

JOSEPH H. COOK

School of Economic Sciences
Washington State University
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(updated Jan 2024)

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ACADEMIC APPOINTMENTS

Professor, School of Economic Sciences, Washington State University, Pullman, WA.
Associate Professor Fall 2017-Aug 2023.

Associate Professor, Daniel J. Evans School of Public Policy & Governance, University of Washington, Seattle, WA, 2013-2017. **Assistant Professor**, 2007 - 2013.

Visiting Professor, University of Colorado. Fall 2014 (Economics, CU-Boulder), Spring 2015 (School of Public Affairs, CU-Denver).

EDUCATION

University of North Carolina, Chapel Hill, NC

Department of Environmental Sciences and Engineering, School of Public Health
Environmental Management and Policy, M.S. 2004, Ph.D 2007.

Cornell University, Ithaca, NY

Natural Resources, B.S. 1996

WORKING PAPERS (*paper co-authored with students and mentees.)

In review

WP1*. Cook, J. and W. Sugiarto. 2023. "Measuring consumer demand for tires made without 6PPD". *Under review*.

WP2. Brent, D.A., D. Wrenn, G. Lara, and **J. Cook**. 2023. "Peer effects in residential green infrastructure adoption." *Under review*.

WP3*. M.T. Randriamaro, A. Espinola-Arredondo, D. Fuente and **J. Cook**. 2023. "A theoretical model of utility bill payment behavior". *Under review*.

In progress

WP4.* **Cook, J.**, J. Otieno, D. Fuente, F. Nyakundi, and F. Vásquez Lavín. 2023. "The elasticity of commercial water demand in Nairobi, Kenya".

- WP5.* Randriamaro, T., D. Fuente and J. Cook. 2022. “The dynamics of household water debt in Nairobi, Kenya.”
- WP6. Otieno, J., **J. Cook**, and D. Fuente. 2023. “The coping costs of dealing with unreliable water supply in the Nairobi commercial sector”
- WP7.* Sugiarto,W and **J. Cook**. 2022. “The evidence for behavior change programs in stormwater and water quality: a systematic review and nationwide survey.”
- WP8 * . M.T. Randriamaro and **J. Cook**. 2023. “Why do large US utilities choose the water and sewer tariffs they do? Income redistribution, water scarcity or both?”
- WP9. Fuente, D., R. Mulwa and **J. Cook**. 2024. “Testing approaches to improve customer bill payment in Nairobi, Kenya”.
- WP10. Deol, S., J. Yoder and **J. Cook**. 2024. “The role of nonpecuniary benefits of farming & psychological ownership on water markets: An experiment among water right holders in Washington State.”
- WP11. Deol, S., G. Yorgey, J. Yoder, K. Rajagopalan, M. Brady, D. Haller, J. Padowski, T. Peters, R. Young, and **J. Cook**. 2024. “Experience with and attitudes towards seasonal forecasts, consumptive use monitoring, water rules and regulations, and water markets: A survey of irrigators in four basins in Washington State”

PEER-REVIEWED JOURNAL ARTICLES

(*paper co-authored with students and mentees)

34. **Cook, J.**, J. Kabubo-Mariara and Peter Kimuyu. 2023. “The short-run impacts of reducing water collection times on time use, well-being and education in rural Kenya”. *Economic Development and Cultural Change*, forthcoming.
<https://doi.org/10.1086/727342>
33. Fuente, D., R. Mulwa, and **J. Cook**. 2023. “Out of sight, out of mind: Household perceptions of ‘fair’ water prices in Nairobi, Kenya.” *Water Resources Research*, 59: e2022WR033374. <https://doi.org/10.1029/2022WR033374>
32. *Randriamaro, M.T. and **J. Cook**. 2022. “The value of time, with and without a smartphone”. *J Economic Behaviour & Organization*. 200:138-146.
31. Brent, D., **J. Cook**, and A. Lassiter. 2022. “The effects of eligibility and voluntary participation on the distribution of benefits in environmental programs: an application to green stormwater infrastructure”. *Land Economics*. 98(4): 579-598.
30. **Cook, J.**, J. Kabubo-Mariara and Peter Kimuyu. 2022. “Happy at work in Africa? Measuring hedonic well-being among water carriers in rural Kenya using the Experience Sampling Method”. *J Happiness Studies*, <https://doi.org/10.1007/s10902-022-00509-2>

