

Fiona Burlig

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Academic appointments

Assistant Professor, Harris School of Public Policy, University of Chicago, 2018 –
Faculty Research Fellow, National Bureau of Economic Research, 2019 –
Postdoctoral Scholar, Department of Economics, University of Chicago, 2017 – 2018

Affiliations and additional appointments

Research affiliate, Energy Policy Institute at the University of Chicago (EPIC) and EPIC-India, 2017 –
Catalyst, Berkeley Initiative for Transparency in the Social Sciences, 2017 –
Faculty affiliate, E2e Project, 2017 –
Faculty affiliate, Energy and Environment Lab, University of Chicago Urban Labs, 2018 –
Invited researcher, ATAI and K-CAI, J-PAL, 2020 –
Editorial council, *Journal of Environmental Economics and Management*, 2021 –

Education

Ph.D., Agricultural and Resource Economics, UC Berkeley, 2017
M.S., Agricultural and Resource Economics, UC Berkeley, 2013
B.A., Economics, Political Science, and German, Williams College, 2012
Highest honors in economics; Cum Laude

Research interests

Energy, environmental, and resource economics; Development economics; Applied econometrics

Publications

Out of the darkness and into the light? Development effects of rural electrification (with Louis Preonas)
Accepted, *Journal of Political Economy*


Burlig, Fiona. 2018. "Improving transparency in observational social science research: A pre-analysis plan approach," *Economics Letters* 168: 56–60.

Burlig, Fiona, Louis Preonas, and Matt Woerman. 2020. "Panel data and experimental design," *Journal of Development Economics* 144: 102458.

Burlig, Fiona, Christopher Knittel, David Rapson, Mar Reguant, and Catherine Wolfram. 2020. "Machine learning from schools about energy efficiency," *Journal of the Association of Environmental and Resource Economists*, 7(6): 1181–1217.

Burlig, Fiona, James Bushnell, David Rapson, and Catherine Wolfram. 2021. "Low energy: Estimating electric vehicle electricity use," *AEA Papers and Proceedings*, 111: 430–435.

Working papers

Blackouts in the developing world: The role of wholesale electricity markets (with Akshaya Jha ) and Louis Preonas)

Energy, groundwater, and crop choice (with Louis Preonas and Matt Woerman). NBER Working Paper No. 28706.

Reap what your friends sow: Social networks and technology adoption (with Andrew Stevens).

Selected work in progress

The value of forecasts: Experimental evidence from developing-country agriculture (with Amir Jina, Erin Kelley, Gregory Lane, and Harshil Sahai)

Accepted via pre-results review, *Journal of Development Economics*; final publication venue TBD

Liquidity constraints: Allocating clean water to the rural poor (with Amir Jina, Nadia Lucas, and Anant Sudarshan)

Unpaid debt and targeted enforcement: Experimental evidence from Indian utilities (with Anant Sudarshan)

Measuring adaptation to climate: Temperature and groundwater extraction in California agriculture (with R. Aaron Hrozencik, Louis Preonas, and Matt Woerman)

Other writing

"Amid climate-linked drought, farmers turn to new water sources. Those are drying up too." (2019). [Forbes blog](#).

"Cutting energy use is one way cash-strapped schools can save. But by how much?" (2017). [Forbes blog](#).

"How large are the economic benefits of rural electrification?" with Louis Preonas (2017). *ARE Update*, 20(3): 4–6. University of California Giannini Foundation of Agricultural Economics.

Teaching

PPHA 34600: Masters' program evaluation, University of Chicago, 2019 –

Mean evaluation score: 4.3/5

Analyzing and exploring data, [Expanding Diversity in Economics](#), University of Chicago, 2021 –

Invited talks

2021, *incl. scheduled*: Australian Energy Markets workshop; Stanford Earth Systems Science; Gothenburg Department of Economics; Berkeley-Harvard-Yale EEE seminar; SUNY Binghamton; NBER transportation conference (x2); NBER EEE spring meetings (discussant); Cornell

2020: ASSA meetings; TREE; TWEEDS; WEAI meetings; University of Chicago – EPIC

2019: AERE Meetings; University of Tokyo; NBER EEE Spring Meetings; Instituto Tecnológico Autónomo de México; Hong Kong University of Science and Technology; Indian Statistical Institute; ASSA Meetings; University of British Columbia; Heartland; BITSS RT2

2018: UC Davis; Carnegie Mellon; University of Maryland – AREC; Heartland; Inter-American Development Bank; Resources for the Future; UC Davis – Ag Econ; Midwest Energy Fest; EI @ Haas Energy Camp; SETI @ Duke; Northwestern Microgrid Symposium; University of Illinois, Urbana Champaign; University of Pennsylvania – Wharton; Stockholm University; University of Chicago – Energy and Climate Lunch; Columbia – SIPA; Kansas State – Ag Econ; ASSA Meetings

