

# Jonathan Keith Yoder

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## Education

PhD, Economics. Minor, Statistics. 1999. [North Carolina State University](#)  
MS, Applied Economics. 1994. [Montana State University](#)  
BA, Biology and journalism, certif. African Studies. 1990. [Indiana University](#)

## Academic Employment

2012 – present. Professor, [School of Economic Sciences, Washington State University](#).  
2020-present. Distinguished Professor for Sustainable Development (Endowed Chair).  
2014 – present. Director, State of Washington Water Research Center.  
2010 – present. Affiliate Faculty, [Paul G. Allen School for Global Health, WSU](#).  
2006 – 2012. Associate Professor, School of Economic Sciences, Washington State University.  
2002 – 2006. Assistant Professor, School of Economic Sciences, Washington State University.  
2000 – 2002. Assistant Professor, [Dept. of Agricultural Economics, Oklahoma State University](#).  
Sept. 1999 – Jan. 2000. Post-Doctoral Fellow, [Center for Environmental and Natural Resource Economics Policy](#), North Carolina State University.

## Journal articles, refereed

Otiang, Elkanah, Jonathan Yoder, Shanthi Manian, Zoë A. Campbell, Samuel M. Thumbi, Lucy W. Njagi, Philip N. Nyaga, and Guy H. Palmer. 2022. Vaccination of household chickens results in a shift in young children's diet and improves child growth in rural Kenya. *Proceedings of the National Academy of Sciences* 119:e2122389119. <https://doi.org/10.1073/pnas.2122389119>. [PNAS Cozzarelli Prize](#) Finalist (runner-up) for Class IV (Applied Biological, Agricultural, and Environmental Sciences section).

Oh, Hyunjung, Jonathan Yoder, and Robert Quinlan. 2022. Crop Diversification, Impulsivity, and Resilience in Ethiopia. *Review of Development Economics*, 1–23. <https://doi.org/10.1111/rode.12919>.

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- Davis, Alicia, Jennika Virhia, Catherine Bunga, Shayo Alkara, Sarah Cleaveland, Jonathan Yoder, Safari Kinung'hi, Felix Lankester. 2022. [“Using the same hand”: The Complex local perceptions of Integrated One Health based interventions in East Africa](#). *PLOS Neglected Tropical Diseases* 16(4): e0010298. <https://doi.org/10.1371/journal.pntd.0010298>.
- Khanal, Rajendra, Michael P. Brady, Claudio O. Stöckle, Kirti Rajagopalan, Jonathan Yoder, and Michael E. Barber. 2021. The Economic and Environmental Benefits of Partial Leasing of Agricultural Water Rights. *Water Resources Research*. DOI: <https://doi.org/10.1029/2021WR029712>.
- Malek, Keyvan, Jennifer Adam, Jonathan Yoder, Jennifer Givens, Claudio Stöckle, Michael Brady, Tina Karimi, Kirti Rajagopalan, Mingliang Liu, Patrick Reed. 2021. Impacts of irrigation efficiency on water-dependent sectors are heavily controlled by region-specific institutions and infrastructures. *Journal of Environmental Management* 300. <https://doi.org/10.1016/j.jenvman.2021.113731>.
- Ahmed, Haseeb, Jonathan Yoder, William De Glanville, Alicia Davis, Tito J. Kibona, and Sarah Cleaveland. Relationships between vaccinations, herd introductions, and livestock losses in Northern Tanzania. 2021. *Agricultural and Resource Economics Review*: 1-19. <https://doi.org/10.1017/age.2021.11>.
- Changalucha, Joel, Katie Hampson, Gurdeep Jaswant, Felix Lankester, and Jonathan Yoder. 2021. Human rabies: prospects for elimination. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 16, no. 039 (2021). <https://www.cabi.org/cabreviews/review/20210276011>.
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- Bayham, Jude and Jonathan Yoder. 2020. [Resource Allocation Under Fire](#). *Land Economics* 96(1):92-110, doi:10.3368/le.96.1.92.
- Lankester, Felix, Alicia Davis, Safari Kinung'hi, Jonathan Yoder, Catharine Bunga, Shayo Alkara, Imam Mzimhiri, Sarah Cleaveland, Guy Palmer. 2019. [An integrated health delivery platform, targeting soil-transmitted helminths \(STH\) and canine mediated human rabies, results in cost savings and increased breadth of treatment for STH in remote communities in Tanzania](#). *BMC Public Health* 19:1398.
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- Lee, Hsiang-Tai, Jill McCluskey, & Jonathan Yoder. 2007. [Mexican Household Food Shopping Behavior across Grocery Formats](#). *Journal of International Agricultural Trade and Development* 3(2):247-258.
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## Books, chapters in books, monographs

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- Yoder, Jonathan. 2012. *Fuel for the fire: Liability and the economics of wildfire risk*. Chapter 3 in *Wildfire: Economics, Law & Policy*, Dean Lueck & Karen M. Bradshaw, Eds. RFF Press. Taylor & Francis. <http://routledge-ny.com/books/details/9781933115955/>.
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- Lueck, Dean & Jonathan Yoder. 1997. "Federalism and Wildlife Conservation in the West," in T. Anderson and P. Hill eds., *Environmental Federalism in the West*. Lanham, MD: Rowman and Littlefield (1997) 89-131.

Yoder, Jonathan. 1994. The Effects of Spotted Owl Litigation on National Lumber Markets. Master's thesis, Montana State University Department of Agricultural Economics and Economics, Bozeman Montana.

## Reports and non-refereed articles

Yoder, Jonathan, Crystal Raymond, Reetwika Basu, Suhina Deol, Alexander Fremier, Kairon Shayne Dumalag Garcia, Guillaume Mauger, Julie Padowski, Matthew Rogers, Amanda Stahl. 2022. [Climate change and stream flow: Barriers and opportunities](#). Preliminary project report to the Washington State Department of Ecology. June. <https://apps.ecology.wa.gov/publications/summarypages/2211029.html>.

Hall, S.A., Adam, J.C., Yourek, M.A., Whittemore, A.M., Yorgey, G.G., Scarpore, F., Liu, M., McLarty, S., Asante-Sasu, C., McClure, S., Turk, J., Haller, D., Padowski, J., Deshar, R., Brady, M.P., Rajagopalan, K., Barber, M.E., Weber, R., Stockle, C.O., Goodspeed, H.L., Gustine, R.N., Kondal, A., Yoder, J., Deaver, B., Downes, M., Tarbutton, S., Callahan, M., Price, P. Roberts, T., Stephens, J., Valdez, W. 2021. 2021 Washington State Legislative Report. [Columbia River Basin Long-Term Water Supply and Demand Forecast](#). Publication No. 21-12-006. Washington Department of Ecology, Olympia, WA. 263 pp.

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Pickering, Nigel, Abilash Chandrel, Lav Khot, Minglian Liu, Troy Peters, Sunil Kadam, Behnaz Molaei, Jonathan Yoder, Kirti Rajagopalan, Claudio Stockle, and Georgine Yorgey. 2021. Evapotranspiration Estimation. *The Water Report* 208(June):10-19.

Lueck, Dean and Jonathan Yoder. 2020. [Spreading like wildfire: Economics and wildfire policy offer useful lessons for COVID-19 Response](#). *Regulation* Winter(2020-2021):36-42.

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Katz, Stephen L., Hal Beecher, Michael Brady, Joseph Cook, Kiza Gates, Julie Padowski, George R. Pess, Mark D. Scheuerell, and Jonathan Yoder. 2019. [Technical Supplement: Determining Net Ecological Benefit](#). Prepared for the Department of Ecology Water Resources Program. Coordinated by the State of Washington Water Research Center and Washington State University. 95 pp. <https://fortress.wa.gov/ecy/publications/SummaryPages/1911079.html>.



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## Proceedings

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- Yoder, Jonathan. 2012. Water Rights, Markets and Prices: Helping Water Flow Toward High-Valued Use. In: [Water, Washington, and the World: Ensuring Economically and Environmentally Sustainable Water Resources](#). Summary of the Proceedings of the Fifth Annual Symposium Held as Part of the 2012 Annual Meeting of the Washington State Academy of Sciences September 20, Museum of Flight, Seattle, WA.
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duction and Environmental Issues. College of Agriculture and Life Sciences, North Carolina State University. Raleigh, NC.