29. **Cook, J.**, J. Brühl, and M. Visser. 2021. “Distributional statistics of municipal water use during Cape Town’s drought: implications for affordability, conservation and tariff design.” *Water Resources Research*, 57(6): e2020WR028219
<https://doi.org/10.1029/2020WR028219>
28. Brent, D., C. Lott, M. Taylor, **J. Cook**, K. Rollins and S. Stoddard. 2020. “What causes heterogeneous responses to social comparison messages for water conservation?”. *Environmental and Resource Economics*, 77(3): 503-537.
27. Hills, K., G. Yorgey, and **J. Cook**. 2020. “Demand for bio-based fertilizers from dairy manure in Washington State: a small-scale discrete choice experiment.” *Renewable Agriculture and Food Systems*, 1-8. <https://doi.org/10.1017/S174217052000023X>.
26. ***Cook, J.**, J. Wagner, and G. Newell. 2020. “A decision support tool for rural water supply planning”. *J Water Sanitation and Hygiene for Development*, 10(3): 447-457. Tool available at: www.ruralwaterdecision.org
25. **Cook, J.**, D. Fuente, and D. Whittington. 2020. “Choosing among pro-poor policy options in providing municipal water services”. *Water Economics and Policy*, 6(3).
24. *Wagner, J., **J. Cook**, and P. Kimuyu. 2019. “Household demand for water in rural Kenya”. *Environmental and Resource Economics*, 74(4): 1563-1584.
23. Whittington, D. and **J. Cook**. 2019. “Valuing Changes in Time Use in Low and Middle-Income Countries.” *Journal of Benefit-Cost Analysis*, 10(S1): 51-72.
22. ***Cook, J.** and S. Lahren. 2017. “Why do water points fail? Learning from open-ended failure descriptions in the WPDx dataset.” *J Water Sanitation and Hygiene for Development*, 7(4): 535-545.
21. Yoder, J., J. Adam, M. Brady, **J. Cook**, S. Katz, D. Brent, S. Johnston, K. Malek, J. McMillan, Q. Yang. 2017. “Benefit-cost analyses of Integrated Water Resource Management: The Yakima Basin Integrated Plan. *Journal of the American Water Resources Association*, 53(2):456-477.
20. ***Cook, J.**, Kimuyu, P., A. Blum, and J. Gatua. 2016. "Estimating the value of travel time in rural Africa from a stated preference experiment on water source choices". *Journal of Benefit Cost Analysis*, 7(2): 221-247. Available as [RFF-EfD Working Paper 15-09](#).
19. **Cook, J.**, P. Kimuyu, and D. Whittington. 2016. "The costs of coping with poor water supply in rural Kenya." *Water Resources Research* 52: 841-859. Available as [EfD Working Paper 15-08](#).
18. Yoder, J., M. Brady and **J. Cook**. 2016. “Water markets and storage: Substitutes or complements for drought risk mitigation?”. *Water Economics and Policy*, 2(2).

