

Patrick Baylis

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Education

- 2016 PH.D. in Agricultural and Resource Economics, University of California, Berkeley (expected May 2016)
 - Areas of specialization: Applied microeconomics, applied econometrics, environmental economics, climate change economics, energy economics
 - Dissertation Committee: **Max Auffhammer** (chair), **Severin Borenstein**, **Meredith Fowlie**, **Solomon Hsiang**
- 2012 M.S. in Agricultural and Resource Economics, University of California, Berkeley
- 2008 B.A. in Political Science/International Relations, Carleton College

Job Market Paper

[TEMPERATURE AND TEMPERAMENT: EVIDENCE FROM A BILLION TWEETS](#)

I combine observations from a geographically and temporally dense corpus of more than a billion Twitter status updates with sentiment analysis and machine learning algorithms in order to understand preferences for temperature, with implications for climate change.

Work experience

- 2011-2015 GRADUATE STUDENT RESEARCHER, Energy Institute at Haas
- 2009-2011 SUSTAINABILITY CONSULTANT, Ackerstein Sustainability
- 2008-2009 MANAGEMENT CONSULTANT, Arcadia Solutions

Grants, honors & awards

- 2015 Giannini Foundation grant (joint with Judson Boomhower)
- 2013 Outstanding Graduate Student Instructor award
- 2008 Phi Beta Kappa, Carleton College
- 2006, 2007 Dean's list, Carleton College

Research

WORKING PAPERS

[DEFAULT EFFECTS, FOLLOW-ON BEHAVIOR AND WELFARE IN RESIDENTIAL ELECTRICITY PRICING PROGRAMS](#) (with Peter Cappers, Meredith Fowlie, Anna Spurlock, Annika Todd, and Catherine Wolfram)

- We study default effects in the context of a large randomized controlled trial of electricity pricing strategies. By comparing results from both opt-in and opt-out treatment groups, we are able to estimate the effect of the program on “complacent” customers, i.e. customers who only enroll in the program when placed in opt-out treatment group.

WORKS IN PROGRESS

[PROJECTING THE IMPACT OF CLIMATE CHANGE ON U.S. ELECTRICITY LOAD](#) (with Max Auffhammer and Catherine Hausman)

- Using a panel of disaggregated electricity demand consumption data that covers the entire United States, we link a statistically estimated relationship between temperature and load to a set of 20 climate models to simulate changes in future electricity demand.

[WILDFIRE AND ADAPTATION IN A CHANGING CLIMATE](#) (with Judson Boomhower)

- We exploit the exogenous shock of a wildfire to explore the efficiency of casualty insurance markets in the Wildland Urban Interface.

[CRITICAL GAS: MEASURING THE BICYCLE USAGE RESPONSE TO GAS PRICES](#)

- I construct estimates of the bike usage elasticity to changes in the price of gas, employing a novel panel dataset constructed from Google searches over time.

Teaching

2013

GRADUATE STUDENT INSTRUCTOR, **ARE212: Multiple Equation Estimation**

- Graduate econometrics; Maximilian Auffhammer, instructor
- Section [material](#) applies economic theory to empirical data work using R
- Received Outstanding Graduate Student Instructor award

Presentations

2015

October 23: UC-Berkeley (Energy Institute Seminar)
October 17: University of Illinois (Heartland Workshop)
September 25: UC-Berkeley (ARE Seminar)
September 4: University of Colorado (Vail Workshop)
July 15: UC-Berkeley (Climate Workshop)
July 13: UC-Berkeley (Energy Institute Research in Progress Seminar)

June 5: Associate of Environmental and Resource Economics Annual Conference (Sponsored presenter)

April 16: UC-Berkeley (Climate Change Economics Lunch)

2014

October 27: UC-Berkeley (Energy Institute Research in Progress Seminar)

April 25: UC-Berkeley (Energy Institute Research in Progress Seminar)

Languages

HUMAN

English (fluent), French (semi-fluent), Spanish (beginner)

PROGRAMMING

R, Stata, Python, SQL, Julia, Matlab, ArcGIS

Service

ADMISSIONS COMMITTEE, Student representative, University of California Berkeley

MEMBER, American Economic Association

MEMBER, Association of Environmental and Resource Economists