Yoder, Jonathan. 2002. "Damage Abatement and Compensation Programs as Incentives for Wildlife Management on Private Land." Chapter 2 in *Human Conflicts with Wildlife: Economic Considerations*. L. Clark, J. Hone, J.A. Shivik, R. Watkins, K. VerCauteran, & J. Yoder (eds) Colorado State University Press, Fort Collins. pp. Peer reviewed. 186.

## Working papers (not published or in review)

Fahs, Faysal, Ron Mittelhammer, & Jonathan Yoder. Generalized Method of Truncated Moments Estimation of Censored Equation Systems. [School of Economic Sciences Working paper 2013-4](#).

Lankoande, Mariam, Jonathan Yoder, & Philip Wandschneider, 2005. "Optimal wildfire insurance in the wildland-urban interface in the presence of a government subsidy for fire risk mitigation." WSU School of Economic Sciences Working Paper 2005-9.

Lankoande, Mariam & Jonathan Yoder. 2005. [Firefights and Fuel Management: A Nested Rotation Model for Wildfire Risk Mitigation](#). WSU School of Economics Working Paper 2005-7.

Lankoande, Mariam & Jonathan Yoder. 2006. "An Econometric Model of Wildfire Suppression Productivity," WSU School of Economic Sciences Working Paper 2006-10.

Renkow, Mitch, Dale Hoover, & Jonathan Yoder. 1997. "Commuting and Migration in North Carolina: Does Suburbanization Explain the Trends?" ARE Report No. 13. North Carolina State University Department of Agricultural and Resource Economics, Raleigh NC.

## Grants

Harrison, J. (Lead PI), et al. Understanding the Use of Discretion and its Socio-Environmental Consequences for Reservoir Systems. National Science Foundation DISES program. \$1.6 Million. 2021-2025.

Kalyanaraman, A. (Lead PI), et al. J. Yoder (Senior Personnel). AI Institute: Agricultural AI for Transforming Workforce and Decision Support (AgAID). National Science Foundation. \$20 Million. 2021-20216.

Yoder, Jonathan. FY 2021 State Water Resources Research Institute Program (Section 104). \$125,000.

Mwangi, Thumbi et al. USAID Feed the Future Animal Health Innovation Lab for East Coast fever control. USAID. \$6 Million. 2020-2025.

Yoder, Jonathan. FY 2020 State Water Resources Research Institute Program (Section 104). \$125,000.

Sewilam, Hani (Lead PI), Jonathan Yoder (WSU Lead PI), et al. 2018-2022. Egyptian Center of Excellence in Water. Lead Institution: American University in Cairo. \$30 Million; WSU share: \$832,855.

Yoder, Jonathan. FY 2019 State Water Resources Research Institute Program (Section 104). \$92,335.

- Lankester, Felix, Guy Palmer and Jonathan Yoder. 2018-2023. Eliminating human rabies: impact of enhanced vaccination coverage. National Institutes of Health. 1R01AI141712, \$2,396,107.
- Yoder, Jonathan et al. 2018. Defining Net Ecological Benefit for implementation of ESSB 6091. Washington State Department of Ecology. \$91,118. March-December.
- Jonathan Yoder (Lead PI), et al. 2018-2022. Technology for Trade: New Tools and New Rules for Water Use Efficiency in Agriculture and Beyond. USDA NIFA. \$5 Million. USDA Accession #1016467.
- Yoder, Jonathan. FY 2018 State Water Resources Research Institute Program (Section 104). \$92,335.
- Yoder, Jonathan, Julie Padowski, and Nigel Pickering. Hanford Groundwater availability assessment. \$40,000. 2017, awarded and completed.
- Yoder, Jonathan and Jennifer Adam. FY 2017 State Water Resources Research Institute Program (Section 104). \$92,335.
- Kariuki, Njenga, Terry McElwain, Thumbi Mwangi, Douglas Call, Thomas Marsh, Jonathan Yoder, Eric Lofgren. 2016. Conducting Communicable Disease Research in Kenya. HHS, CDC. \$20.5 Million.
- Adam, Jennifer, Randall Fortenbery, Michael Goldsby, Stephanie Hampton, John Harrison, Stephen Katz, Chad Kruger, Mingliang Liu, Dustin McLarty, Julie Padowski, Stockle Claudio, Jonathan Yoder. 2016. INFEWS/T1: Increasing regional to global-scale resilience in Food-Energy-Water systems through coordinated management, technology and institutions. National Science Foundation. \$2.9 million.
- Lankester, Felix & Jonathan Yoder. Assessment of incentive payments for increasing participation in mass dog rabies vaccination in Tanzania. CVM Intramural Research Grant, 2016. \$19,865.
- Yoder, Jonathan and Jennifer Adam. FY 2016 State Water Resources Research Institute Program (Section 104). \$92,335.
- Brady, Michael, Julie Padowski, & Jonathan Yoder. 2016. Skagit Basin Exempt Well Mitigation Strategies. Washington State Department of Ecology, \$72,000.
- Yoder, Jonathan and Jennifer Adam. FY 2015 State Water Resources Research Institute Program (Section 104). \$92,335.
- Padowski, Julie, Jonathan Yoder, Jennifer Adam, Stephanie Hampton, & Chad Kruger. August 2015. Addressing the Food-Energy-Water System Trilemma: Balancing Reliance on Technological and Institutional Solutions. National Science Foundation SEES workshop proposal: Interactions of Food Systems with Water and Energy Systems. \$44,953.
- Kolden, Crystal (Lead), John Abatzoglou, Jennifer Adam, Lilian Alessa, John Anderson, Erin Brooks, Jeff Hicke, Andrew Kliskey, Chad Kruger, Mingliang Liu, Travis Paveglio, Alistair Smith & Jonathan Yoder. July 2015. Advancing Resilience to Compounding Disasters: An Integrated Natural-Human Systems Assessment of Wildfire Vulnerability. National Science Foundation, Interdisciplinary Research in Hazards and Disasters, Science, Engineering and Education for Sustainability NSF-Wide Investment (Hazards SEES). \$2.8 M.

- Cleaveland, Sarah, Joanne Sharp, Linda Waldman, Melissa Leach, Naomi Marks, Louise Matthews, Rowland Kao, Rhian Thomas, Mike Shand, Paul Gwakisa, Rudovick Kazwala, Julius Keyyu, Fredrick Swai, Katinka Kivaria, DeBalogh, John Crump, Jonathan Yoder, Felix Lankester, Gibson Kibiki Michael Shand, Joram buza. 2014-2019. Social, Economic and Environmental Drivers of Zoonoses in Tanzania (SEEDZ). Biotechnology and Biological Sciences Research Council (BBSRC), UK. \$4.8 M. Project website: <http://www.seedztanzania.org>.
- Adams, Jennifer (Lead PI), Yoder, Jonathan (P.D.), Michael Barber, Michael Brady, Chad Kruger, Claudio Stöckle. Columbia River Basin Water Demand and Supply Forecast, 2016. Interagency agreement between the State of Washington Department of Ecology and Washington State University 2015-2016. \$1.8 million.
- Yoder, Jonathan, Jenny Adam, Michael Brady, Joseph Cook, Barbara Cosens, Stephen Katz. 2013-2014. Benefit-Cost Analyses of the Yakima River Basin Integrated Plan Projects. Washington State Legislature. \$300,000.
- Quinlan, Robert, Martha Cottam, Hewlett, Barry, Bonnie Hewlett, Greg Hooks, Marsha Quinlan, Thomas Rotolo, Walelign Tadesse, & Jonathan Yoder. 2013-2014. Southwest Ethiopia Collaborative Research Incubator. Berry Family Fellowship. \$25,000.
- Brady, Michael, Jennifer Adam & Jonathan Yoder. An Integrated Engineering and Economic Analysis of the Columbia River Treaty Renegotiation using Game Theory. 2013-2014. State of Washington Water Research Center. \$55,020.
- Orr, Cailin Huyck, Jennifer Adam, Michael Barber, Allyson Beall, Michael Brady, Barbara Cosens, Carey Gazis, John Harrison, Kent Keller, Chad Kruger, Brian Lamb, Claudio Stöckle & Jonathan Yoder. 2012-2016. Watershed Integrated System Dynamics Modeling (WISDM): Feedbacks among biogeochemical simulations, stakeholder perceptions, and behavior. \$1,495,640.
- Galinato, Gregmar, Suzette Galinato, Jonathan Yoder, & Richard Shumway. 2012–2015 Effectiveness of a Pacific Northwest Revenue-Neutral Carbon Tax in the Context of the Federal Biofuel Policy. USDA NIFA. \$349,993.
- Adams, Jennifer, Michael Brady, Yong Chen, Serena Chung, R. Dave Evans, Alex Guenther, John Harrison, Ananth Kalyanaraman, Chad Kruger, Brian Lamb, Fok-Yan Leung, Lai-Yung Leung, Andrew Perleberg, Jennie Stephens, Claudio Stöckle, Christina Tague, Joseph Vaughan, & Jonathan Yoder. 2011–2015. “Understanding Biogeochemical Cycling in the Context of Climate Variability Using a Regional Earth System Modeling Framework” USDA NIFA, \$3,053,000.
- Palmer, Guy, Terry McElwain, Jeffrey LaFrance, Thomas Marsh, & Jonathan Yoder. 2011-2012. Estimating the effects of East Coast Fever on pastoralists in Southern Kenya. \$206,281.
- Chouinard, Hayley & Jonathan Yoder. 2011. A Comparison and Analysis of Solid Waste Funding Programs for Washington State. Funded by the Washington State Department of Ecology, Beyond Waste Program. \$50,000.
- Yoder, Jonathan. 2010-2011. Modeling wildfire suppression as a sequential, dynamic decision process. USFS Cooperative agreement number RWU-FS-SRS-4804. \$40,991.