- 17*. Brent, D., **J. Cook**, and S. Olsen. 2015. "Social comparisons, household water use and participation in utility conservation programs: Evidence from three randomized trials." *Journal of the Association of Environmental and Resource Economists* 2(4): 597-627.
- 16*. Donfouet, H., **J. Cook** and P.W. Jeanty. 2015. "The economic value of improved air quality in urban Africa: Results from Douala, Cameroon". *Environment and Development Economics* 20(5):630-649.
15. **Cook, J.** and S. Rabotyagov. 2014. "Assessing irrigators' preferences for water market lease attributes with a stated preferences approach". *Water Resources and Economics* 7: 19-38.
- 14*. Masuda, Y., L. Fortmann, M.K. Gugerty, M. Smith-Nilson, and **J. Cook**. 2014. "Pictorial approaches for measuring time use in rural Ethiopia." *Social Indicators Research*, January 2012. (Corresponding author).
13. **Cook, J.**, S. Chatterjee, D. Sur and D. Whittington. 2013. "Measuring risk aversion among the urban poor in Kolkata, India". *Applied Economics Letters*, 20(1): 1-13.
- 12*. R. Chaudhri, K. Lieberg, R. Sodt, J. Chilton, G. Borriello, Y. Masuda and **J. Cook**. 2012. "Low power sensors and smartphones for tracking water collection in rural Ethiopia". *IEEE Pervasive Computing*. March 2012: 15-24. (Special Issue on Information Communication Technologies for Development (ICT4D)).
11. **Cook, J.**, B. Maskery, M. Jeuland and D. Whittington, 2012. "The case for giving stated preference respondents 'time to think': results from four countries." *Environmental and Resource Economics*, 51: 473-496.
10. **Cook, J.**, M. Jeuland, B. Maskery, D. Lauria, D. Sur, J. Clemens, and D. Whittington. 2009. "Using private demand studies to calculate socially optimal vaccine subsidies in developing countries." *Journal of Policy Analysis and Management*, 28(1): 6-28.
9. **Cook, J.**, D. Sur, J. Clemens, and D. Whittington. 2009. "Evaluating investments in typhoid vaccines in two Kolkata slums." *Journal of Health, Population and Nutrition*, 27(6): 711-724.
8. Jeuland, M., **J. Cook**, C. Poulos, J. Clemens, D. Whittington, and DOMI Cholera Economics Study Group. 2009. "Cost-effectiveness of new-generation oral cholera vaccines: A multi-site analysis". *Value in Health*, 12(6): 899-908.
7. Whittington, D., D. Sur, **J. Cook**, S. Chatterjee, B. Maskery, M. Lahiri, C. Poulos, S. Boral, A. Nyamete, J. Deen, L. Ochiai and S. K. Bhattacharya. 2008. "Rethinking cholera and typhoid vaccination policies for the poor: Private demand in Kolkata, India." *World Development*, 37(2): 399-409.

6. **Cook, J.**, M. Jeuland, D. Whittington, C.Poulos, J. Clemens, D.Sur, D. D.Anh, M. Agtini, and Z.Bhutta. 2008. “The cost-effectiveness of typhoid Vi vaccination programs: Calculations for four urban sites in four Asian countries.” *Vaccine*, 26: 6305-6316.
5. Kim, D., D. G. Canh, C. Poulos, L. T. K. Thoa, **J. Cook**, N. T. Hoa, A. Nyamete, D. T. D. Thuy, J. Deen, N. D. Son, J. Clemens, D. D. Trach, V. D. Thiem, D. D. Anh, and D. Whittington. 2008. “Private demand for cholera vaccines in Hue, Vietnam.” *Value in Health*, 11(1): 119-128.
4. **Cook, J.**, D. Whittington, D.G. Cahn, F. Reed Johnson, and A. Nyamete. 2007. “Reliability of stated preferences for cholera and typhoid vaccines with time to think in Hue, Vietnam.” *Economic Inquiry*, 45(1): 100-114.
3. Sur, D., **J. Cook**, S. Chatterjee, J. Deen, D. Whittington. 2006. “Increasing the transparency of stated choice studies for policy analysis: designing experiments to produce policy graphs.” *Journal of Policy Analysis and Management*, 26(1): 189-199. (Corresponding author)
2. Blackman, A., S. Newbold, J.-S. Shih, D. Evans, **J. Cook** and M. Batz. 2006. “The benefits and costs of informal sector pollution control: Traditional Mexican brick kilns.” *Environment and Development Economics* 11(5): 603-627.
1. Whittington, D., D. Lauria, V. Prabhu and **J. Cook**. 2004. “An economic reappraisal of the Melamchi water supply project – Kathmandu, Nepal.” *Portuguese Economic Journal* 3: 157-178.

