

# Daniel A. Brent

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Updated: February 2025

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## EDUCATION

Ph.D. in Economics, University of Washington	2013
M.S. Economics, University of Washington	2010
B.S. Economics & Political Science, University of Pittsburgh	2006

## RESEARCH INTERESTS

environmental economics, water resource economics, applied econometrics, causal inference; financial literacy

## ACADEMIC EMPLOYMENT

Pennsylvania State University; Department of Agricultural Economics, Sociology & Education	
Associate Professor	2023 -
Assistant Professor	2018 - 2023
Louisiana State University; Department of Economics	
Assistant Professor	2015 - 2018
Monash University; Department of Economics	
Research Fellow	2013 - 2015

## JOURNAL ARTICLES

Patel, P., Scott, C., Brent, D. (2024) Four birds with one stone? opportunities and challenges in adopting solar irrigation for a sustainable water-energy-food nexus with carbon credits. *Water International*. 1–24.

Brent, D., Ren, Y., Wrenn, D., (2024) The Distributional Impact of FEMA's Community Rating System *Agricultural and Resource Economics Review*, 53 (1)

Yavari,, R., Wu, H., Grady, C., Brent, D., Clark, S., Cibin, R., Duncan, J., Kumar, Chaudhary A., and McPhillips. L, (2023), Identifying sweet spots for green stormwater infrastructure implementation: a case study in Lancaster, Pennsylvania, *Journal of Sustainable Water in the Built Environment* 9 (3)

Wang, R., Brent, D., Wu, H., (2022) Willingness to pay for ecosystem benefits of green stormwater infrastructure in Chinese sponge cities *Journal of Cleaner Production* 371(15), 133462

Brent, D.A., Cook J.H. & Lassiter, A. (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

Brent, DA, L Gangadharan, A Leroux, and PA Raschky. (2021). “Reducing Bias in Preference Elicitation for Environmental Public Goods,” *Australian Journal of Agricultural and Resource Economics*, 1-46.

Brent, D.A. & Beland L.P. (2020) “Traffic Congestion, Transportation Policies, and the Performance of First Responders”, *Journal of Environmental Economics and Management*, 103, 102239

Brent, D.A., Lott, C., Taylor M., Cook, J., Rollins, K., Stoddard, S. (2020) “What causes heterogeneous responses to social comparison messages for water conservation?”, *Environmental and Resource Economics* 77, 503-537

Arora, R.A., Brent, D.A., Jaenicke, E. C. (2020) Is India Ready for Alt-Meat? “Preferences and Willingness to Pay for Meat Alternatives in India”, *Sustainability*, 12, 4377

Brent, DA, Ward, MB. (2019). “Price Perceptions in Water Demand”, *Journal of Environmental Economics and Management*, 98, 102266.

Dorner, Z, Brent, DA, Leroux, A. (2019). “Eliciting Preferences for Intrinsically Risky Attributes” *Land Economics*, 945(4); 494-514.

Brent, DA, Chan, NW. (2019). “Local Public Goods and the Crowding-out Hypothesis: Evidence from Civic Crowdfunding”, *Economics Bulletin*, 39(3), 2142-2154.

Brent DA, Lorah K. (2019). “The economic geography of civic crowdfunding” *Cities*, 2019, 90, 96-114.

Brent DA, Gangadharan L, Mihut A, Villeval MC. (2019) “Taxation, redistribution, and observability in social dilemmas” *Journal of Public Economic Theory*, 21(5), 826-846.

Brent, DA and Ward, MB. (2018). “Energy Efficiency and Financial Literacy” *Journal of Environmental Economics & Management*, 90, 181-216

Beland, LP and Brent, DA. (2018). “Traffic & Crime”, *Journal of Public Economics*, 160, 96-114. media coverage: [New York Times](#); [The Conversation](#); [Scientific American](#); [Salon](#); [NPR LA](#); [BBC 5 Live](#)

Brent, DA and A Gross. (2018). “Dynamic Road Pricing and the Value of Time and Reliability”, *Journal of Regional Science* 58(2) 330-349.

media coverage: [Atlantic Cities](#); [Sightline Daily](#)

Brent, DA, L Gangadharan, A Lassiter, A Leroux, and PA Raschky. (2017). “Valuing Environmental Services Provided by Stormwater Management,” *Water Resources Research*, 53(6) 4709-4721.

Brent, DA, L Friesen, L Gangadharan, and A Leibbrandt. (2017). “Behavioral Insights from Field Experiments in Environmental Economics,” *International Review of Environmental and Resource Economics*, 2017, 10(2), 95-143.

Brent, DA. (2017). “The Value of Heterogeneous Water Rights And the Costs of Water Volatility,” *American Journal of Agricultural Economics*, 99 (1), 73-102.

Brent, DA, JH 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.