- Adams, J., M. Barber, M. Brady, D. Granatstein, C. Kruger, T. Marsh, T. Peters, C. Stöckle, & J. Yoder. Columbia River Basin Water Supply Investment Plan: A strategy to develop water supply to meet water demand needs through 2030. Interagency agreement between the State of Washington Department of Ecology and Washington State University WSU contract#113655\_001. 2009 - 2011. \$748,372
- Yoder, Jonathan. "Forecasting Wildfire Suppression Cost with Data Available at Fire Inception." USFS agreement number 09-CS-11221636-217. 2009-2010. \$12,945.
- Yoder, Jonathan, project leader. 2007-2009. Analysis of Market Incentives for Biofuels Production in Washington State. Washington State Department Of Community, Trade, And Economic Development. \$800,000.
- Kruger, Chad, David Granatstein, Manuel Garcia-Pérez, Hal Collins, and Jonathan Yoder. 2007-2009. Use of biochar from the pyrolysis of waste organic material as a soil amendment. Washington State Department of Ecology. \$128,000.
- Yoder, Jonathan, Joan Davenport, & Shulin Chen. 2007. Viability of Sugar Beet Production for Ethanol Production in Washington State. Washington State Department of Agriculture. \$125,000.
- Yoder, Jonathan. 2007-2010. Testing for Differences in Wildfire Damages by Fire Cause, Across Space, and According to Suppression Approaches on U.S. National Forests. USFS cooperative agreement. \$40,000.
- Chouinard, Hayley, Jonathan Yoder, & Phil Wandschneider. 2006. Political Economy of Whitewater Rafting and the Four-Rivers Lottery. USFS cooperative agreement. \$20,000.
- Yoder, Jonathan. 2006. Wildfire Suppression Cost Estimation. USFS cooperative agreement. \$10,000.
- Yoder, Jonathan & Walter Thurman. 2005. Wildfire Suppression Productivity and Trends in Wildfire Severity in the United States, 1970 to 2002. \$20,000.
- Yoder, Jonathan. 2005. Economic Tradeoffs Inherent in Prescribed Fire as a Wildfire Mitigation Tool. Rural Technology Initiative, University of Washington, Washington State University. \$10,000.
- Yoder, Jonathan. 2003. "Effects of Liability and Regulation on Prescribed Fire Risk in the United States." U.S. Forest Service Cooperative Agreement. \$43,893.
- Fuhlendorf, Samuel, Jonathan Yoder, David Engle, David Lewis, Charles Taylor, & Jason Johnson. 2003. "Economics of Prescribed Fire Cooperatives." U.S. Forest Service Cooperative Agreement. \$98,597.
- Barfield, William, et al. 2001. "Systems Approach to Maintaining Natural Capital in Rapidly Developing Watersheds." National Science Foundation Biocomplexity Incubation Grant. \$100,000.
- Dicks, Michael, Jonathan Yoder, Samuel Fuhlendorf, & David Engle. 2000 "Factors Affecting Land Use Change in Western Oklahoma." Targeted Research Initiative Program grant, Oklahoma Agricultural Experiment Station. \$15,000.
- Engle, David, Samuel Fuhlendorf, Michael Woods, Jonathan Yoder, Derrell Peel, James Shaw, & Tracy Carter. 2000. "Restoring Native Landscapes and Rural Economies: Native Flora, Native Fauna, and



Native People.” Targeted Research Initiative Program grant, Oklahoma Agricultural Experiment Station. \$40,000.

Arthur Stoecker, Larry Sanders, & Jonathan Yoder. 2000. Sitlington Enriched Scholarship recipient for support of a doctoral student to work on animal waste issues.

Rucker, Randal, Walter Thurman, & Jonathan Yoder. 1997. “The Effects of Trade Conditions on Montana’s Wood Products Industry: An Investigation of the Effects of Canadian Forestry Practices, Canadian/United States Trade Restrictions, and Other Factors on U.S. Lumber Prices.” Trade Research Center, Montana State University, Bozeman. \$35,000.

## Presentations

### Invited seminars and presentations

Yoder, Jonathan. 2022. Skagit Basin Water Research Presentation to the Washington State Legislature Joint Legislative Task Force on Water Supply. October 17. Online.

Yoder, Jonathan. 2022. Skagit Basin Water Research Proposal to the Washington State Legislature Joint Legislative Task Force on Water Supply. May 3. Online.

Yoder, Jonathan. 2022. Skagit Basin Water Research Scoping Process. Washington State Legislature Joint Legislative Task Force on Water Supply. February 18. Online.

Yoder, Jonathan. 2021 Water Supply and Demand Synthesis for the Skagit Basin. Presentation to the Joint Legislative Task Force on Water Supply. October 5.

Yoder, Jonathan. 2021. NIWR Member Funding and Governance of FY 2019. Presented at the Annual Meeting of the National Institutes for Water Resources. Feb. 9.

Yoder, Jonathan. 2021. Water Supply and Demand Synthesis for the Skagit Basin. Presentation to the Joint Legislative Task Force on Water Supply. June 29.

Bayham, Jude and Jonathan Yoder. Applications of economics to wildfire management – a review. Invited plenary talk to the Western Forest Economics Association. Virtual Conference, 8 June 2021.

Yoder, Jonathan. 2020. Water Law and Economics in Washington State and the West. Invited Seminar for the Water Resources Club, Washington State University. 12 November.

Yoder, Jonathan. 2020. Livestream interview by Michigan State University College of Agriculture and Natural Resources. Closing Bell: Wildfire economics. <https://www.facebook.com/CANRatMSU/videos/1068332933622427>. 2 October.

Yoder, Jonathan. 2020. Water Supply and Demand in the Skagit. Presentation to the Joint Legislative Task Force on Water Supply (Washington State Legislature). September 21. Online.

Yoder, Jonathan. 2020. Economic Fundamentals of Water Markets and Water Banks. Invited testimony to the Washington State Legislature House Committee on Rural Development, Agriculture, & Natural Resource. February 25, Olympia Washington.

