PI: Air Pollution Working Group (with Sumi Mehta, Global Alliance for Clean Cookstoves)
Triangle Resource and Environmental Economics Seminar Organizer (Spring 2015 – Fall 2017)
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 2012-2013; 2015-2017; EAERE Annual Meetings 2013, 2017; WCERE Meeting 2014, 2018; UNC Water & Health Conference 2015-2018.

Reviewer: Associate Editor, *Water Resources Research*

Section Editor, *Oxford Encyclopedia of Water Resources Management and Policy*
2019 Outstanding Reviewer for *Environmental Research Letters*

Jan 2018-
2018-

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; Water Resources Research; Journal of Water Resources Planning and Management; 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; Phi Beta Kappa.

Other service: World Bank – RISE Advisory Group on Clean Cooking (Expert Advisor); WHO Global Conference on Air Pollution and Health: Improving Air Quality, Combatting Climate Change – Saving Lives (Scientific Advisor); 3ie Systematic Review on development impacts of electrification.

RESEARCH SUPPORT

Clean Cooking Alliance Pending
PI: “Cost-Benefit Analysis of Taxes and Duties on Clean Cooking Solutions in Kenya”

IDRC 2021-
Co-PI: “Engaging women and women’s groups in improved cookstove distribution: the double benefit of clean energy adoption and paid labour opportunities”

NSF: INFEWS U.S.-China 2021-
Co-PI: “Food-Energy-Water Feedback Mechanism, Integrated Modeling and Coordinated Management: A Comparative Study of China Jing-Jin-Ji Region and US Central Valley CA” (Awarded)

World Bank 2020-
PI: “Myanmar Efficient Electric Cooking Solutions”

World Health Organization 2020-
Co-investigator: “Development of the 'Global Assessment of Electricity in Healthcare Facilities' Report”

Environment for Development Proposal 2019-
Co-PI: “Unmasking the mystery of the varying benefits from electrification”

Millennium Challenge Corporation Sep 2018-
PI: “MCC Benin II Off-Grid Energy Access Project Evaluation” (\$1.8 million)

World Health Organization Oct 2018-
PI: “Economic tool for estimating the cost of clean household interventions” (\$42,279)

Global Alliance for Clean Cookstoves Jul 2018-
PI: “Making the Local Case for Clean Cooking” (\$169,699)

India Initiative Award Jan 2018-
Co-PI: “Water Service Provision and Politics in Urban India” (\$18,575)

Environment for Development Proposal Jan 2018-

Co-PI: “Income as a driver of household energy demand and transition in South Africa: Evidence from a regression discontinuity analysis” (\$41,176)

Bridge Collaborative and Nicholas Institute Catalyst Program Grant 2017-2019
 PI: “Does rural energy access promote economic development through improved food and water access?” (\$93,920)

Inter-American Development Bank 2018-2018
 Co-PI: “Energy Access Dividend: Analyses for Honduras and Haiti” (\$40,000)

Duke University Energy Seed Fund 2017-2018
 Co-PI: “Assessment of energy reliability using massive remote sensing imagery data and machine learning” (\$37,120)

3ie Policy Window Proposal 2017-2019
 Co-PI: “Increasing the effectiveness of improved and clean cookstove interventions in rural Senegal using experimental and quasi-experimental methods” (\$563,829)

Environment for Development Proposal 2017-2019
 Co-PI: “Impacts of electric stoves on air pollution and women’s welfare in rural India” (\$85,785)

Environment for Development Proposal 2017-2019
 Co-PI: “Comparison of air quality valuation across Asian cities: A pilot study” (\$60,500)

World Bank 2016-2017
 Co-investigator: “Basin Modeling of the Brahmaputra River System in Bangladesh”

USAID 2016-2019
 Co-investigator: “Sustainable, Just and Productive Water Resources Development in Western Nepal” (\$2.49 million)

Institute of Water Policy, National University of Singapore, Water Research Grant 2016-2018
 Co-PI: “Do increasing block tariffs lead to water conservation? Evidence from Hangzhou, China” (\$30,225)

Environment for Development Program 2016-2020
 Co-PI: “Sustainable Energy Transitions Initiative” (\$600,000)

Institute of Water Policy, National University of Singapore, Water Research Grant 2015-2016
 Co-PI: “Long-Term Impacts of Sanitation Promotion in Orissa, India” (\$27,880)

Global Alliance for Clean Cookstoves 2015-2016
 PI: “Analyzing the costs and benefits of clean and improved cooking solutions” (\$29,655)

Duke Energy Research Seed Fund 2015-2017
 PI: “Sustaining the Benefits of Clean Household Energy Technologies in the Indian Himalayas” (\$35,000)

Sanford School of Public Policy Impact & Innovation Fund 2014-2016
 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 2013-2016
 Co-PI: “Balancing Water Needs and Water Uses for Humans and Nature” (\$249,700)

Duke – IIMU Collaboration Grant 2013-2017
 PI: “Complementary investments in environmental health” (\$50,000)

Institute of Water Policy, National University of Singapore, Research Support Scheme PI: “Community Participation in Urban Water Management” (\$11,320)	2014-2016
USAID CMM Program (Theme: Social and Institutional Resilience and Environment) Co-PI: “Responses to Uncertainty about Climate and Water Availability: Evidence from Ethiopia” (\$140,780)	2012-2014
USAID TRAction Project Co-PI: “Designing and Evaluating Behavior Change Interventions to Improve the Adoption and Use of Improved Cookstoves” (\$464,706)	2011-2014
DGHI 2-year Pilot Grant in Environmental Health 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)	2011-2013
Duke P-First (Provost Office-Funded) Interdisciplinary Grant PI: “Understanding linkages between climate change, water resources and health in Ethiopia” (\$61,500)	2011-2013
World Bank: Ganges Basin Strategic Assessment Co-investigator: Economic assessment team	2009-2011
World Bank: Eastern Nile Scoping Study and Strategic Economic Planning Study Co-investigator: Responsible for integrated hydro-economic river basin simulation modeling and economic valuation studies.	2006-2011