Brent, D and S. Rabotyagov. (2013). “Land Use Change from Biofuels Derived from Forest Residue: A Case of Washington State,” *Economics Research International*, Vol. 2013.

WORKING PAPERS available at: [www.danielbrent.com](http://www.danielbrent.com)

- Peer effects in voluntary environmental programs: An application to urban water quality (with Gabe Lara; Douglas Wrenn; Joe Cook; *R&R Journal of the Association of Environmental and Resource Economists*)
- Do behavioral nudges interact with prevailing economic incentives? Pairing experimental and quasi-experimental evidence from water consumption (with Casey Wichman; *Under Review*)
- Financial Literacy, Student Debt, and Academic Achievement

(with Douglas Wrenn; *Under review*)

- Conservation and Distributional Consequences of Pricing Scarce Water During Droughts  
(with Casey Wichman and Derek Wietelman; *Under review*)
- Behavioral responses to two-part tariffs: Evidence from the introduction of volumetric water pricing  
(with Praharsh Patel and Casey Wichman); (*in preparation*)
- Vulnerabilities to salinity risks from climate change and development in the Delaware River Basin  
(with Gabriel Lara, Allison Lassiter and Hui Tan; *in preparation*)
- Consumer value of information and the behavioral response to carbon and calorie food labels  
(with Amit Sharma; *in preparation*)
- Estimating Water Demand at the Intensive and Extensive Margin  
(*in preparation*)

## REPORTS & OTHER PUBLICATIONS

- Cook, JH, Brent, DA, (2021) Do Households Respond to Marginal or Average Price of Piped Water Services? Oxford Research Encyclopedia of Global Public Health
- Daniel A. Brent, (2015) Review of “Living with Water Scarcity” by David Zetland, Water Economics & Policy, 01, 1580003 (2015) [4 pages] DOI: 10.1142/S2382624X1580003X
- Brent, DA, Leibbrandt, A, Smith, LDG., (2014) Economic incentives for managing peak electricity demand: review, options and context analysis, Melbourne, Australia, pp. 1-38.
- 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> pp. 1-196.

## TEACHING EXPERIENCE

**Pennsylvania State University:** Applied Microeometrics II (PhD); Personal Financial Decision-Making; Economic Analysis of Environmental and Resource Policies; Environmental Economics and Policy; Economic Principles of Agribusiness Management; Personal Financial Decision-Making

**Louisiana State University:** Environmental Economics; Intermediate Microeconomic Theory; Principles of Microeconomics

**University of Washington:** Intermediate Microeconomics; Introductory Microeconomics

## ADVISING

### **Advisor:**

Ishani Palandurkar - Penn State EEE Ph.D	Expected 2027
Praharsh Patel - Penn State EEE Ph.D	Expected 2025
Garbriel Lara - Penn State EEE Ph.D (Co-Advisor)	Expected 2025
Yongwang Wang - Penn State EEE Ph.D	Expected 2024
Rashmit Arora - Penn State EEE MS (Co-advisor)	2018

### **Committee Member:**

Xue Xiao Wang - Penn State Real Estate Ph.D	2023
Arun Regmi - Penn State Forest Resources Ph.D	2023
Jinglin Feng - Penn State EEE Ph.D	2023
Asif Rasool - Penn State EEE Ph.D	2023
Rui Wang - Penn State Landscape Architecture Ph.D	2023
Darrah Peklak - Penn State EEE MS	2019
Xiagou Li - Penn State EEE Ph.D	2018



## GRANTS AND AWARDS

“CLIMA: Climate-resilient infrastructure adaptations for maladaptive levee networks” (Co-PI), *USDA NIFA*, \$757,974 (2023-2026)

“Evaluating and Improving the Integrity of Riparian Buffers for Achieving Water Quality Benefits” (Co-PI), *USDA NIFA*, \$750,000 (2023-2026)

“Developing Evidenced-Based Guidelines for Incorporating Information and Increased offerings of Sustainable Diet on Restaurant Menus” (Co-PI), *USDA NIFA*, \$299,887 (2023-2025)

“Vulnerabilities to salinity risks from climate change and development in the Delaware River Basin” (PI), *PA Sea Grant - NOAA*, \$124,934 (2022-2024)

“Ecosystem services assessment for green stormwater infrastructure in Lancaster,PA” (Co-PI), *PA Sea Grant - NOAA*, \$120,000 (2022-2024)

“Analyzing the adoption of solar irrigation pumps in India within the food-energy-water nexus: implications for carbon, groundwater depletion, and agricultural productivity” (PI), *Penn State IEE Seed Grant*, \$29,479 (2021)

“Greening our stormwater: using campuses as living labs for green stormwater infrastructure” (Co-PI), *Penn State Strategic Planning Grants*, \$249,883 (2019-2022)

“Identifying sweet spots for green stormwater infrastructure interventions in Pennsylvania urban communities” (Co-PI), *Penn State IEE Seed Grant*, \$50,000 (2019-2020)

“A global subnational assessment of the relationship between economic development and environmental quality” (PI), *Monash Development and Sustainability Research*, 20,000 AUD (2017-2018)

“Evaluating Truckee Meadows Water Authority’s Conservation Messaging (Co-PI) *Truckee Meadows Water Authority*, \$69,002 (2015-2016).

