

Edward A. Rubin, CV

Academic Positions

Assistant Professor, University of Oregon, Department of Economics, 2018–present

Education

B.S. Mathematics, University of Nebraska–Lincoln, 2007
M.S. Agricultural Economics, University of Nebraska–Lincoln, 2013
M.S. Statistics, University of Nebraska–Lincoln, 2013
M.S. Agricultural and Resource Economics, UC Berkeley, 2015
Ph.D. Agricultural and Resource Economics, UC Berkeley, 2018
Committee: Maximilian Auffhammer, Meredith Fowlie, Reed Walker

Primary interests: Environmental & Energy Economics, Applied Econometrics & Data Science, Inequality & Public Policy

Secondary interests: Health Economics, Development Economics, Criminal Justice

Publications

Strategic Shutdowns of Air Quality Monitors: Evidence from Jersey City and Across the U.S.

Yingfei Mu, Edward Rubin, and Eric Zou. *REStat (Forthcoming)*

Quantifying heterogeneity in the price elasticity of residential natural gas

Edward Rubin and Maximilian Auffhammer. 2024 (*Forthcoming*). *Journal of the Association of Environmental and Resource Economists*.

The Economic Impact of Critical Habitat Designation: Evidence from Vacant-Land Transactions

Maximilian Auffhammer, Maya Duru, Edward Rubin, and David L. Sunding. 2020. *Land Economics*, 96(2), 188–206.

Bringing Satellite-Based Air-Quality Estimates Down to Earth

Meredith Fowlie, Edward Rubin, and Reed Walker. 2019. *AEA Papers and Proceedings*, 109: 283–88.

(Book) Data Science for Public Policy

Jeffrey Chen, Edward Rubin, and Gary Cornwall. 2021. *Springer*

Working Papers

The strategic local geography of US electricity emissions

John Morehouse and Edward Rubin
Conditionally accepted, JAERE

Customer Discrimination in the Workplace: Evidence from Online Sales

Erin Kelley, Gregory Lane, Edward Rubin, and Matthew Pecenco
Accepted, JOLE

What can we machine learn (too much of) in 2SLS? Insights from a bias decomposition

Connor Lennon, Edward Rubin, and Glen Waddell
Submitted

When we change the clock, does the clock change us?

Patrick Baylis, Severin Borenstein, and Edward Rubin

Glyphosate exposure and GM seed rollout unequally reduced perinatal health

Edward Rubin and Emmett Saulnier

Revise and resubmit, PNAS

Unequal avoidance: Disparities in smoke-induced out-migration

M. Steven Holloway and Edward Rubin

Are our hopes too high? Testing cannabis legalization's potential to reduce criminalization

Edward Rubin

Do aerially applied pesticides affect local air quality? Empirical evidence from California's San Joaquin Valley

Edward Rubin

Research in Progress

Declining power-plant emissions, co-benefits, and regulatory rebound

Meredith Fowlie, Edward Rubin, and Catherine Wright

Mismeasurement in exposure and access: Insights from cellphone data

Edward Rubin

Interactions between measurement error and policy

Edward Rubin

How salient are environmental risks? The short- and long-run effects of lead exposure in piped water

Edward Rubin

Teaching

EC607: Econometrics (III): Causal inference

- University of Oregon: Spring 2024, Spring 2023, Spring 2022, Spring 2021, Spring 2020, Spring 2019
- Doctoral level

EC524: Econometrics (II): Prediction and machine learning

- University of Oregon: Winter 2022, Winter 2021, Winter 2020

EC421: Introduction to Econometrics (II)

- University of Oregon: Spring 2022, Winter 2022, Winter 2021, Spring 2020, Winter 2020, Spring 2019, Winter 2019
- Undergraduate level

ARE 212: Econometrics - Multiple Equation Estimation

- University of California, Berkeley: Spring 2017, Spring 2018
- Doctoral level: taught recitation section and built section website/notes

