

# CV: Edward A. Rubin

## 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

### **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

### **Quantifying heterogeneity in the price elasticity of residential natural gas**

Edward Rubin and Maximilian Auffhammer

*Conditionally accepted*, JAERE

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

Yingfei Mu, Edward Rubin, and Eric Zou

*Revise and resubmit*, RESTAT

### **The strategic local geography of US electricity emissions**

John Morehouse and Edward Rubin

*Under review*

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

Connor Lennon, Edward Rubin, and Glen Waddell

*Under review*

### **Unequal avoidance: Disparities in smoke-induced out-migration**

M. Steven Holloway and Edward Rubin

*Under review*

**Customer Discrimination in the Workplace: Evidence from Online Sales**

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

**Coordination versus environmental adaptation: How much does standardized time change behavior?**

Patrick Baylis, Severin Borenstein, 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

**Perinatal health effects of herbicides: Glyphosate, Roundup, and the rollout of GM crops**

Edward Rubin and Emmett Saulnier

**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 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

### **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

**Graduate students:** Mary Kopriva (UO, co-chair), Max Mindock (UO, committee member); Kyle Wilson (UO, committee member)

**Other**

- 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 microeconomics workshop at UO (with Glen Waddell)
- **Referee:** Journal of the Association of Environmental and Resource Economists (JAERE), Journal of Public Economics (JPuE), Economic Inquiry, Journal of Environmental Economics and Management (JEEM), Resource and Energy Economics (REE), Energy Policy, Journal of Policy Analysis and Management (JPAM), Water Economics and Policy (WEP)
- 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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