

DAVID MICHAEL ROTHSCHILD

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New York City

CURRENT POSITIONS

Microsoft Research, New York, NY (May 2012 – Present) Economist

Columbia University, (May 2012 – Present) Fellow, Applied Statistics Center

University of Pennsylvania, (2014-Present) Fellow, Penn Program on Opinion Research and Election Studies

PAST POSITIONS

Yahoo! Research, New York, NY (May 2011 – May 2012) Post-Doctoral Economist

New York University, (2015-2016), Member, Social Media and Political Participation

EDUCATION

University of Pennsylvania's Wharton School of Business, Philadelphia, PA (July 2006 – May 2011)

Ph.D. in Applied Economics (Business and Public Policy concentration)

Advisor: Justin Wolfers, *Secondary Advisor*: Sunshine Hillygus

Carlos and Rosa de la Cruz PhD Fellowship

Brown University, Providence, RI (September 1998 – May 2002)

Sc.B. in Civil Engineering and B.A. in History

Cumulative GPA 3.9/4.0

Honors: *Magna Cum Laude* (highest as Brown bestows no summa cum laude), *Phi Beta Kappa*, national liberal arts and sciences honors society, *Tau Beta Pi*, national engineering honor society, junior year induction, and *Sigma Xi*, national science research honor society

RESEARCH FIELDS

Behavioral Economics/Public Opinion, Decision Making/Marketing, Experimental Economics, Political Economy, Public Economics/Public Policy

PUBLISHED

1) [Forecasting Elections: Comparing Prediction Markets, Polls, and their Biases](#)

Public Opinion Quarterly. 2009. Vol. 73, No. 5, pp. 895-916.

[Debiased Aggregated Polls and Prediction Market Prices](#)

Chance. 2010. Vol. 23, No. 3, pp. 6-7.

2) [Simplifying Market Access: a New Confidence-Based Interface](#)

With Florian Teschner

The Journal of Prediction Markets. 2012. Vol. 6, No. 3, pp. 27-41.

- 3) A Combinatorial Prediction Market for the U.S. Elections_**
With Miroslav Dudik, Sebastien Lahaie, and David Pennock
Economics and Computation. 2013.
- 4) Lay understanding of probability distributions_**
With Daniel G. Goldstein
Judgment and Decision Making. 2014. Vol. 9, No. 1, pp. 1–14.
- 5) The Extent of Price Misalignment in Prediction Markets_**
With David Pennock
Algorithmic Finance. 2014. Vol. 3, pp. 3-20.
- 6) Combining forecasts for elections: Accurate, relevant, and timely_**
International Journal of Forecasting. 2015. Vol. 31, pp. 952-964.
- 7) Fundamental models for forecasting elections at the state level_**
With Patrick Hummel
Electoral Studies. 2014. Vol. 35, pp. 123-139.
- 8) Forecasting elections with non-representative polls_**
With Wei Wang, Andrew Gelman, and Sharad Goel
International Journal of Forecasting. 2015. Vol. 31, pp. 980-991.
- 9) Are Polls and Probabilities Self-Fulfilling Prophecies?_**
With Neil Malhotra
Research and Politics. 2014. July-September, pp. 1-10.
- 10) A comparison of forecasting methods: fundamentals, polling, prediction markets, and experts_**
With Deepak Pathak and Miroslav Dudik
The Journal of Prediction Markets. 2015. Vol. 9, No. 2, pp. 1-31.
- 11) The Mythical Swing Voter**
With Andrew Gelman, Sharad Goel, and Doug Rivers
Quarterly Journal of Political Science. 2016. Vol. 11, No. 1, pp 103-130.
- 12) Online and social media data as an imperfect continuous panel survey**
With Fernando Diaz, Michael Gamon, Jake Hofman, and Emre Kiciman.
PlosOne. 2016. 10.1371/journal.pone.0145406.
- 13) High-Frequency Polling with Non-Representative Data_**
With Andrew Gelman, Sharad Goel, and Wei Wang.
Political Communication in Real Time. 2017.
- 14) Manipulation in conditional decision markets**
With Florian Teschner and Henner Gimpel
Group Decision and Negotiation. 2017. (), 1-19
- 15) Trading Strategies and Market Microstructure: Evidence from a Prediction Market**
With Rajiv Sethi
Journal of Prediction Markets. 2016. Vol. 10, No. 1.
- 16) Forecasting Elections: Voter Intentions versus Expectations**
With Justin Wolfers (highly cited, but not yet published).

In the Academic Review Process

1) Mobile as Survey Mode

With Tobias Konitzer and Stephanie Eckman

2) [Disentangling Total Error, Bias, and Variance in Election Polls](#)

With Houshmand Shirani-Mehr, Sharad Goel, and Andrew Gelman. This Draft: April 10, 2016.

3) [Expertise in the Field Fades in the Lab](#)

With Etan Green and Justin Rao. This Draft: February 21, 2016.

4) [One Person, One Vote: Estimating the Prevalence of Double Voting in U.S. Presidential Elections](#)

With Sharad Goel, Marc Meredith, Michael Morse, and Houshmand Shirani-Mehr. This Draft: January 4, 2017.