STAT 380: Statistics and Applications

- University of Nebraska-Lincoln: Summer 2012, Fall 2012, Spring 2013
- Undergraduate level: sole instructor for the course

STAT 218: Introduction to Statistics

- University of Nebraska-Lincoln: Spring 2011, Summer 2011, Fall 2011
- Undergraduate level: sole instructor for the course

Honors, Awards, and Fellowships

EPA: *A Retrospective Analysis of Indirect Air Quality Benefits from Power-Sector Emissions Reductions*, 2021

Sloan Foundation (for TWEEDS), 2020–2022

University of Oregon Data-Science Initiative Seed Funding, 2019–2020

University of Oregon Program Grant, Fall 2019

EPA EmPOWER Air Data Challenge Winner, 2019–2020
with Meredith Fowlie

Private Enterprise Development in Low-Income Countries (PEDL) Exploratory Research Grant, 2018–2019
with Erin Kelley, Gregory Lane, and Matthew Pecenco

Outstanding Graduate-Student Instructor, UC Berkeley, 2018

Private Enterprise Development in Low-Income Countries (PEDL) Exploratory Research Grant, 2017–2018
with Erin Kelley and Matthew Pecenco

Giannini Foundation Mini-Grant, 2017–2018
with Maximilian Auffhammer

UC Berkeley ARE Summer Grant, 2016

GAANN Fellowship 2013–2015

Presentations

Spatial data (and) science: Fundamentals, applications, and frontiers in env. and resource economics

EAERE Summer School, July 2024

Perinatal health effects of herbicides: Glyphosate and the U.S. roll-out of GM crops

OSU Policy, June 2024

Perinatal health effects of herbicides: Glyphosate and the U.S. roll-out of GM crops

AERE Annual Summer Conference, May 2024

Perinatal health effects of herbicides: Glyphosate and the U.S. roll-out of GM crops

UCSB Bren, April 2024

Perinatal health effects of herbicides: Glyphosate and the U.S. roll-out of GM crops

LEEP (University of Exeter), February 2024

Power Plants, Air Pollution, and Regulatory Rebound

EPIC Junior Workshop (University of Chicago), April 2023

Declining power-plant emissions, co-benefits, and regulatory rebound

University of Nebraska–Lincoln, November 2022

What's missing in environmental (self-)monitoring? Evidence from strategic shutdowns of pollution monitors

Annual Conference of the European Association of Environmental and Resource Economists, June 2022

Power Plants, Air Pollution, and Regulatory Rebound

Oregon State University, May 2022

Power Plants, Air Pollution, and Regulatory Rebound

National Graduate Institute for Policy Studies (GRIPS), April 2022

Power Plants, Air Pollution, and Regulatory Rebound

UC Berkeley ARE, April 2022

What's missing in environmental (self-)monitoring? Evidence from strategic shutdowns of pollution monitors

CU Environmental & Resource Economics Workshop, October 2021

Pollution co-benefits and regulatory rebound

RFF/EPA, October 2021

What's missing in environmental (self-)monitoring? Evidence from strategic shutdowns of pollution monitors

AERE Remote Conference, June 2021

Downwind and out: The Strategic dispersion of power plants and their pollution

AERE Remote Conference, June 2021

A retrospective analysis of indirect air-quality benefits from power-sector emissions reductions

RFF/EPA (Online), December 2020

Estimating and decomposing “the” elasticity of demand: Empirical and policy insights from 600 million natural gas bills

Duke Energy Data Analytics Symposium, December 2020

Mismeasurement in exposure and access: Insights from cellphone data

AERE Remote Conference, June 2020

Declining power-plant emissions, co-benefits, and regulatory rebound

ASSA Annual Meeting, January 2020

Mismeasurement in exposure and access: Insights from cellphone data

Western Economic Association International (WEAI) Annual Conference, June 2019

The economic impact of critical-habitat designation: Evidence from vacant-land transactions

The Occasional Workshop (UCSB), November 2018

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

World Congress of Environmental Economics (WCERE), June 2018

Is “Michelle” less productive than “Michael”? A field experiment on consumer-based gender discrimination in the marketplace