BOOK CHAPTERS and OTHER (Peer-reviewed)

- B7. Cook, J., M. Jeuland, M. Chandrasekaran and D. Whittington. 2024. The value of time in low- and middle-income countries. Under contract from Oxford University Press, in preparation 2024-2025.
- B6. Chandrasekaran, M., **J. Cook** and M. Jeuland. 2022. “The evidence base for time savings benefits in water and sanitation interventions.” In *Oxford Research Encyclopedia of Global Public Health*. Oxford University Press.
<https://doi.org/10.1093/acrefore/9780190632366.013.364>
- B5. **Cook, J.** and D. Brent. 2021. "Do households respond to the marginal or average price of piped water services?" In *Oxford Encyclopedia of Water, Sanitation, and Global Health*. Ed. . New York: Oxford University Press.
<https://doi.org/10.1093/acrefore/9780190632366.013.244>
- B4. **Cook, J.** 2020. “Customer Assistance Programs and Affordability Issues in Water Supply and Sanitation”. In *Oxford Encyclopedia of Water, Sanitation, and Global Health*.

Ed. . New York: Oxford University Press.
<https://doi.org/10.1093/acrefore/9780190632366.013.247>

- B3. **Cook, J.**, D. Fuente, M. Matichich, and D. Whittington. 2020. “A global assessment of non-tariff customer assistance programs in water supply and sanitation.” In Z. Chen, W. M. Bowen, and D. Whittington, eds. *Development Studies in Regional Science: Essays in Honor of Kingsley E. Haynes*. Springer Nature.
- B2. **Cook, J.** 2013. “Principles and standards for benefit-cost analysis of public health preparedness and pandemic mitigation programs”. In *Principles and Standards for Benefit-Cost Analysis*. Eds. R. Scott Farrow and Richard O. Zerbe. Edward Elgar.
- B1. Blackman, A., S. Newbold, J.-S. Shih, D.A. Evans, **J. Cook**, and M. Batz. 2006. “The benefits and costs of controlling small-firm pollution: informal brickmaking in Ciudad Juarez, Mexico”. Chapter 2 in *“Small Firms and the Environment in Developing Countries: Collective Impacts, Collective Action”*. RFF Press, Washington DC. 246 pp.

REPORTS AND OTHER NON-PEER REVIEWED WORK

- R9. **Cook, J.** 2023. “Millions of Americans struggle to pay their water bills – here’s how a national water aid program could work.” Chapter 9 in *The Conversation on Water*. Andrea Gerlak, editor. Johns Hopkins University Press.
- R8. Amaechina, E., A. Amoah, F. Amuakwa-Mensa, S. Amuakwa-Mensa, E. Bbaale, J. Bonilla, J. Bruhl, **J. Cook**, N. Chukwuone, D. Fuente, R. Madrigal-Ballesteros, R. Marin, P. Khanh Nam, J. Otieno, R. Ponce, C. Saldarriaga, F. Vasquez Lavin, B. Viguera, and M. Visser. 2020. “Policy Responses to Ensure Access to Water and Sanitation Services During COVID-19: Snapshots from the Environment for Development (EfD) Network.” *Water Economics and Policy*, 6(4): 2071002. [Corresponding author]
- R7. **Cook, J.** and D. Whittington. 2020. “Editorial - Water Tariffs and Affordability: The Economics and Policy of Protecting the Poor.” Introduction from Guest Editors to Special Issue of *Water Economics and Policy*. 6(3): 1-9.
- R6. Katz, S., H. Beecher, M. Brady, **J. Cook**, K. Gates, J. Padowski, G. Pess, M. Scheuerell, and J. Yoder. 2019. “Technical Supplement: Determining Net Ecological Benefit”, appendix to “Final Guidance for Determining Net Ecological Benefit”
<https://fortress.wa.gov/ecy/publications/documents/1911079.pdf>
- R5. Barnes, N., Fuente, D., **Cook, J.**, Whittington, D., Jackson, D. Matichich, M. 2018. Handbook of Water Sector Tariff Setting: Balancing Cost-of-Service Equity and Social Equity. Prepared for the United States Millennium Challenge Corporation.

- R4. Yoder, J., J. Adam, M. Brady, **J. Cook** and S. Katz. 2014. "Benefit-cost analysis of the Yakima Basin Integrated Plan Projects." Submitted to the Washington State Legislature December 15, 2014.
- R3. **Cook, J.** and J. Onjala. "Microfinance in the water supply and sanitation sector in Kenya" (August 2009). Prepared for Global Water Challenge, with support from the Packard Foundation. Online at:
http://water.3cdn.net/cedec9aa55ab5b6ed9_slm6ivaye.pdf
- R2. **Cook, J.** "Confusion in risk aversion experiments in low-income countries". [SSRN Working Paper](#).
- R1. Borger, T. and **J. Cook**. 2017 "Giving respondents 'time to think' reduces the randomness of responses in repeated discrete choice tasks". [University of St. Andrews Discussion Papers in Environmental Economics](#) 2016-13.

