Jesse Fleischer Buchsbaum

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Academic APPOINTMENTS Postdoctoral Scholar, University of Chicago Energy & Environment Lab, July 2022 - Present

DOCTORAL **EDUCATION** University of California, Berkeley

PhD, Agricultural and Resource Economics, May 2022

Primary Field: Environmental and Resource Economics

Secondary Field: Industrial Organization

Graduate Student Researcher, The Energy Institute at Haas

Professor Meredith Fowlie fowlie@berkeley.edu +1 (510) 642-4820

Department of Agricultural & Resource Economics

ProfessorJames Sallee sallee@berkeley.edu +1 (773) 316-3480

Department of Agricultural & Resource Economics

Professor Catherine Hausman chausman@umich.edu +1 (734) 615-6951

Ford School of Public Policy

Research Interests Energy and Environmental Economics; Applied Microeconomics

PRIOR EDUCATION UC Berkeley, Berkeley, CA USA

M.S. Agricultural and Resource Economics, May, 2018

University of Michigan, Ann Arbor, MI USA

B.S. Economics and Mathematics, May, 2015

Grants and AWARDS

2022	Outstanding	Graduate	Student	Instructor	Award

2021 Energy Institute at Haas and The Opportunity Lab Initiative on Equity in Energy and

Environmental Economics (\$5,250)

2021 J-PAL North America's COVID-19 Recovery and Resilience Initiative (\$50,000)

2017 NSF Graduate Research Fellowship Program honorable mention

2015 Osterweil Prize (Awarded by University of Michigan Department of Economics for "an

outstanding record in economics and the greatest degree of social awareness")

2015 Graduated with High Honors (Awarded by the University of Michigan Department of Eco-

nomics)

Research Papers

Long-run price elasticities and mechanisms: Empirical evidence from residential electricity consumers (Job Market Paper)

Long-run elasticities are difficult to empirically estimate, and credible quasi-experimental estimates of long-run elasticities are rare, especially in the energy economics literature. However, long-run elasticities are crucial for calculating welfare, forecasting demand, and evaluating policy. In this paper, I leverage a novel source of plausibly exogenous long-lasting price variation for one of the first quasi-experimental estimates of the long-run price elasticity of demand for residential electricity consumers. I find that consumers are much more responsive to prices in the long run than the short run, with a long-run elasticity estimate of -2.4, in contrast with a short-run elasticity estimate of -0.36. Furthermore, I explore some of the mechanisms driving this price response, and find that

residential adoption of rooftop solar alone can explain 26% of the observed response in consumption. My findings highlight the impact of price-based policies, and suggest that these types of policies may be more effective than previously thought in inducing energy transitions to cleaner technologies.

Spillovers from Ancillary Services to Wholesale Power Markets with Catherine Hausman, Johanna L. Mathieu, and Jing Peng. Accepted at The RAND Journal of Economics and NBER Working Paper. Past version available here.

In electricity markets, generators are rewarded both for providing energy and for enabling grid reliability. The two functions are compensated with two separate payments: energy market payments and ancillary services market payments. We provide evidence of changes in the generation mix in the *energy* market that are driven by exogenous changes in an *ancillary services* market. We provide a theoretical framework and quasi-experimental evidence for understanding the mechanism, showing that it results from the multi-product nature of power plants combined with discontinuities in costs. Although research in economics typically focuses solely on the energy market, our results suggest that spillovers between markets are important as well. Furthermore, policy changes relating to grid operations, grid reliability, or climate change could have unintended effects.

RESEARCH IN PROGRESS

Exploring bill affordability for low income electricity customers in California with Meredith Fowlie

The COVID-19 pandemic and resulting economic recession made it challenging for many customers to pay their bills on time. Utilities across the country have adopted a number of short-term solutions to assist customers with bill payment, often allowing customers to temporarily accumulate debts without immediate consequences. While these interventions offered much-needed short-term assistance, they are unsustainable in the long term. As we come out of the crisis, it remains an open question which policy levers should be pushed to effectively help utility customers recover from the debts that have accumulated. In this project, in collaboration with East Bay Community Energy (EBCE), we run randomized experiments that allow us to estimate how low-income customers respond to policies that reduce electricity prices and/or provide temporary debt relief. We use standard economic methods to evaluate how each intervention changes customers' behaviors in electricity bill payment, electricity consumption, and payment of other bills, and explore what drives behavioral changes by considering treatment effect heterogeneity. The results of this study will provide insight into the mechanisms that drive utility customer behaviors in payment and consumption, as well as the policy instruments that will be most effective in recovering from the current crisis.

Presentations	2023	Western Economics Association International (WEAI) Annual Conference		
	2023	Association of Environmental and Resource Economists (AERE) Summer Conference		
	2023	Midwest Economics Association (MEA) Annual Conference		
	2021	AERE Summer Conference		
2020-21		UC Berkeley Electricity Markets Seminar		
20	2020-21	UC Berkeley Environmental and Resource Economics Seminar (ERE)		
	2020	Giannini Foundation of Agricultural and Resource Economics Student Conference (GARESC)		
TEACHING	2021	Graduate Student Instructor, Regulation of Energy and the Environment, Meredith Fowlie, UC Berkeley		
	2018	Reader, Introductory Applied Econometrics, Sofia Villas-Boas, UC Berkeley		
	2017	Reader, Introductory Applied Econometrics, Sofia Villas-Boas, UC Berkeley		

PRIOR Environmental Law & Policy Center, Chicago, IL USA

Employment Economic Policy Associate

June 2015 - June 2017

Professional and Service Activities	2021	Mentor, Energy Institute and Opportunity Lab Undergraduate Initiative on Equity in En-
	2020-22 2020-22	ergy and Environmental Economics Foundary and Arganizary Foundary of Page and Founty Pageling Crown, UC Parkelov
		Founder and organizer, Economics of Race and Equity Reading Group, UC Berkeley
		Member, Diversity, Equity, and Inclusion Subcommittee on Research and Pedagogy, UC
	2020	Berkeley
		Conference organizer, Giannini Foundation of Agricultural and Resource Economics Student
		Conference (GARESC)