UC Berkeley, Computational Text Analysis Working Group, April 2018

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

University of Oregon, Economics, February 2018

Is “Michelle” less productive than “Michael”? A field experiment on consumer-based gender discrimination in the marketplace

IGC-PEDL Workshop at Oxford, December 2017

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

Heartland Environmental and Resource Economics Workshop, September 2017

Is “Michelle” less productive than “Michael”? A field experiment on consumer-based gender discrimination in the marketplace

Berkeley Development Economics Lunch, September 2017

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

Camp Resources, August 2017

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

AAEA Annual Meeting, August 2017

Do marijuana stores increase or reduce neighborhood crime? Evidence from Denver, Colorado

UC Berkeley, Summer Research Seminar, July 2017

Natural gas elasticities and optimal cost recovery under heterogeneity: Evidence from 300 million natural gas bills in California

AERE Annual Summer Conference, June 2017

Summertime, and pass-through is easier: Chasing down price elasticities for residential natural gas demand in 275 million bills

22nd Annual POWER Conference on Energy Research and Policy, March 2017

Natural gas elasticities, seasonal heterogeneity, and consumer behavior: Evidence from 300M+ bills

UC Berkeley, Environmental and Resource Economics Seminar, November 2016

(Mile-) High Quandaries: Evidence from Denver that Marijuana Legalization May Increase Drug Arrests

UC Berkeley, Environmental and Resource Economics Seminar, April 2015

Irrigation and Climatic Effects on Water Levels in the U.S. High Plains Aquifer Along the 41st Parallel in Nebraska (and Several Questions about Model Complexity)

University of Nebraska–Lincoln, Statistics Departmental Seminar, March 2013

Irrigation and Climatic Effects on Water Levels in the U.S. High Plains Aquifer

International Conference of Agricultural Economists, poster, August 2012

Academic Service

Advising

- *PhD committee chair* Mary Kopriva (co-chair); Connor Lennon (co-chair); Garrett Stanford (chair)
- *PhD dissertation committee* Robert McDonough; Max Mindock; John Morehouse; Jenni Putz; Meysam Rabiee; Kyle Wilson; Sichao Zhang
- *Undergraduate* Joseph Andersen (department; advisor), Zoë Arnaut (honors; reader); Eleanor Franks (honors; reader); Kara Krnacik (honors; chair); Aidan Pott (honors; chair)

Other

- Co-founded/Organized TWEEDS (The Workshop in Environmental Economics and Data Science)
- Co-founded/Organized OSWEET (Online Student Workshop in Environmental, Energy, and Transportation)
- Co-founded/Organized GoSee (Global Open Series in Environmental Economics)
- Co-organize applied microeconometrics workshop at UO
- **Referee:** Proceedings of the National Academy of Science (PNAS) American Economic Journal: Economic Policy (AEJ Policy), Journal of the Association of Environmental and Resource Economists (JAERE), Journal of Public Economics (JPuE), Economic Inquiry, Journal of Environmental Economics and Management (JEEM), Land Economics, Resource and Energy Economics (REE), Energy Policy, Journal of Policy Analysis and Management (JPAM), Water Economics and Policy (WEP), Nature Communications: Earth & Environment, Economics Letters
- Coordinated Environmental, Energy, and Resource Economics Seminar (UCB)
- Organized biweekly (twice per week) departmental lunches (UCB)
- Organized third-year research workshop (UCB)
- Organized departmental coffee hour (UCB)
- Mentored first-year graduate students (UCB)

Skills

Computational

- **Computing:** R, Python, Stata, Julia, QGIS, MATLAB, Mathematica, SAS
- **Design:** LaTeX, Markdown, Adobe Suite Design Suite, Microsoft Suite

Linguistic

- English (fluent)
- Spanish (conversational)

Contact

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- **twitter** @edrubin
- **instagram** @edwardarubin
- **github** edrubin