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Placement Director: Marcella Alsan
Director: Nicole Tateosian

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Education

Harvard University
Ph.D. Public Policy, 2018 to 2024 (expected)
A.B. Environmental Science and Public Policy with a Secondary in Economics, 2016

Fields

Primary: Environmental Economics
Secondary: Industrial Organization

References

Professor Joseph E. Aldy
617-496-7213, joseph_aldy@hks.harvard.edu

Professor Myrto Kalouptsidi
617-496-0832, myrto@g.harvard.edu

Professor Ariel Pakes
617-495-5320, apakes@fas.harvard.edu

Professor Robin S. Lee
617-495-2997, robinlee@fas.harvard.edu

Fellowships & Awards

2018 to present	Harvard Environmental Economics Program Pre-Doctoral Fellow
2022	Pre-Doctoral Fellowship on Carbon Pricing and Alternative Instruments in Future U.S. Energy and Climate Policy, Harvard University
2021	Vicki Norberg-Bohm Fellowship, Harvard University
2020, ‘21, ‘22	Certificate of Teaching Excellence, Derek Bok Center, Harvard University
2016	Harvard Environmental Economics Program Prize for Best Thesis

Teaching

August 2022	Ph.D. Math Camp Instructor, Harvard Public Policy, Health Policy, and Business Administration Programs
Spring 2021, ‘22	Economics of Climate Change and Environmental Policy, Harvard University, teaching fellow for Professor Robert N. Stavins
Fall 2020, ‘21	American Economic Policy, Harvard University, teaching fellow for Professors Jeffrey Liebman and Larry Summers
Fall 2020, ’21	Climate Change Policy: Economics and Politics, Harvard Kennedy School, Executive Education Program, teaching fellow for Professor Robert N. Stavins

Employment

2016 to 2018	Booz Allen Hamilton
2015	White House Council on Environmental Quality
2014	U.S. Environmental Protection Agency, National Center for Environmental Economics

Research

2019 to 2020	Wharton Risk Management and Decision Processes Center, University of Pennsylvania, research assistant to Dr. Carolyn Kousky

Job Market Paper

A Policy by Any Other Name: Unconventional Industrial Policy in the US Residential Solar Industry

Consumer subsidies are a common policy tool for supporting the adoption of clean, energy-efficient technologies. In addition to increasing take-up of new technologies, policymakers justify these programs as a means of stimulating infant industries, arguing that the presence of learning-by-doing

and inter-firm knowledge spillovers incentivize entry. However, potential knowledge transfers reduce the incentives for firms to expand output and reduce costs by making cost reductions—in part—a public good. To evaluate this tradeoff, I estimate a dynamic structural model of the market for solar panel installations in California that endogenizes firms' entry and exit decisions and allows for learning-by-doing with incomplete spillovers. I estimate that a 1% increase in a firm's experience as measured by cumulative production leads to a 0.7% reduction in installation-specific costs and that learning spills over across firms. Counterfactual analysis reveals that existing consumer subsidy programs increased installer entry by 9%, indicating that industry cost reductions outweigh the decrease in firms' incentives to reduce costs by expanding output. While consumer subsidies may be effective at increasing industry size, standard industrial policies such as entry subsidies likely provide greater welfare gains.

Publications

Bradt, J.T., C. Kousky and O.E.J. Wing. 2021. "Voluntary Purchases and Adverse Selection in the Market for Flood Insurance." *Journal of Environmental Economics and Management*, 110.

Stock, J.H. and **J.T. Bradt**. 2020. "Analysis of Proposed 20-year Mineral Leasing Withdrawal in Superior National Forest." *Ecological Economics*, 174.

Keenan, J.M. and **J.T. Bradt**. 2020. 'Underwaterwriting:' From Theory to Empiricism in Regional Mortgage Markets in the US." *Climatic Change*, 162: 2043-2067.

Bradt, J.T. 2019. "Comparing the Effects of Behaviorally Informed Interventions on Flood Insurance Demand: An Experimental Analysis of 'Boosts' and 'Nudges.'" *Behavioural Public Policy*, 6(3): 485-515.

Working Papers

Private Benefits from Public Investment in Climate Adaptation and Resilience (w/ Joseph E. Aldy)

Flood protection infrastructure investments, such as Army Corps of Engineer levees, can enhance resilience to flood risks amplified by climate change. We estimate the benefits from levees by exploiting repeat residential property transactions. In areas protected by levees, home values increase 3 percent. Levees impose adverse spillover flood risks to nearby areas that reduce affected home values by 1 percent. Capitalized benefits in protected areas are progressive, but adverse spillover impacts are regressive. While there is little variation across race in capitalized benefits at levee construction, racial sorting occurs post-construction. Capitalized residential property benefits do not exceed levee construction costs.

Papers in Progress

Two Birds, Two Stones: Complementarities and Optimal Targeting of Electric Vehicle and Solar PV Subsidies (w/ Frank Pinter)

Increasing the Adoption of Rooftop Solar in Madhya Pradesh (w/ Teevrat Garg and Meera Mahadevan)

Spatial Sorting, Agglomeration Economies, and Travel Cost Endogeneity in Recreation Demand Models

Clearing the Air: The Welfare Effects of the Clean Air Act's Regional Haze Rule

Hashtags for Hotelling: User-generated Social Media Data and Recreation Demand Models

Seminars & Conferences

2023 National Bureau of Economic Research (NBER) Environmental and Energy Economics Summer Institute; Columbia University Managed Retreat Conference; Association of Environmental and Resource Economists (AERE) Summer Conference; University of California (UC) Virtual Environmental Economics Seminar; UC San Diego; Stanford University; Department of the Treasury; American Economic Association (AEA) Annual Meeting

	2022	The Workshop in Environmental Economics and Data Science (egg timer); Northeast Workshop on Energy Policy and Environmental Economics (egg timer); AERE Summer Conference
	2021	AERE Summer Conference; First Street Foundation Flood Lab
	2020	Federal Housing Finance Authority

Academic Service Referee for: Environmental & Resource Economics, Climate Risk Management, Behavioural Public Policy, Natural Hazards, Economic Inquiry

Co-organizer of Harvard Environmental Economics Graduate Research Lunch, 2020-2022

Memberships American Economic Association, Association of Environmental and Resource Economists

Software skills R, Julia, Stata, Matlab, LaTex

Personal information US Citizen, Married