Patrick Baylis

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Education

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

M.S. in Agricultural and Resource Economics, University of California, Berkeley 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 an 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

Languages

Human

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

PROGRAMMING

R, Stata, Python, SQL, Julia, MATLAB, ArcGIS

Presentations

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 (Spon-

sored presenter)

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

October 27: UC-Berkeley (Energy Institute Research in Progress Seminar)
April 25: UC-Berkeley (Energy Institute Research in Progress Seminar)

Service

Admissions committee, Student representative, University of California Berkeley Member, American Economic Association
Member, Association of Environmental and Resource Economists