## PRESENTATIONS

**2023** University of Wyoming | Cornell University | AERE Summer Conference | PERC

**2022** Allied Social Science Association Annual Meeting (ASSA) | Utah State University | Cherry Blossom Institute | National Extension Energy + Sustainability Summit | Eastern Economic Association | AERE Summer Conference | Advances in Field Experiments | Northeast Workshop on Energy Policy and Environmental Economics | University of Maryland, Baltimore County

**2021** AERE Summer Conference

**2020** Seminar in Water Economics onLine

**2019** Zurich ETH | Urban Economic Association Conference | AERE Summer Conference | North American Regional Science Council Conference | Water Insights Seminar, Penn State | Energy & Environmental Economics and Policy Seminar, Penn State

**2018** University of Pennsylvania Green Infrastructure Symposium | Northeastern Agricultural and Resource Economics Annual Meeting | Inaugural JEEM Conference | World Congress of Environmental and Resource Economists

**2017** Allied Social Science Association Annual Meeting (ASSA) | San Diego Water and Energy Workshop | Strata Environmental Policy Workshop | Association of Environmental and Resource Economists Summer Conference (AERE) | Pennsylvania State University | North American Meetings of the Regional Science Association International |

**2016** Association of Public Policy and Management Research Conference (APPAM) | Southern Economic Association Annual Meeting (SEA) | Center for Natural Resource Economics and Policy | Association of Environmental and Resource Economists Summer Conference (AERE)

**2015** Southern Economic Association Annual Meeting (SEA) | Louisiana State University | University of Illinois | Federal Trade Commission | Food and Drug Administration | Arizona State University Water Demand Workshop

**2014** CRC for Water Sensitive Cities Conference | Office of Living Victoria | Resources for the Future

| Rand Corporation | International Water Resource Economics Consortium | World Congress of Environmental and Resource Economists

**2013** Monash Behavioural & Experimental Economics Conference | Monash Centre for Development Economics and Sustainability Workshop | Water Recycling Centre of Excellence | Agricultural and Applied Economics Association Annual Meeting (AAEA) | Western Economic Association International Conference (WEAI) | Association of Environmental and Resource Economists Summer Conference (AERE) | Arizona State University; Water Demand Workshop

**2012** University of Illinois Heartland Environmental and Resource Economics Conference | Camp Resources | National Bureau of Economic Research Summer Institute (NBER) | Association of Environmental and Resource Economists Summer Conference (AERE) | University of Arizona Energy & Environmental Policy Workshop

## PROFESSIONAL ASSOCIATIONS

American Economic Association (AEA); Association of Environmental and Resource Economists (AERE); Agricultural and Applied Economics Association (AAEA); Urban Economics Association (UEA)

## REFEREE

Agricultural Economics | Agricultural Economics Policy & Perspective | American Economic Journal: Economic Policy | American Journal of Agricultural Economics | Ecological Economics; | Agricultural Economics | Economic Inquiry | Environmental and Resource Economics | Journal of the American Water Resources Association | Journal of the Association of Environmental and Resource Economists | Journal of Economic Behavior and Organization | Journal of Environmental Economics and Management | Journal of Environmental Management | Journal of Policy Analysis and Management | Journal of Public Economics | Journal of Regional Science | Journal of the European Economic Association | Landscape and Urban Planning | Management Science | Proceedings of the National Academy of Sciences | Quarterly Journal of Economics | Resource and Energy Economics | Regional Science and Urban Economics | Review of Economic of the Household | Southern Economic Journal | Sustainability | Water Economics and Policy | Water Resources and Economics | Water Resources Research | Weather, Climate, and Society

## PROFESSIONAL EXPERIENCE

### Private Consulting

Shield	2022
Project: Benefit-cost analysis of digital siren and bullhorn	
Yakima Basin Integrated Plan	2014
Project: Benefits to agricultural sector	
SP Ausnet & BehaviourWorks Australia	2014
Project: Incentives for reducing critical peak electricity demand	
City of Phoenix Water Services Department	2013
Project: Using satellite data to classify landscape for residential water demand	

<b>Research Associate</b> , Sergey Rabotyagov - UW SEFS (Seattle, WA)	Sep 2011 - Sep 2013
<b>Research Assistant</b> , Hendrik Wolff - UW Economics (Seattle, WA)	Summer 2011
<b>Survey Statistician</b> United States Department of Energy (Washington, D.C. - time was split between contractor and federal employee)	Jan 2007 - Aug 2008