- Yoder, Jonathan. 2019. Water Supply and Demand in the Skagit. Presentation to the Joint Legislative Task Force on Water Supply (Washington State Legislature). December 19. Mount Vernon, Washington.
- Yoder, Jonathan. 2019. Wildfire: Who's at fault and why we should care. Invited speaker at the 2019 Washington State Academy of Sciences Symposium *WILDFIRE in Washington State*. September 12, Museum of Flight, Seattle, WA.
- Yoder, Jonathan. 2019. Economic Pathways through One Health. International Society for Disease Surveillance. Plenary Panel. San Diego, CA. U.S.A. January 29.
- Yoder, Jonathan. 2018. State of Washington Water Research Center: Activities and Roles for the Joint Legislative Task Force for Water Supply. Presentation to the Washington State Joint Legislative Task Force on Water Supply. Mount Vernon, WA, 11 December.
- Yoder, Jonathan. 2018. Technology for Trade: New Tools and New Rules for Water Use Efficiency in Ag and Beyond; A Project introduction. Columbia Basin Development League Board Meeting. Big Bend Community College, Moses Lake, WA. November 28.
- Yoder, Jonathan. 2018. Economic Foundations for One Health: Lessons from East Africa. Keynote Speech at the Washington State Department of Health Zoonotic Disease Conference. September 11, Ellensburg, WA.
- Yoder, Jonathan. 2018. Economics of Wildfire on Public Lands. Invited speaker at the conference on "Pressing Issues in Public Land Management" Sponsored by the Institute for Humane Studies, George Mason University. Las Vegas, Nevada, 5 April 2018.
- Yoder, Jonathan. 2017. Economics of Adaptation: The role of incentives, markets, and governance in climate change adaptation. Invited Lecture to the Washington State Academy of Sciences. Seattle, WA. September 13. Presentation available at <http://www.washacad.org/2239-2/>.
- Yoder, Jonathan. 2017. Economic Assessment of Integrated Water Resource Management. The Yakima Basin Integrated Plan. October 18. Invited Lecture, Oregon State University, Corvallis.
- Yoder, Jonathan. 2017. State of Washington Water Research Center Contributes to the debates over the Yakima Basin IWRM plan. National Institutes for Water Resources Meetings. Washington D.C., February 22.
- Yoder, Jonathan. 2016. Invited Presentation and panel participant. U.S. Water Alliance One Water for America Listening Session. Seattle, WA. December 5.
- Yoder, Jonathan. 2016. Water and Climate Change in the Pacific Northwest: Economics. Center for Environmental Law and Policy. Seattle, WA, December 1.
- Yoder, Jonathan. 2016. Inferring the value of statistical life from tough tradeoffs: Choosing between the risk of death from rabies and the cost of treatment in rural Tanzania. University of Glasgow, Institute of Biodiversity, Animal Health, and Comparative Medicine. September 1.
- Lueck, Dean, and Jonathan Yoder. 2016. [Clearing the Smoke from Wildfire Policy: An Economic Perspective](#). [Property and Environment Research Center](#). PERC Wildfire Solutions Summit. Bozeman, Montana. July 21-22.

- Yoder, Jonathan. 2016. Economic assessment of Integrated Water Resource Management: The Yakima Basin Integrated Plan. Invited presentation for the Geography and Water Resources Seminar Series, University of Idaho, Moscow, ID. 13 April.
- Yoder, Jonathan. 2016. Economics of Externalities: The public costs and benefits of water and water management. Invited panel participant and presentation to the Center for Sustaining Agriculture and Natural Resources Advisory Committee Meeting. Ellensburg, Washington. March 2.
- Yoder, Jonathan. 2015. Integrated Water Resource Management and Benefit Cost Analysis. Panel presentation at the American Water Resources Association. Denver, CO, November 17, 2015.
- Yoder, Jonathan. 2015. Benefit-Cost Analyses of the Yakima River Basin Integrated Plan Projects. Requested testimony at the Washington House of Representatives Task Force on Washington Waters. Olympia, WA. 19 December.
- Yoder, Jonathan. 2015. Economic fundamentals for water markets. Requested testimony at the Washington House of Representatives Task Force on Washington Waters. Olympia, WA. 19 December.
- Yoder, Jonathan. 2015. Water Economics: Making the most of a valuable resource. Invited lecture, Leadership Tri-Cities. Richland, WA. September 16.
- Yoder, Jonathan. 2015. Benefit-Cost Analysis of the Yakima River Basin Integrated Plan Projects. Requested testimony at the Senate Ways and Means Committee, Washington State Legislature. Olympia, WA. 15 January 2015.
- Yoder, Jonathan. 2014. Benefit-Cost Analyses of the Yakima River Basin Integrated Plan Projects. 2014. Final report presentation to the Yakima River Basin Water Enhancement Project Workgroup. Yakima, WA. 17 December.
- Brady, Michael and Jonathan Yoder. 2014. Water market development driven by environmental amenity-based growth. Invited presentation at the *Water Markets Design Workshop*, Bren School of the Environment, University of Santa Barbara, CA. November 7-8. Sponsored by the Walton Family Foundation.
- Bayham, Jude and Jonathan yoder. 2014. Resource Allocation Under Fire. Invited participant and speaker at *The Politics and Economics of Wildfire* symposium, Bren School of the Environment, University of Santa Barbara, CA. October 27-28 2014. Sponsored by the Property and Environment Research Center, Bozeman, MT.
- Lueck, Dean and Jonathan Yoder. 2014. Political Economy and organization of Wildfire Suppression. Invited participant and speaker at *The Politics and Economics of Wildfire* symposium, Bren School of the Environment, University of Santa Barbara, CA. October 27-28 2014. Sponsored by the Property and Environment Research Center, Bozeman, MT.
- Yoder, Jonathan, Paul Ervin, & Katie Hampson. 2013. Economic incentives in rabies modeling and policy. Partners for Rabies Prevention, 3rd Economics subgroup meeting. National Wildlife Research Center, Fort Collins, Colorado, August 20-21.
- Bayham, Jude and Jonathan Yoder. 2013. Wildfire Hazards. Yale Center for Business and the Environment, Environmental Economics Seminar Series. September 11.

- Yoder, Jonathan. 2012. Water rights, markets, and prices: helping water flow toward high-valued use. Invited presentation, 5<sup>th</sup> Annual Meeting and Symposium, Washington State Academy of Sciences, September 20. Seattle, WA.
- Yoder, Jonathan, Adrienne Ohler, & Hayley Chouinard. 2012. What floats your boat? Preference revelation from lotteries over complex goods. Invited seminar, Department of Economics, University of Nevada, Reno. April 20.
- Jonathan Yoder. 2011. Wildfire Hazards. Invited seminar at Economic Modeling Specialists, Inc., Moscow, ID. Dec. 9, 2011.
- Yoder, Jonathan & Jude Bayham. 2011. Wildfire Hazards. Invited seminar at Montana State University Department of Agricultural Economics and Economics. October 14.
- Yoder, Jonathan. 2011. Economic assessment of livestock disease and intervention. Invited lecture, College of Veterinary Medicine, Washington State University. September 6.
- Yoder, Jonathan. 2011. Fueling the Fire: The Economics of Liability Law and the Weak Incentives for Active Management of Natural Fuels. Invited presentation. Wildland Fire Litigation Conference. San Diego, CA. April.
- Yoder, Jonathan. 2010. Fuel for the fire: Liability and the economics of wildfire risk. Invited symposium presentation. Wildfire: Law, Economics, and Policy, University of Arizona and the University of Chicago Law School. November.
- Bauman, Yoram & Jonathan Yoder. 2010. "Economics, Energy, and Climate Change: Policy for Washington State" Invited lecture to the Washington State Energy Strategy Panel, Washington State Department of Commerce. Seatac Conference Center, July 13.
- Yoder, Jonathan. 2008. "Policy Design for Biofuel Markets: Fueling Change and Changing Fuels." Presented at *A Taste of WSU at Benaroya Hall*. August 28. Seattle, WA.
- Yoder, Jonathan. 2007. "Market incentives for biofuels." Report to the Transportation, Energy, and Communications Committee of the Washington State House of Representatives. November.
- Wandschneider, Phil & Jonathan Yoder. 2007. "Market Policy and Innovation: The case of biofuels". Presented to the Thomas S. Foley Institute for Public Policy and Public Service Environmental Studies Colloquium Group. October.
- Yoder, Jonathan & Phil Wandschneider. 2007. Policy Design for Biofuel Markets: An economic perspective. Presented at the Western Regional Biomass Feedstock Workshop, sponsored by the Sun Grant Western Regional Center and the U.S. Department of Energy. Portland, OR, August 27-29.
- Yoder, Jonathan. 2005. Economic Estimation of Nonmarket Values from Small Forest Landholdings. Presented at the Rural Technology Initiative Annual Technical Review. University of Washington Center for Urban Horticulture. February.
- Yoder, Jonathan. 2004. "Effects of liability and regulation on prescribed fire risk in the United States." Presented at the second International Symposium on Fire Economics, Policy, and Planning: A Global Vision. April.