2017: UC Santa Barbara; University of Chicago – EPIC; Heartland; Williams College; Camp Resources; NBER Summer Institute – EEE; BITSS RT2; University of Chicago – Harris

2016 and earlier: BITSS Annual Meeting, NEUDC – MIT; UC Berkeley ERE Seminar; BITSS Summer Institute; PacDev; Occasional Workshop, EI Haas Energy Camp; NEUDC – BU

Selected grants and awards

J-PAL King Climate Action Initiative (with Amir Jina, Erin Kelley, Greg Lane, and Harshil Sahai), 2022, \$150,000

Templeton World Charity Foundation (with Anant Sudarshan), 2021, \$234,000

National Bureau of Economic Research (with Jim Bushnell and Dave Rapson), 2021, \$59,000

National Science Foundation (with Jim Bushnell and Dave Rapson), 2021, \$600,000

Griffin Applied Economics Incubator (with Anant Sudarshan), \$50,000

Agricultural Technology Adoption Initiative (with Faraz Hayat, Amir Jina, Erin Kelley, Greg Lane, and Harshil Sahai), 2020, \$80,432

J-PAL King Climate Action Initiative (with Jim Bushnell and Dave Rapson), 2020, \$75,000

J-PAL North America (with Ludovica Gazze, Michael Greenstone, and Olga Rostapshova), 2020, \$303,445

Becker Friedman Institute (with Ludovica Gazze, Michael Greenstone, and Olga Rostapshova), 2020, \$55,000

USDA ERS (with Louis Preonas and Matt Woerman), 2020, \$150,000

UCB Inst. for Transportation Studies (with Catherine Wolfram, Jim Bushnell, and Dave Rapson), 2020, \$78,016

Weiss Family Program Fund for Research in Development Economics (with Anant Sudarshan), 2020, \$32,428

Becker Friedman Institute (with Anant Sudarshan), 2020, \$30,000

Alfred P. Sloan Foundation (with Duncan Callaway and Catherine Wolfram), 2020, \$99,938

J-PAL North America (with Ludovica Gazze, Michael Greenstone, and Olga Rostapshova), 2019, \$49,967

Becker Friedman Institute (with Amir Jina), 2019, \$50,000

Tata Centre for Development at UChicago, 2019 (x2), \$100,000, \$50,000

Becker Friedman Institute, 2018, \$23,000

UCB Inst. for Transportation Studies (with Catherine Wolfram, Jim Bushnell, and Dave Rapson), 2018, \$71,747

Tata Centre for Development at UChicago, 2018, \$44,680

E2e Project / Alfred P. Sloan Foundation (with Louis Preonas and Matt Woerman), 2017, \$222,289
Giannini Foundation Minigrant (with Louis Preonas and Matt Woerman), 2017, \$26,882
National Science Foundation Graduate Research Fellowship, 2012 – 2017
BITSS SSMART Grant (with Louis Preonas and Matt Woerman), 2015, \$29,355
Sidney Hoos Award for Best Second Year Project in Econometrics, UC Berkeley, 2014
Jack Larned Class of 1942 Prize for Best Development Economics Senior Thesis, Williams College, 2012

Service

Referee: *American Economic Journal: Applied Economics*; *American Economic Journal: Economic Policy*; *American Economic Review*; *American Economic Review: Insights*; *American Journal of Agricultural Economics*; *Economic Development and Cultural Change*; *Economic Inquiry*; *The Energy Journal*; *Energy Policy*; *Journal of the Association of Environmental and Resource Economists*; *Journal of Development Economics*; *Journal of Industrial Economics*; *Journal of Political Economy*; *Journal of Public Economics*; *Journal of South Asian Development*; *Nature Energy*; *Review of Economics and Statistics*; *Review of Economic Studies*; *Science*; *Science Advances*; Global Innovation Fund; Alfred P. Sloan Foundation; National Science Foundation

Junior faculty and postdoc recruiting, University of Chicago, 2017 – present

Co-organizer, EPIC seminar, 2019 – present

Co-organizer, Development Workshop, 2021 – present

PhD admissions (student member), UC Berkeley, 2015 – 2016

Junior faculty recruiting, (student member), UC Berkeley, 2014 – 2015

Women in Economics at Berkeley, Department Liaison, 2015 – 2017

Miscellaneous

Computing: Stata, R, Python, ArcGIS, L^AT_EX

Languages: English (native), Dutch (proficient), German (proficient)

Citizenship: USA, Netherlands, UK