GRANTS (total = \$6.13 million; as PI or Co-PI = \$593k)

- G13. "Replacement and lifecycle costs of permeable pavements compared with standard impervious pavements". Washington State Department of Ecology. Ani Jayakaran (PI) and Joseph Cook. ~\$152,000. 2023-2025.
- G12. "Measuring consumer demand for 'Salmon-Safe' tires made without 6-PPD". Salmon Safe. Joseph Cook (PI). **\$3,120**. 2022-23.
- G11. "Urban water scarcity and affordability in the Global South: A network of observatories and policy studies." Environment for Development initiative. Róger Madrigal (PI), R. Mulwa, J. Otieno, E. Bbaale, R. Ponce, F. Vásquez-Lavín, A. Amoah, J. Cook, D. Fuente, b. Viguera, M. Visser. **\$65,500**. 2022-2023.
- G10. "Evaluating the Effectiveness of Stormwater Education and Outreach: Permittee Guidance for Addressing Challenges through Behavior Change." Washington State Department of Ecology. Joseph Cook (PI), Ani Jayakaran, Laurie Larson-Pugh, Aimee Navickis-Brasch. **\$270,100**. 2021-2022
- G9. "Subsidies, incentives, and information: Testing approaches to improve customer bill payment in Nairobi, Kenya." Richard Mulwa (PI), David Fuente, Fridah Nyakundi, Jackson Otieno and Joseph Cook. Environment for Development initiative. **\$60,000**. 2020-2021
- G8. "Water use in the Kenyan commercial Sector: Measuring price elasticity and coping strategies to deal with unreliability." Jackson Otieno (PI), David Fuente, Fridah Nyakundi, and Joseph Cook. Environment for Development initiative. **\$70,000**. 2020-2021

G7. “Technology for trade: new tools and new rules for water use efficiency in agriculture and beyond”. USDA National Institute of Food and Agriculture (NIFA). PI Jon Yoder. Total award **\$4,966,223**. Co-I Cook leading component on surveys, simulation games to identify how irrigators interact with technologies and institutional innovations, and test behavioral responses and outcomes; direct budget ~\$553,000. 2018-2022.

G6. “Defining Net Ecological Benefit for implementation of ESSB 6091”. Washington State Department of Ecology. PI Jon Yoder. **\$72,000**. 2018-19.

G5. “Short- and long-term effects of exogenously reducing water collection times on school attendance, hours studying and time use: Meru County, Kenya.” Environment for Development Initiative. Co-PI (with Jane Mariara and Peter Kimuyu). **\$75,000**. 2016-2017.

G4. “Evaluating Truckee Meadows Water Authority’s Conservation Messaging, Co-Investigator (with Kim Rollins (PI), Shawn Stoddard, Michael Taylor, Daniel Brent, and Corey Lott), Truckee Meadows Water Authority, **\$69,002**. 2015-2016.

G3. “Benefit-cost analyses of the Yakima Basin Integrated Plan Projects.” Washington State Legislature, Section 5057, State of Washington Capital Budget 2013. Co-investigator (with Jon Yoder (PI), J. Adam, M. Brady, S. Katz, D. Brent, S. Johnston, K. Malek, J. McMillan, and Q. Yang). **\$300,000**. 2013-2014.

G2. “How does improving access to safe water change household time use in rural Ethiopia?” University of Washington Royalty Research Fund. Principal Investigator. **\$39,750**. June 2010 – June 2011.

G1. “Adapting to climate-induced hydrological changes in the Yakima River basin of Washington State: unlocking water markets”. University of Washington Environmental Institute (College of the Environment). Co-PI (with Sergey Rabotyagov) **\$143,468**. March 2010 – June 2012.