- Lankoande, Mariam & Jonathan Yoder. 2004. "Fuel management as a timing problem." Presented at the second International Symposium on Fire Economics, Policy, and Planning: A Global Vision. April.
- Yoder, Jonathan. 2004. Wildfire Economics and Policy. Invited Lecture, College of Natural Resources, University of Idaho.
- Yoder, Jonathan. 2003 "Prescribed Fire Law in the United States: An Overview." Invited Presentation for the Prescribed Fire Liability Insurance Expert Panel Review. January. Nebraska City, NE.
- Yoder, Jonathan. "Effects of Liability Law on Prescribed Fire Insurance Premiums." Invited Presentation for the Prescribed Fire Liability Insurance Expert Panel Review. January 8-10 2003. Nebraska City, NE.
- Yoder, Jonathan. 2002. "Prescribed Fire: Liability, Regulation, and Endogenous Risk." Invited seminar, Kansas State University, December 2001.
- Lueck, Dean & Jonathan Yoder. June 1996. "Federalism and Wildlife Conservation in the West," By invitation at the Political Economy Research Center Seventh Annual Political Economy Forum. Big Sky MT.

Conference Proceedings and selected presentations: 89

## Honors and Awards

### Quality of Research

- Otiang, Elkanah, Jonathan Yoder, Shanthi Manian, Zoë A. Campbell, Samuel M. Thumbi, Lucy W. Njagi, Philip N. Nyaga, and Guy H. Palmer. 2022. Vaccination of household chickens results in a shift in young children's diet and improves child growth in rural Kenya. *Proceedings of the National Academy of Sciences* 119:e2122389119. <https://doi.org/10.1073/pnas.2122389119>. *PNAS Cozzarelli Prize* Finalist (runner-up) for Class IV (Applied Biological, Agricultural, and Environmental Sciences section).
- Marsh, Thomas, Jonathan Yoder, Tesfaye Deboche, Terry McElwain & Guy Palmer. 2016. [Pastoralists' decisions on livestock vaccination translate into increased human capital and increased school attendance by girls](#). *Science Advances*: 2(12) e1601410, DOI: 10.1126/sciadv.1601410. *Winner of the Western Agricultural Economics Association Outstanding Published Research Award for 2017*.
- Marisa Anne D'Angeli, Joe B. Baker, Douglas R. Call, Margaret A. Davis, Kelly J. Kauber, Uma Malhotra, Gregory T. Matsuura, Dale A. Moore, Chris Porter, Paul Pottinger, Virginia Stockwell, Carol Wagner, Ron Wohrle, Jonathan Yoder, Leah Hampson Yoke, Peter. 2016. [Antimicrobial stewardship through a one health lens](#). 2017 Outstanding Paper Award for the *International Journal of Health Governance*. <http://www.emeraldgrouppublishing.com/authors/literati/awards.htm?year=2017>
- Yoder, Jonathan, Jennifer Adam, Michael Brady, Joseph Cook, Stephen Katz, Daniel Brent, Shane Johnston, Keyvan Malek, John McMillan, and Qingqing Yang. 2014. Benefit-Cost Analysis of Yakima

Basin Integrated Plan projects. <https://swwrc.wsu.edu/2014ybip>. Winner of the Agricultural and Applied Economics Association's Bruce Gardner Memorial Prize for Applied Policy Analysis, 2016.

Yoder, Jonathan, Adrienne Ohler, & Hayley Chouinard. [What floats your boat? Preference revelation from lotteries over complex goods](#). *Journal of Environmental Economics and Management* 67:412-430. Winner of the [Western Agricultural Economics Association Outstanding Published Research Award for 2014](#).

Outstanding Doctoral Dissertation Award, American Agricultural Economics Association, 2000.

### Other awards and honors

Distinguished Professor for Sustainable Development. Endowed Chair. 2020–present.

Washington State Academy of Sciences, elected member. July 2017 – present.

President, Universities Council on Water Resources, 2020-2021.

Yoder, Jonathan (Lead PI) et al. 2019. WSU Office of Research [Largest New Team Grant Award](#) for FY 2019 at Washington State University, for the USDA-NIFA funded project entitled “Technology for trade: Improving water use and allocation efficiency in agriculture and beyond.” Awarded October 2019. <https://news.wsu.edu/2019/10/29/office-research-celebrates-staff-faculty-achievements/>.

Yoder, Jonathan. 2017. 2016 Editors' Citation for Excellence in Refereeing - [Water Resources Research](#). <https://eos.org/agu-news/in-appreciation-of-agus-outstanding-reviewers-of-2016>.

Yoder, Jonathan, Jennifer Adam, Michael Brady, Joseph Cook, Stephen Katz, Daniel Brent, Shane Johnston, Keyvan Malek, John McMillan, and Qingqing Yang. 2014. Benefit-Cost Analysis of Yakima Basin Integrated Plan projects. <https://swwrc.wsu.edu/2014ybip>. *Winner of the College of Agriculture, Human, and Natural Resource Sciences Team Interdisciplinary Award for 2015*.

Major Advisor for Jude Bayham, Outstanding Doctoral Dissertation Honorable Mention, 2013. American Economic Applied Economics Association.

Major Advisor for Mariam Lankoande, Outstanding Doctoral Dissertation Honorable Mention, 2006. American Agricultural Economics Association. [http://www.dissertations.wsu.edu/Dissertations/Summer2005/M\\_Lankoande\\_07302005.pdf](http://www.dissertations.wsu.edu/Dissertations/Summer2005/M_Lankoande_07302005.pdf)

Lone Mountain Fellowship. 2012. Property and the Environment Research Center, Bozeman, MT.

Heading South Award winner, 2003. Travel award sponsored by the Australian Agricultural and Resource Economics Society and the American Agricultural Economics Association to present the paper “Playing with Fire: Endogenous Risk in Resource Management.” Melbourne, February 2004.

First place, Student Research Paper Division of a national contest sponsored by the Association for Education in Journalism and Mass Communication for a paper entitled “Media Coverage of Sustainable Development Issues,” 1990.

## Selected popular press attention

Isabella Breda. 2022. [Climate Change could make WA streams too hot for fish, report shows](#). *Seattle Times*, December 13. In reference to [Climate Change and Stream flow: Barriers and Opportunities](#), submitted to Washington State Department of Ecology. *Republished in The Columbian*, Dec. 13.

Clayton Franke. 2022. [Report: Climate Change could polarize streamflow patterns](#). *Aberdeen Daily World*, Aberdeen WA, December 7. In reference to [Climate Change and Stream flow: Barriers and Opportunities](#), submitted to Washington State Department of Ecology. *Republished in The Columbian*, Dec. 10.

Bush, Evan. 2019. Wall Street spends millions to buy up Washington state water. *Seattle Times*, 27 October. <https://www.seattletimes.com/seattle-news/environment/wall-street-spends-millions-to-buy-up-washington-state-water/>. Yoder cited.

Aarnio, Cheryl. 2019. Research may help mitigate effects of rural wells. *The Daily Evergreen*, October 10. <https://dailyevergreen.com/64266/news/research-may-help-mitigate-effects-of-rural-wells/>.

Yoder, Jonathan, Elizabeth Younce, Felix Lankester, & Guy Palmer. 2019. [Healthcare demand in response to rabies elimination campaigns in Latin America](#). *PLOS Neglected Tropical Diseases*. 13(9): e0007630. <https://doi.org/10.1371/journal.pntd.0007630>.

- Science Daily. 2019. [Dog rabies vaccination programs affect human exposure, prophylaxis use](#). <https://www.sciencedaily.com/releases/2019/09/190926141751.htm>. September 26.
- Sanicas, Melvin. [A 10% increase in dog vaccination reduces human deaths by 12.4%](#). *ZMEW Science*, Sept 27. <https://www.zmescience.com/science/dog-vaccination-rates-rabies-humans-32342234/>.
- Vet Candy. 2019. [Dog rabies vaccination programs affect human exposure, prophylaxis use](#). Sept 27. <https://www.myvetcandy.com/clinicalupdblog/2019/9/27/dog-rabies-vaccination-programs-affect-human-exposure-prophylaxis-use>.

Clark, Brian. 2018. Superbugs. *Washington State Magazine*, Winter. <https://magazine.wsu.edu/2018/11/05/superbugs/>.

Yoder, Jonathan. 2017. Interview about California wildfires. *KQED Radio*, San Francisco, December 8.

Marsh, Thomas, Jonathan Yoder, Tesfaye Deboche, Terry McElwain & Guy Palmer. 2016. [Pastoralists' decisions on livestock vaccination translate into increased human capital and increased school attendance by girls](#). *Science Advances*:2(12) e1601410, DOI: 10.1126/sciadv.1601410.

