

# CV: Edward A. Rubin

## Academic Positions

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

## Education

Ph.D. Agricultural and Resource Economics, UC Berkeley, 2018  
M.S. Agricultural and Resource Economics, UC Berkeley, 2015  
M.S. Statistics, University of Nebraska–Lincoln, 2013  
M.S. Agricultural Economics, University of Nebraska–Lincoln, 2013  
B.S. Mathematics, University of Nebraska–Lincoln, 2007

**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

### **Decomposing “the” Elasticity of Demand: Empirical and Policy Insights from 300 Million Natural Gas Bills**

Maximilian Auffhammer and Edward Rubin

*Revise and resubmit*

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

Yingfei Mu, Edward Rubin, and Eric Zou

### **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 and simulation**

Connor Lennon, Edward Rubin, and Glen Waddell

### **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

### **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

### **Is “Michelle” less productive than “Michael”? A field experiment on consumer-based gender discrimination**

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

## Teaching

### **EC607: Econometrics (III): Causal inference**

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

### **EC524: Econometrics (II): Prediction and machine learning**

- University of Oregon: Winter 2021, Winter 2020

### **EC421: Introduction to Econometrics (II)**

- University of Oregon: 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**

**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 microeconometrics workshop at UO (with Glen Waddell)
- **Referee:** Journal of the Association of Environmental and Resource Economists (JAERE), Journal of Public Economics (JPubE), 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)

## References

**Maximilian Auffhammer**, UC Berkeley

**W. Reed Walker**, UC Berkeley

**Solomon Hsiang**, UC Berkeley

## Contact

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