EXTENSION and OUTREACH (since 2017)

My program focuses on informing local and state policymakers on issues around water resources. Research and extension topics include non-market valuation and survey-based approaches, benefit-cost analysis, and providing policy and behavioral solutions, especially as they pertain to the economics of stormwater management. My work also focuses on policy around water markets, the voluntary sale or lease of water rights, in Washington state and their potential for mitigating the impact of drought. Because many policy solutions and infrastructure investments for both water scarcity and water quality involve additional ratepayer costs, I also focus on advice for utilities in designing assistance programs to ensure that their poorest customers can afford modern water and sanitation services.

Extension media and blogposts

- “Millions of Americans struggle to pay their water bills – here’s how a national water aid program could work”. [The Conversation](#). Nov. 29, 2021. Reprinted in the [Chicago Sun-Times](#), [SmartWater Magazine](#), [The Big Issue](#) (Japan), and as book chapter (see R9). Draws from paper 25, B3, B4, and WP2; related to water and sewer customer assistance programs database below.
- [UNC WASH Policy Research Digest](#), April 2021. Podcast interview about guest-edited special issue on affordability in water in *Water Economics and Policy* (see R6).
- “[Tech for Trade Survey Summary](#)”, Sept 2021. Distributed to NIFA TFT Advisory Committee and survey participants (on water markets; see grant G7).
- [Would you lease your water rights? The devil is in the details](#)”, WSU CSANR, Nicole Bell. October 5, 2021. Editorial support. Based on Paper #15 (Cook & Rabotyagov).
- KUOW “The Record”, live interview on water markets, [August 21, 2019](#).
- NPR “Marketplace”, interviewed on water markets, [February 17, 2017](#).

Extension presentations and panels

- “Economics and water markets”. Methow Watershed Council, November 2023.
- “Thoughts on customer assistance programs in water and sewer in the US.” National Association of State Utility Consumer Advocates (NASUCA), May 12, 2022.
- Panelist for 2022 Lane Lecture (WSU School of the Environment) featuring Catherine Coleman-Flowers, “Environmental Justice in rural America”, Feb. 16, 2022
- Invited testimony on water markets to Washington State Legislature, House Rural Development and Natural Resources subcommittee. February 25, 2020.
- Invited presentation “Water Marketing” for Seminar Group conference “Water Law in Central Washington”, August 2020 and November 2020.
- “The economics of Green Stormwater Infrastructure (GSI): thoughts from a newcomer”. Urban Green Infrastructure summit Tigard, OR. Feb 21-22, 2018.

Extension Advisory Services

- Member, Stormwater Strategic Initiative Lead Advisory Team (SIAT). Provides expert opinion and recommendations to the Stormwater Strategic Initiative Lead Team (SIL) to develop implementation strategies, review recovery plans, and policy recommendations for Puget Sound recovery. Apr 2022-Dec 2023.
- Section Editor for Stormwater Policy & Management, *Oxford Encyclopedia of Water, Sanitation, and Global Health*. 2018-2022
- Member, Washington State Academy of Sciences (WSAS) Committee to advise the Washington Department of Fish and Wildlife on fish hatchery reform. 2018-2019
- External peer reviewer, “Technical Report on Economic Model for the Development of Water Loss Performance Standards”, California State Water Resources Control Board, December 2020.

Extension websites

- Water and sewer customer assistance programs in the U.S. (<https://waterassistanceprograms.org/>)
- Tools and Resources for Behavior Change Programs in Stormwater and Water Quality (www.waterbehaviorchange.org; see grant G10)

HONORS and AWARDS

Excellence in Teaching Award (Evans School University of Washington, student-awarded),

- 2010-2011
- 2015-2016

Dean's Excellence in Teaching Award, 2013

Bruce Gardner Memorial Prize for Applied Policy Analysis, Agricultural and Applied Economics Association, 2016, for "Benefit-cost analyses of the Yakima Basin Integrated Plan Projects".

CONSULTING

Millennium Challenge Corporation (subcontract to CH2M and CVM), Washington DC. October 2017 - June 2018. Led a team that reviewed the existing literature on pro-poor water pricing policies around the world, including "customer assistance programs" (CAPs) in the U.S. and Europe.