- Nurith Aizenman. [What Does Vaccinating Cows Have To Do With A Girl's Education?](http://www.npr.org/sections/goatsandsoda/2016/12/14/505459974/what-does-vaccinating-cows-have-to-do-with-a-girls-education). <http://www.npr.org/sections/goatsandsoda/2016/12/14/505459974/what-does-vaccinating-cows-have-to-do-with-a-girls-education>.
- Gossard, Marcia. 2016. [Vaccinating increases family wealth, girls' education](https://news.wsu.edu/2016/12/14/vaccinating-increases-wealth/). WSU News 14 December. <https://news.wsu.edu/2016/12/14/vaccinating-increases-wealth/>. Picked up by (among many others)
  - (e)Science News. <http://esciencenews.com/sources/physorg/2016/12/14/vaccination-increases.family.wealth.girls.education>
  - World News Network, <http://worldnewsnetwork.co.in/en/2016/12/cattle-vaccination-can-increase-family-wealth-girls-education/26291>.
  - webindia123, <http://news.webindia123.com/news/articles/Health/20161215/3013182.html>.

Adam, J., J. Yoder, M. Downes, M. Brady, M. Barber, C. Kruger, S. Hall, G. Yorgey, D. Haller, W. Valdez, C. Stockle, S. Vigg, M. Garrity. 2016. [Columbia River Basin 2016 Long Term Water Supply and Demand Forecast](https://fortress.wa.gov/ecy/publications/SummaryPages/1612001.html). Report submitted to the Washington State Legislature by the Washington State Department of Ecology Office of Columbia River in cooperation with the State of Washington Water Research Center and Washington State University. <https://fortress.wa.gov/ecy/publications/SummaryPages/1612001.html>.

- <http://www.odessarecord.com/story/2016/12/29/news/managing-water-usage-storage-for-a-better-future/4743.html>
- <http://washingtonagnetwork.com/2016/11/11/final-long-term-columbia-river-supply-demand-forecast-released/>

Lueck, Dean and Jonathan Yoder. [Clearing the Smoke from Wildfire Policy: An Economic Perspective](#).

- KQED San Francisco Public Radio interview about the November-December 2017 California Wildfires. December 9, 2017.
- The John Batchelor Show. <https://audioboom.com/boos/4980543-clearing-the-smoke-from-wildfire-policy-an-economic-perspective-deanlueck-jonathan-yoder-perctweets>. Westwood One. 26 August 2016.
- New York Times Dot Earth. Andrew Revkin. [Burning Economic Issues Behind America's Wildfire Problem](http://dotearth.blogs.nytimes.com/2016/08/01/burning-economic-issues-behind-americas-wildfire-problem/?_r=0#commentsContainer). [http://dotearth.blogs.nytimes.com/2016/08/01/burning-economic-issues-behind-americas-wildfire-problem/?\\_r=0#commentsContainer](http://dotearth.blogs.nytimes.com/2016/08/01/burning-economic-issues-behind-americas-wildfire-problem/?_r=0#commentsContainer).

Lueck, Dean & Jonathan Yoder. 2015. [The Economic foundations of Firefighting Organizations and institutions](#). *Journal of Forestry* 113(·):291-297:

- "Fighting wildfires economically complex, says WSU researcher". WSU News: <https://news.wsu.edu/2015/07/23/fighting-wildfires-economically-complex-says-wsu-researcher/>



- Radio Interview, KOMO News Radio, Seattle, WA.
- Radio interview, KONA radio, Pasco, WA.

Yoder, Jonathan, Jennifer Adam, Michael Brady, Joseph Cook, Stephen Katz, Daniel Brent, Shane Johnston, Keyvan Malek, John McMillan, and Qingqing Yang. 2014. [Benefit-Cost Analysis of the Yakima Basin Integrated Plan Projects](#). State of Washington Water Research Center. December. Available at <https://swwrc.wsu.edu/2014ybip>. 196.pp.

- NAIADS. 2017. New Report Debunks Washington's Dam-Building Program. <https://naiads.wordpress.com/2017/01/18/new-report-debunks-washingtons-dam-building-program/>.
- Stecker, Tiffany, Sept. 8 2016. Western Water: Deal could end bitter Wash. Battle, but not everyone's happy. [eenews.net. http://www.eenews.net/stories/1060043545](http://www.eenews.net/stories/1060043545).
- Bernton, Hal. "Yakima Basin farmers want more water, sooner." Seattle Times, December 5, 2015. <http://www.seattletimes.com/seattle-news/environment/yakima-basin-farmers-want-more-water-sooner/>.
- Prengaman, Kate. 2014. WSU report says water plan overvalues fish recovery. December 18. Yakima Herald Republic: <http://www.yakimaherald.com/news/yhr/thursday/2755687-8/wsu-report-says-water-plan-overvalues-fish-recovery>.  
Seattle Times: [http://seattletimes.com/html/localnews/2025262204\\_salmonrecoveryxml.html?syndication=rss](http://seattletimes.com/html/localnews/2025262204_salmonrecoveryxml.html?syndication=rss).
- Prengaman, Kate. 2014. WSU study challenges economics of Yakima Basin water plan. Yakima Herald Republic. December 4. <http://www.yakimaherald.com/news/yhr/thursday/2691547-8/wsu-study-challenges-economics-of-yakima-basin-water>.
- Jenkins, Don. 2014. WSU study: Yakima Basin projects don't pencil out. Capital Press. December 15. <http://www.capitalpress.com/Washington/20141215/wsu-study-yakima-basin-projects-dont-pencil-out>.

Inveen, Cooper. 2015. Gov. Inslee's pollution control proposal | 2015 Session. North Kitsap Herald. WNPA Olympia News Bureau. January 25. <http://www.northkitsapherald.com/news/289632001.html>.

Staff Writer. 2013. Partnership boosts East Africa, WSU educational and research opportunities. WSU News, October 29. <http://news.wsu.edu/2013/10/29/>.

Johnson, Janet Casello. 2011. Researcher 'Homecoming': WSU Studies impact of African Livestock Disease. WSU News, Sept 1. <http://news.wsu.edu/pages/publications.asp?Action=Detail&PublicationID=27328>.

Galinato, Suzette P., Jonathan Yoder, & David Granatstein. 2011. [The Economic Value of Biochar in Crop Production and Carbon Sequestration](#). *Energy Policy* 39(10):6344-6350. Featured in *Key Scientific Articles*, Renewable Energy global innovations. <http://reginnovations.com/key-scientific-articles/economic-tradeoff-between-biochar-and-bio-oil-production-via-pyrolysis/>.

Steury, Tim. 2009. A long-term biofuels strategy for Washington State. *Washington State Magazine*. Spring. <http://wsm.wsu.edu/s/index.php?id=247>.

Steury, Tim. 2008. Rethinking the fundamentals: Feeding the world may require us to use old knowledge in new ways. *Washington State Magazine*. Winter. <http://wsm.wsu.edu/s/index.php?id=213>.

Staff Writer. 2008. *On the road to a bioeconomy*. Features economic research by Jonathan Yoder relating to biofuel economics. February. Washington State University Agricultural Research Center.

Staff Writer, *Connections Magazine*. 2008. "Weighing the Risks and Benefits of Wildfire Mitigation." Features wildfire research by Jonathan Yoder. P.11. Fall. Washington State University College of Agricultural, Human, and Natural Resource Sciences. <http://www.cahnrsalumni.wsu.edu/connections/archiveconnections/2007-connections.pdf>.

## Professional service

### 1. Editorships-Editorial boards:

- Journal of Contemporary Water Research and Education. 2016-present. Associate Editor.
- Journal of Water Economics and Policy. 2015-present. Editorial Board.
- Journal *Fire*. 2018-2021. Editorial Board.
- American Journal of Agricultural Economics. 2010-2014. Associate Editor.
- Journal of Natural Resources Policy Research. 2009-2011. Associate Editor.

