

## 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*, (2015-2017), 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. Vol. 26, No. 5, pp. 953-971.
- 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

### **12) [Polls and Prediction Markets: forecasting presidential primaries](#)**

With Giorgio Ravalli

### **13) [Irrational Expectations](#)**

With Etan Green and Justin Rao

## **POPULAR WRITING**

Blogger for *PredictWise* 2010-Present

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

## **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, etc.

## 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, Oct 2014 • Stanford's GSB, Oct 2014 • Santa Clara's Business School, Oct 2014 • University of Pennsylvania's Wharton School, Feb 2014 • University of Pennsylvania's Wharton School, Oct 2014 • New York University, Dec 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, 2017

*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, 2018

*Computer Science*: EC (Economics and Computation): 2011, 2013, 2015, 2017 • 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, etc.

## **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