Global Water Challenge, Washington, D.C. August 2008 – August 2009. Consultant. Examined the potential for using microfinance and other innovative forms of financing to improve access to water supply and sanitation in Kenya and Ethiopia.

The Hopi Tribe, Kykotsmovi, AZ, June 2005-2008. Consultant. With Dale Whittington and Michael Hanemann. Led survey of households living on the Hopi reservation to support the Tribe's water rights claim in the Little Colorado River Basin adjudication.

Asian Development Bank, March 2003, consultant. With Dale Whittington, Donald Lauria, and Vimalanand Prabhu. Designed a user-interfaced, probabilistic spreadsheet model of the economic costs and benefits of the Melamchi Water Supply Scheme in Kathmandu, Nepal to support an economic reappraisal of the project.

OTHER PRESENTATIONS & MEDIA (since 2014)

- "Testing approaches to improve customer bill payment in Nairobi, Kenya." UNC Water and Health Conference. October 2023, Chapel Hill NC
- "The elasticity of commercial water demand in Nairobi, Kenya". EAERE Annual Conference, Limassol, Cyprus, June 2023.
- "The dynamics of household water debt in Nairobi, Kenya". Efd annual Meeting 2023 (Kampala, Uganda, October 2023) and EAERE Annual Conference (Limassol, Cyprus, June 2023).
- "The short run impacts of reducing water collection times on time use, well-being and education in rural Kenya." WASH Economics Conference, London UK, April 2023.

- “Value of time, with and without your smartphone.” Society of Benefit-Cost Analysis Annual Conference, February 2021
- “A decision support tool for rural water supply planning”. Environment for Development Annual Meeting, November 2019.
- “Happy at work in Africa? Measuring time use and affect among water carriers in rural Kenya using the Experience Sampling Method”. Invited presentation, University of California Riverside, February 2019.
- “A global assessment of non-tariff customer assistance programs in water supply and sanitation”. World Congress of Environmental and Resource Economists, Gothenburg, Sweden, 2018.
- “WSU report says water plan overvalues fish recovery.” *Seattle Times*, [December 18, 2014](#). (Yakima Report to Legislature)
- “WSU Study: Yakima Basin projects don’t pencil out.” *Capital Press*, [December 15, 2014](#) (Yakima Report to Legislature)
- “WSU study challenges economics of Yakima Basin water plan.” *Yakima Herald-Republic*. [December 4, 2014](#). (Yakima Report to Legislature).

TEACHING

Washington State University

- EconS 101 Principles of Microeconomics (undergraduate, 2023-24)
- EconS 301 Intermediate Microeconomics with Calculus (undergraduate; 2017-2023)
- EconS 581 Resource Economics (doctoral; 2018-2022)

University of Washington (all masters-level courses)

- PBAF 594 Economic Approaches to Environmental Management (2015)
- PBAF 595 Water Resource Economics (2009, 2011, 2012, 2017)
- PBAF 517 Economics for Policy Analysis and Management II (2011, 2012, 2013)
- PBAF 587 Water and Sanitation Policy in Developing Countries (2008, 2009, 2010, 2011, 2013)
- PBAF 518 Applied Benefit-Cost Analysis (2010, 2012, 2017)
- PBAF 527 Quantitative Analysis (2008, 2009, 2010)
- PBAF 521/CFR 529/ESRM 429 Water Center Seminar (2011)
- PBAF 599D Special Topics: Updating the principles and guidelines used in benefit-cost analyses of large water projects by the Army Corps of Engineers (for the Congressional Research Service). Co-taught with Richard Zerbe. (2009)

Short courses

- “Valuing time savings in low- and middle-income countries”, October 27-28, 2022. Society for Benefit Cost Analysis. With Dale Whittington, Marc Jeuland and Maya Chandrasekaran.
- “Executive Economics”, 3-day short course for Evans School Executive MPA program. Taught 2014, 2015, 2016

- “Stated Preference Methods”, May 12-13, 2011. Center for Environmental Economics and Policy in Africa (CEEPA), Pretoria, South Africa