### 2. State, National, International

- Washington State Academy of Sciences, Finance Committee. 2021 - present.
- Board of Directors, National Institutes for Water Resources. 2021-present.
- Communications Committee Member, National Institutes for Water Resources. 2023-present.
- President, Universities Council on Water Resources. 2020-2021.
- Co-organized a week-long workshop on Academic Institute Governance and Administration for the Egyptian Water Center of Excellence, representing a consortium of 5 Egyptian universities and 5 American universities. Funded by USAID. October 24-29, 2021.
- National Integrated Drought Information System (NIDIS) Executive Council Member, 2020-2021.
- Washington State Academy of Sciences Puget Sound Partnership Science Panel Review Committee. May 2021.
- National Science Foundation Engineering Research Center Environmental Engineering Pre-proposal Panel. Review Panel Member. Dec 2-4, 2020 Division of Engineering Education and Centers.
- Invited participant, Legislative workshop on decarbonization through built and natural environments. Organized by the Washington State Academy of Sciences for the State of Washington Legislature. 12 November 2020.

- Universities Council on Water Resources. 2020. Roundtable on water allocation and water use efficiency. October 7, online.
- Symposium Committee. 2019. Washington State Academy of Sciences. Wildfire.
- Alexandria (Egypt) Water Resilience Center of Excellence Advisory Committee Member. 2019-2024.
- Journal of Contemporary Water Research and Education Outstanding Journal Article Award Committee. 2018-.
- AAEA Bruce Gardner Award Committee 2017-2018.
- Grant Program Panel Reviewer, NOAA Sectoral Applications Research Program (SARP), Coping with Drought in Support of the National Integrated Drought Information System (NIDIS). April 2019.
- Invited participant, Science and Technology for Washington State: Assisting the State Legislature. Sponsored by the Washington State Academy of Sciences and the William D. Ruckelshaus Center. 4 Oct 2017.
- Associate Editor, Journal of Contemporary Water Research and Education. 2016-2019.
- Editorial board member, Journal of Water Economics and Policy, 2016-present.
- Editorial board member, [Fire](#).
- Reviewer, USGS 104G National Competitive Grant program, preproposal and proposal reviews. 2017.
- Departmental Review Panel. 2016. Department of Economics, San Diego State University. Oct 20-21.
- Universities Council on Water Resources Dissertation Awards reviewer, 2015-2016.
- Universities Council on Water Resources Board of Directors Member. 2015-present.
- National Institutes for Water Research Delegate. 2014-present.
- National Institutes for Water Research NIWR/USGS Partnership Committee, 2015-present.
- Scientific Advisory Council to the Washington State Commissioner of Public Lands: Effects of climate and other environmental change on Washington State Department of Natural Resources. 2013-2016.
- WAEA Outstanding Published Research Award Committee Chair. 2015-2016.
- WSU representative to the Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI).
- AFYA Serengeti Project Team Leader, 2013-present. <http://www.afya.org/Project-Team.aspx>
- Invited participant & contributor, Kenya Rabies Elimination Strategy Workshop. Republic of Kenya Zoonotic Disease Unit, Kenyan Ministry of Livestock and Ministry of Public Health and Sanitation. May 22-24, Nakuru, Kenya.
- Associate Editor, American Journal of Agricultural Economics. 2010-2014.
- WAEA conference selected paper reviewer. 2013.

- Associate Editor, *Journal of Natural Resources Policy Research*. 2009-2011.
  - Director, Western Agricultural Economics Association. 2009-2011.
  - Reviewer of Hatch project for the Nevada Agricultural Experiment Station. Dec. 2011.
  - WAEA graduate student travel grant award selection committee. 2011.
  - AAEA Selected Paper section leader: Environmental and Natural Resource Economics and policy topic area. 2010,2011.
  - Universities Council on Water Resources, WSU delegate. 2009 - 2011.
  - Inland Northwest Research Alliance (INRA) Water Research Consortium Steering Committee member 2008-present.
  - WAEA Master's Thesis Awards Committee. 2006.
  - American Agricultural Economics Professional Activities Committee. 2006-2008.
  - USDA National Research Initiative, Markets and Trade review panel. 2004.
  - Steering committee member, Young Professionals conference, Western Agricultural Economics Association and American Agricultural Economics Association. 2002.
  - Steering committee member, "Maintaining Natural Capital in Rapidly Developing Watersheds," a Conference funded by the National Science Foundation Biocomplexity Program. Clemson, SC March 6-9 2002.
  - American Agricultural Economics Association, Outstanding Dissertation Award Committee member, 2000 – 2003.
  - Reviewer of abstracts, Southern Agricultural Economics Association Meetings,2001; American Agricultural Economics Association meetings, 2002, 2005; Northeastern Agricultural and Resource Economics Association, 2002.
  - Steering committee member, "Resolving Conflicts Between Wildlife and Humans: Economic Implications," a symposium hosted by the USDA National Wildlife Research Center. Fort Collins, CO. August 2000.
3. Journal Article Reviewer: *Agricultural & Resource Economics Review, Agricultural Economics, American Journal of Agricultural Economics, Applied Economics Teaching Resources, Applied Stochastic Models in Business & Industry, Conservation Biology, Council of Economic Advisors, Office of the President of the United States, Environmental & Ecological Statistics, Forest Policy & Economics, Forest Science, Frontiers in Ecology & Environment, International Journal of Wildland Fire, Land Economics, Land Use Policy, Landscape & Urban Planning, Journal of Agricultural & Applied Economics, Journal of Agricultural & Resource Economics, Journal of the Association for Environmental and Resource Economists, Journal of Environmental Economics & Management, Journal of Environmental Management, Journal of Forest Economics, Journal of Natural Resources Policy Research, Journal of Soil & Water Conservation, Journal of Water Economics and Policy, Journal of Water Resources Planning and Policy, Journal of Wine Economics, Proceedings of the National Academy of Sciences (PNAS), Rand, Rangeland Ecology & Management, Resource and Energy Economics, Review of Agricultural Economics, Review of Industrial Organization, Social Sciences & Humanities Research Council of Canada, Society and Natural Resources, Water Economics and Policy, Water Resources Research.*

#### 4. Tenure and promotion reviews (external to WSU)

- For tenure & promotion to Associate Professor: 12
- For promotion to Full Professor: 7

#### 5. University

- WSU Drive to 25 Research and Development Committee. September-October 2017.
- Chair, WSU Agricultural Research Center Hatch Reorganization lead, Water Project development. July 2017-present.
- CAHNRS Award Selection Committee 2016.
- Individual Interdisciplinary Doctoral Program, proposal review (two proposals). April 2016.
- Affiliated Faculty, Consortium for Interdisciplinary Statistical Education and Research (CISER), WSU. <http://cahnrs.wsu.edu/ciser/>. 2015–present.
- WSU Office of Research 120 Study (Strategic Planning) Research Themes Committee member, 2014.
- WSU *Sustaining Health Initiative* Steering Committee Member. 2014.
- WSU Faculty Senate Graduate Studies Chair. 2013-2014.
- WSU Faculty Senate Graduate Studies Committee member, 2013-2015. 2012-2013.
- Faculty Senate Representative, 2004 – 2007.

#### 6. College

- CAHNRS Promotion and Tenure Committee, 2017–2019. Chair, 2019.
- Water Hatch Umbrella Project, Chair. 2017-present.
- CAHNRS Water Resources Management Task Force Co-Chair. 2013-2014.
- Search Committee for School of Economic Sciences Director, 2010.
- CAHNRS Promotion and Tenure Committee, 2009–2012.
- WSU representative at the W-190 Multistate project "Water Conservation, Competition, and Quality in Western Irrigated Agriculture." Kona, HI Oct 2-3, 2003.
- Graduate College Representative, Ph.D. Examination for Kalit Samar, Materials Science. Washington State University. 2003.
- Committee member, Environmental Science Undergraduate Program, Oklahoma State University. August 2000 – 2002.
- Consultation for the development of a Toxicology and Risk Assessment option for the Environmental Science Graduate Program. Fall 2001.

#### 7. School

- Chair, Mentor Committee for one SES faculty member. 2016-present.
- Chair, Health Economics Search Committee, 2015-2016.