5) [Using big data and algorithms to determine the effect of geographically targeted advertising on vote intention: Evidence from the 2012 US presidential election](#)

With Tobias Konitzer, Shawndra Hill, and Kenneth Wilbur.

6) [Decoupling and Contrasting Turnout and Sentiment in Electoral Change: Evidence from recent Congressional Elections](#)

With Tobias Konitzer, Sharad Goel, and Houshmand Shirani-Mehr.

7) [Geolocated Panel to study impacts of events on Twitter](#)

With Han Zhang and Shawndra Hill. This Draft: October 17, 2015.

8) [Non-Representative Surveys: Fast, Cheap, and Mostly Accurate](#)

With Sharad Goel and Adam Obeng. This Draft: November 1, 2015.

9) [Expectations: Point-Estimates, Probability Distributions, and Forecasts](#)

This Draft: September 20, 2012.

10) [Selection bias in documenting online conversations](#)

With Ran He. This Draft: March 20, 2016.

11) [A new way to think about confidence ranges](#)

With Daniel G. Goldstein and Florian Teschner

POPULAR WRITING

Blogger for *PredictWise* 2010-Present

Past Regular Blogging: *Huffington Post*, *Washington Post*, *MSNBC*, *Yahoo!*, *Wall Street Journal*

RESEARCH FUNDING

Carlos and Rosa de la Cruz PhD Fellowship: 2009-2010 and 2010-2011

Russell Ackoff Doctoral Student Fellowship Award: 2010

REFEREE

Public Opinion Quarterly, Quarterly Journal of Political Science, Social Science Quarterly, Management Science, Economics and Computation, Economic Inquiry, Journal of Economic Analysis & Policy, Policy and Internet, PC for MAGG, AAPOR Posters, SJDM Posters, PC for IJCAI, PC for QPOL, Southern Economic Journal, Mercatus Center

SEMINAR PRESENTATIONS

University of Pennsylvania's Wharton School, Nov 2010 • University of Kansas's Business School, Jan 2011 • Santa Clara University's Business School, Jan 2011 • eBay Research Lab, Jan 2011 • Queens College, Feb 2011 • Yahoo! Research, Feb 2011 • Drexel University's LeBow College of Business, Apr 2011 • University of Colorado's Leeds School of Business, Feb 2013 • Duke University, April 2013 • Fordham, October 2014 • Stanford's GSB, October 2014 • Santa Clara's Business School, October 2014 • University of Pennsylvania's Wharton School, February 2014 • University of Pennsylvania's Wharton School, October 2014 • New York University, December 2014

CONFERENCE PRESENTATIONS

Political Science/Public Opinion: APSA (American Political Science Association): 2010-2013 • MPSA (Midwestern Political Science): 2010-2017 • AAPOR (American Association for Public Opinion Research): 2010, 2012-2013, 2015-2017 • DC-AAPOR Workshop: 2010

Judgment and Decision Making (Marketing, Behavioral Economics, Psychology): SJDM (Judgment and Decision Making): 2012-2017 • BDRM (Behavioral Decision Research in Management)/SPUDM (Subjective Probability, Utility, and Decision Making): 2012-2016 • ACR (Association for Consumer Research): 2012-2013

Economics: NBER Market Design Workshop: 2012 • NBER Forecasting & Empirical Methods in Macro & Finance Workshop: 2012 • NBER Political Economy Workshop: 2011 • DAGGRE Workshop Keynote: 2012 • AEA (American Economic Association): 2013

Computer Science: EC (Economics and Computation): 2011, 2013, 2015 • AMMA Conference: 2011 • Invited Talk at NIPS: 2011 • AAAI Spring Symposium 2012 on Wisdom of the Crowd • PLEAD Workshop @ CIKM: 2012 • Collective Intelligence 2014

QUOTED IN POPULAR PRESS

New York Times, New York Magazine, NPR, Wall Street Journal, Time, PBS (NewsHour), Yahoo!, Huffington Post, Boston Globe, Bloomberg, Forbes, Wall Street Journal Radio, National Journal, CBS Radio, DCist, Tomorrow Magazine, CNET, GigaOM, IEEE Spectrum, Daily Beast, Daily Caller, The Verge, New Scientist, MIT Technology Review, Scientific American, ING, Boston Herald, Business Week, Reuters, Daily Kos, Fox News.com, Washington Times, G4TV, Popular Science, Techweek Europe, Xconomy, Daily News

PROFESSIONAL EXPERIENCE

President – DemStore – Washington, DC (January 2003 – June 2006)

Largest political materials consulting firm in USA: design, production, inventory, distribution and direct sales of materials – merchandizing for all major Democratic presidential campaigns in 2004

Materials Director – Tony Sanchez for Governor – Austin, TX (June 2002 – December 2002)

Civil Engineering Intern – Consolidated Edison – New York, NY (Summer 2001)

Opposition Research Intern – New York State Democratic Committee - New York City (Summer 2000)

White House Intern – White House - Washington D.C. (Summer 1999)

GENERAL EXPERIENCE / SKILLS

- *Computer Skills:* R, STATA, Matlab, CAD, Maple, some C, Illustrator
- *Outside Interests:* Golf, Squash, Surfing, Tennis, Rugby, Banjo, Chess, Backgammon