STUDENT ADVISING

Washington State University

Current

Putriesti Mandasari (PhD, Economics, chair)
 Nabittun Bahar (PhD, Economics, chair)
 Suhina Deol (PhD, Economics, chair)
 Banguning Asgha (PhD, Economics, co-chair)
 Aditi Surve (PhD, Economics, member)
 Ajay Barman (PhD, Economics, member)
 Reetwika Basu (PhD, Economics, member)
 Jae Young Hwang (PhD, Economics, member)
 Almira Salimgarieva (PhD, Economics, member)
 Wisnu Sugiarto (PhD, Economics, member)

Graduates

Mary Tiana Randriamaro (PhD, Economics, chair, 2022. A2F Consulting, Rockville MD)
 Nicholas Potter (PhD, Economics, member, 2021. USDA ERS)
 Jake Wagner (PhD, Economics, chair, 2020. Assistant Research Professor, WSU)
 Pedro Jimenez (MS, Economics, member, 2021)
 Aditi Surve (MS, Economics, member 2020)
 Pedro Jimenez (MS, Economics, member, 2021)
 Linda Umwali (MS, Economics, member, 2020)
 Richard Houghton (MS, Economics, chair, 2020)
 Rokas Piliusenko (MS, Economics, chair, 2020)

Outside WSU

Maya Chandrasekaran (Duke University, Public Policy, PhD, Member, 2022-current)
 Saumitra Sinha (UNC Chapel Hill, Dept of City and Regional Planning, Member, 2022-current)

University of Washington

Tyler Blake-Davis (PhD, Evans, 2018, committee member. Principal Project Manager, Amazon)
 Susan Dickerson-Lange (PhD, Civil and Environmental Engineering, 2016, committee member. Hydrologist, Natural Systems Design)
 Yuta Masuda (PhD, Evans, 2014, chair. Senior Sustainable Development and Behavioral Scientist, The Nature Conservancy)
 Skylar Olsen (PhD, Economics, 2014, committee member. Senior Economist Zillow)

Julie Vano (PhD, Civil and Environmental Engineering, 2013, committee member. Research Director, Aspen Global Change Institute)
Daniel Brent (PhD, Economics, 2013, committee member, Assistant Professor, Penn State University)
Laura Fricke (MS, Evans, 2013)
Matthew Schoellhamer (MS, Forest Resources, committee member)
Patrick Green (MUP, Urban Planning, 2012, committee member)
Erin Donley (MS, Forest Resources, 2010, committee member)
Evans School Degree Projects: Cairns, Cammarano, Gilbert, Levin, Rosenberg, Smith, Stampher, Sztern, Trimble)

SERVICE

University Committees & Service:

Director's Advisory Committee, WSU, 2019-current
Search committee, WSU, 2019, 2022
Undergraduate studies, WSU, 2018-current
Co-advisor, University of Washington chapter of Engineers without Borders (2014-16)
Graduate Program Coordinator (UW Evans, 2012-2014)
UW Graduate School Council (2012-2014)
Faculty Council (UW Evans, 2011-2013)
Peace Corps Master International (PCMI), Faculty Director (UW Evans, 2008-2014)
Admissions (UW Evans, 2010-11)
Curriculum (UW Evans, 2007-08, 10-11)
Research Committee (UW Evans, 2008-09)
Diversity Oversight (UW Evans, 2009)

External

Network member, Environment for Development (EfD) Kenya, School of Economics, University of Nairobi, 2013 – present.

Member, Editorial Board. Environment for Development (EfD) Discussion Paper Series. 2019-current.

Member, Expert Consultative Group on Global Monitoring of Water, Sanitation, and Hygiene (WASH) Affordability, Joint Monitoring Programme (WHO, UNICEF), 2018-2020.

Resource Person (responsible for proposal reviews and mentoring) for *Center for Environmental Economics and Policy in Africa* (CEEPA), Pretoria, South Africa, 2009 – 2015.

Referee: *Proceedings of the National Academy of Sciences (PNAS)*, *Journal of Environmental Economics and Management*, *American Journal of Agricultural Economics*, *Nature Human Behavior*, *Environmental & Resource Economics*, *Environment and*

Development Economics, Health Economics, Water Resources Research, Water Economics and Policy, Water Resources and Economics, Agricultural Economics, Social Science and Medicine, Journal of Environmental Management, J. Contemporary Water Research and Education, National Science Foundation (SES-Economics).