- Member, Stormwater Economics Advisory Committee, 2016.
- Co-Chair, Macroeconomics Search Committee, 2013-2014.
- Member, Seminar Committee. 2012-2105.
- Graduate Studies Committee member, 2011 - 2013.
- Interim Graduate Employment Coordinator. 2011-2012.
- Search committee member, applied macroeconomics position. 2011-2012.
- Search committee member, agribusiness position. 2011.
- Chair, Cooperative Masters Program Committee. 2010-present.
- Chair, Seminar Committee. 2009-2011.
- Graduate Studies Employment Coordinator. 2006-2009.
- Quantitative Methods Qualifying Exam committee, 2002-2009. Chair, 2005.
- Graduate Studies committee. 2002-2009.
- Undergraduate advisory committee. 2002.
- Member, Search committees for faculty position. 2008-9.
- Member, Director's Advisory Committee (elected by SES faculty), 2006-2008, 2011.
- Member, two search committees for faculty positions. 2007.
- Member, search committee for two faculty positions. 2005.
- Graduate Learning Outcomes Ad Hoc Committee. 2005.
- Undergraduate committee for the development of a curriculum proposal for a School of Economics at Washington State University. 2004.
- Graduate Recruitment Seminar. Eastern Washington University. 2004.
- Undergraduate recruiting committee. 2004-2007.
- Search and Selection committee. Agribusiness position, Fall 2001. Oklahoma State University.
- Graduate Recruitment and Admissions Committee. October 2000 - June 2002. Oklahoma State University.
- Information Services Committee. October 2000 - June 2002.
- Seminars Committee. October 2000 - June 2002. Oklahoma State University.

## Teaching & advising

### 1. Courses taught with formal evaluation

- Research Methods EconS 529. Fall 2017 –
- Development Economics, EconS 427. Fall, 2012–2017.
- Masters Microeconomics, EconS 526. Core course for cooperative Masters program with the University of Idaho. Fall, 2009–2012.

- Econometrics II EconS 512. Fall, 2002 – 2008.
- Italy Study Abroad; Global Environmental and Natural Resource Issues (AgEc 385). Team taught (via rotation). Florence Italy. Spring 2005, 2007, 2009.
- Natural Resource Economics, EconS 581 (Ph.D. field course). Spring 2007 – 2012.
- Natural Resource Economics and Policy, EconS 432 (undergrad) conjoint with EconS 532 (Masters). Spring 2004-2012.
- EconS 513 and EconS 514; Ph.D. Field course sequence. Team taught among three faculty. Fall 2007, Spring 2008.
- Agricultural Economics, ARE 201. Washington State University. Spring 2003.
- AGECE 4503 – Environmental Economics and Resource Development. Fall 2000, 2001. Oklahoma State University.
- AGECE 5213 – Econometric Methods. Spring 2001, 2002. Oklahoma State University.
- Principles of Economics, EC201 Discussion Section. North Carolina State University. Fall 1996 – Spring 1997

## 2. Graduate student committee activities (WSU SES unless otherwise noted.)

- Major adviser. [Initial placement {; current employment if known and different than initial placement}]
  - Ph.D.
    - \* Reetwika Basu. 2021 – Present (Chair).
    - \* Suhina Deol. 2021 – Present (Chair).
    - \* Josh Olsen. 2018 – present (Chair).
    - \* Moses Luri. 2016 – 2020 (Chair).
    - \* Hao Li. 2015 – 2020 (Chair).
    - \* Hyeonjun Hwang. 2017 - 2020. Chair.
    - \* Haseeb Ahmed. 2016 – 2018. Co-Chair with Benjamin Cowan. [Postdoctoral Fellow, Uppsalla University and Asst. Prof. Information Technology University, Lahore, Pakistan with two year leave of absence <https://itu.edu.pk/faculty-itu/haseeb-ahmed/>]
    - \* Brett Devine. 2014 – 2018. Hamline University <https://www.hamline.edu/faculty-staff/brett-devine/>
    - \* Paul Ervin. 2016. [Ministry of Economic and Social Development, Paraguay; North Carolina Division of Emergency Management]
    - \* Jude Bayham. 2013. Honorable Mention, American Economic Applied Economics Association Dissertation Award. [California State Chico; Colorado State University]
    - \* Max St. Brown. 2013. [Asst. Prof., Ekhert College.]
    - \* Adrienne Ohler. 2009 [Co-advisor]. Asst. Prof., Dept. Economics, Illinois State University. Now Associate Prof.
    - \* Mariam Lankoande, 2005. Honorable Mention, AAEA Dissertation Award, 2006.

- \* Hsiang-Tai Lee, 2005. Assoc. Prof. and Chair, Dept. Banking and Finance, National Chi Nan University, Taiwan.
- \* Rita Carriera, 2002. Agricultural Economics, OSU. Visiting Asst. Prof., Dept. Economics, Univ. Arkansas. Currently at Informa, Economics. Inc.
- \* Abdalbaki Bilgic, 2001. Agricultural Economics, OSU. Currently Assoc. Prof., Harran University, Turkey.
- M.S./M.A.
  - \* Nicholas Sheets. M.S. 2011.
  - \* John Cary. M.S. 2009.
  - \* Jun Wang. M.A. 2007.
  - \* Joshua Utt. M.A. 2005.
  - \* Tyre Holfeltz. M.S. 2004.
  - \* Neil Dudley. M.S. 2001. Ag. Economics, OSU
  - \* John Fast. M.S. 2001. Ag. Economics, OSU
- Committee member.
  - Ph.D.
    - \* Gerald Mucheru, University of Nairobi. 2021-present.
    - \* George Semango, Nelson Mandela Institute of Science and Technology, Arusha TZ. 2020-present.
    - \* William Ottenheimer 2022-present.
    - \* Nicholas Potter. 2018-2021.
    - \* Ashutosh Kumar 2019-2021
    - \* Josh Tibbits. 2018-2021
    - \* Jake Wagner. 2018-2021
    - \* Joseph Patten. 2017-2021
    - \* Qingqing Yang. 2015 – 2017
    - \* Ballav Aryal. 2014 – present Interdisciplinary Program, WSU.
    - \* Hyunjung Oh. 2014 – 2019.
    - \* Haowei Yu. 2015 – 2017
    - \* Tristan Skolrud 2014 – 2016
    - \* Miaori Liu. 2013 – 2016
    - \* Bhagyam Chandrasekan. 2013 – 2016
    - \* Darlington Sabasi. 2013 – 2016
    - \* Lisa Dilley. 2011 – 2017 Dept. Civil & Env. Engineering, WSU
    - \* Boying Liu. 2015
    - \* Aaron Olanie. 2013
    - \* Selmin Creamer. 2010 Natural Resource Sciences Dept., WSU
    - \* Srinivasa Ponnaluru. 2009
    - \* Michael Barnes. 2008



- \* Aaron Benson. 2008
- \* Faysal Fahs. 2008
- \* Sean Murphy. 2008
- \* Marco Costanigro. 2007
- \* Sanjoy Bhattachargee. 2005
- \* Selma Kavazeri. 2005
- \* Richard Nelson. 2005
- \* Nonceba Mashabala. 2003 Environmental Science, OK State Univ.
- \* Ishrat Hossein. 2003 Agricultural Economics, OK State Univ.
- \* Mark Leonard. 2001 Agricultural Economics, OK State Univ.
- \* David Mitchell. 2001 Dept. Econ. & Legal Studies, OK State Univ.
- M.S./M.A.
  - \* Pitchayaporn Tantihkarnchana M.S. 2014
  - \* Katie Bilodeau M.S. 2009. Univ. Idaho
  - \* Jude Bayham M.S. 2009. Univ. Idaho
  - \* Erin Wilmot M.A. 2007
  - \* Adam McCoy M.A. 2007
  - \* Brian Lanspery M.S. 2005

### 3. Undergraduate advising

- 2016. Corbin Poppe, Honors Thesis Advisor.
- 2016. Jordan Sperl, Honors Thesis committee.

### 4. Guest Lectures

- 2010-2016, Annually. NATRS 594, Issues and Ethics in Natural Resources and the Environment.
- 2011-2016, annually. GLANHLTH 504, Economic Assessment of livestock disease and intervention. School for Global Animal Health, WSU.
- 2016. ENVR\_SCI 592, Environmental Science, Special Topics. WSU Tri-Cities.
- 2014. Panel Member, WSU Center for Civic Engagement Earth Day event "Are we using our water sustainably?"
- 2014. Environmental Science and Regional Planning 490-590 (Tri-Cities Campus). Water Economics and the Yakima Basin Integrated Plan.
- Forestry FOR 501. November 2004.
- Presentation to the SES Advisory Committee. 2005.
- Fall 2003. AgEcon 311.
- Fall 2002. AgEcon 311 (two lectures) and AgEcon 409/509.
- Zoology 3500. Spring 2001. Oklahoma State University.
- Environmental Science Seminar 5300. Fall 2000. Oklahoma State University.