

# Daniel A. Brent

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Updated: February 2022

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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

## ACADEMIC EMPLOYMENT

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

## JOURNAL ARTICLES

Brent, D.A., Cook J.H. & Lassiter, A. “The effects of eligibility and voluntary participation on the distribution of benefits in environmental programs: an application to green stormwater infrastructure”, *Land Economics* (in press)

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)

- Do behavioral nudges interact with prevailing economic incentives? Pairing experimental and quasi-experimental evidence from water consumption (with Casey Wichman; under review)
- Do nonlinear prices work? Distributional and efficiency consequences of budget-based water rates (with Casey Wichman and Derek Wietelman; in preparation)
- Estimating Water Demand at the Intensive and Extensive Margin (in preparation)
- Peer Effects in Residential Green Infrastructure Adoption ( with Gabe Lara; Douglas Wrenn; Joe Cook; Allison Lassiter; in preparation)
- Financial Literacy, Student Debt, and Academic Achievement (Douglas Wrenn; 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 Microeconometrics II (PhD); Economic Analysis of Environmental and Resource Policies; Environmental Economics and Policy; Economic Principles of Agribusiness Management; Financial Decision-Making for Agribusiness

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

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

### Advising

Praharsh Patel - Penn State EEFE PhD (Advisor)	Expected 2025
Garbriel Lara - Penn State EEFE PhD (Co-Advisor)	Expected 2025
Yongwang Wang - Penn State EEFE PhD (Advisor)	Expected 2024
Rui Wang - Penn State Landscape Architecture PhD (Committee)	Expected 2022
Jhacova Williams - Louisiana State Economics PhD (Committee)	2018
Rashmit Arora - Penn State EEFE MS (Co-advisor)	2018

## GRANTS AND AWARDS

“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 Institute for Energy and the Environment 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 Institute for Energy and the Environment 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.

Grover and Creta Ensley Fellowship, University of Washington, 2013

CEESP Predoctoral Fellow, Arizona State University, 2012

Graduate Teaching Award, University of Washington, 2011

## PRESENTATIONS

**2020** Seminar in Water Economics onLLine

**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 | 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**

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	

**Research Associate**, Sergey Rabotyagov - UW SEFS Sep 2011 - Sep 2013  
(Seattle, WA)

**Research Assistant**, Hendrik Wolff - UW Economics Summer 2011  
(Seattle, WA)

**Survey Statistician** United States Department of Energy Jan 2007 - Aug 2008  
(Washington, D.C. - time was split between contractor and federal employee)