

JAKE BOWERS

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Academic Appointments

Assistant Professor, Department of Political Science (August 2007–present)
Assistant Professor, Department of Statistics (Dec 2010–present)
Research Scientist, National Center for Supercomputer Applications (August 2007–present)
University of Illinois @ Urbana-Champaign

Research Affiliate, Center for American Political Studies, Harvard University (July 2007–present)

Scholar, Robert Wood Johnson Health Policy Scholars Program, Harvard University
(September 2005–July 2007)

Assistant Professor, Department of Political Science (September 2003–June 2007)
Faculty Associate, Center for Political Studies, Institute for Social Research (November 2003–present)
Faculty Affiliate, Quantitative Methodology Program, Institute for Social Research (Oct 2003–present)
University of Michigan

Assistant Research Scientist, Institute for Social Research (September 2002–August 2003)
University of Michigan

Degrees

Ph.D. Political Science, University of California, Berkeley, 2003.
M.A. Political Science, University of California, Berkeley, 1995.
B.A. Ethics, Politics and Economics, Yale University, 1992.

Theses

Ph.D. The Dynamics of Political Participation in the Lives of Ordinary Americans
Dissertation Committee: Henry Brady and Laura Stoker (chairs), Raymond Wolfinger,
David Brillinger

M.A. Violence and Discontent in Argentina, 1955–1972: A Time-Series and Intervention Analysis
(Advisor: Henry Brady)

B.A. Participation and Consolidation in Chile (Advisor: Juan Linz)

Honors

NSF Methodology, Measurement and Statistics grant for “Collaborative Research: Propensity Scores and Randomization-Based Inference, or Modeling Assignment to Treatment Conditions as Manifestly or Latently Random” (with Ben Hansen) (\$230,000) (5/2008–5/2011)

SSHRC grant for “Maps and ‘Pictures in Our Heads’: The Political Effects of Perceptions of Communities” (with Daniel Rubenson and Cara Wong) (\$74,000 CAD) (5/2011–5/2013)

Franklin L. Burdette/Pi Sigma Alpha prize for the best paper presented at the American Political Science Association national meetings in 2009 (with Ben Hansen).

Robert Wood Johnson Foundation, Health Policy Scholars Postdoctoral Fellowship, Harvard University (2005–2007).

Faculty Mentor Award Award for Excellence in Graduate Education (at the University of Illinois Department of Political Science) (2009–2010).

University of Illinois Library Data Purchase Award (with Cara Wong) (\$5000) (2011)
 Rackham Summer Faculty/Student Collaboration Grant (with Kate Gallagher) 2005 & 2006 (\$1500 × 2)
 Rackham Faculty Fellowship Enhancement Award 2005 (\$3000)
 Rackham Spring/Summer Research Grant 2005 (\$4000)
 Rackham Interdisciplinary Institute 2004–2005 Grant Recipient (with Cara Wong):
 \$30,000 for Pilot Study of Racial Context Perceptions and Assessments.
 National Election Study Pre-doctoral Fellowship 2001–2002.
 Best Poster Award, Political Methodology Summer Conference 2000.
 National Election Study, 1997 Pilot Study proposal accepted.
 National Science Foundation Graduate Fellowship, 1994–1995, 1996–1997, 1998–1999.
 Carolina Poll, Spring 1997, proposal accepted.

Publications

- “Six steps to a better relationship with your future self.” *The Political Methodologist*. 2011. 18(2):2–8.
- “Making Effects Manifest in Randomized Experiments.” in *Cambridge Handbook of Experimental Political Science*, eds. Druckman, J. N., Green, D. P., Kuklinski, J. H., and Lupia, A., New York, NY: Cambridge University Press. 2011. chap. 32.
- “Attributing Effects to A Cluster Randomized Get-Out-The-Vote Campaign.” (with Ben Hansen) *Journal of the American Statistical Association*. 2009. 104(487):873–885.
- “Politics across Generations: Family Transmission Reexamined.” (with Kent Jennings and Laura Stoker) *The Journal of Politics*. 2009. 71(3):782–799.
- “Covariate balance in simple, stratified and clustered comparative studies.” (with Ben Hansen) *Statistical Science*. 2008. 23(2):219–236.
- “Attributing Effects to A Cluster Randomized Get-Out-The-Vote Campaign.” (with Ben Hansen) University of Michigan, Dept of Statistics Technical Report # 448. October 2006.
- “EDA for HLM: Visualization when Probabilistic Inference Fails” (with Katherine Drake). *Political Analysis*. 2005. 13(4):301–326.
- “Analyzing the 2000 National Election Study” (with Nancy Burns, Michael Ensley, and Don Kinder). *Political Analysis*. 2005. 13(1):109–111.
- “Using R to Keep it Simple: Exploring Structure in Multilevel Datasets.” *The Political Methodologist*. Fall 2004.
- “Does Moving Disrupt Campaign Activity?” 2004. *Political Psychology*. 21(4):525–543.
- “Designing Multi-Level Studies: Sampling Voters and Electoral Contexts” (with Laura Stoker). 2002. *Electoral Studies*. 21(2):235–267 and Erratum in 21(3):535–536.
 Also appearing in *The Future of Election Studies*. 2002. Eds. Christopher Wlezien and Mark Franklin. Oxford:Pergamon Press.
- “Contextual Analysis and the NES” (with Laura Stoker). *The Political Psychologist*. August 1997.
- “Issues in Analyzing Data from the Dual-Mode 2000 American National Election Study” (with Michael Ensley). 2003. National Election Study Technical Report #64.
- “Black Threat and Christian Fundamentalist Threat: A National Election Study 1997 Pilot Study Report.” 1997. National Election Study 1997 Pilot Report.
- “NES Pilot Study Efforts to Measure Values and Predispositions.” 1995. National Election Study Technical Report #18.

Current Projects

- “Fisher’s randomization mode of statistical inference, then and now.” (with Costas Panagopoulos) R&R AJPS
- “Newspaper Advertisements and Voter Mobilization: Evidence from a Field Experiment.” (with Costas Panagopoulos) R&R *Political Behavior*
- “Bringing the Person Back In: Boundaries, Misperceptions, and the Measurement of Racial Context” (with Cara Wong, Tarah Williams, and Katherine Drake) R&R JOP
- “Reasoning about interference in randomized studies.” (with Mark Fredrickson and Costas Panagopoulos) Submitted.
- “The Shape of Political Participation.” In preparation.
- “Political Violence and Political Activity.” (with Mark Fredrickson) In preparation.
- Open-source Statistical Software*: “RItools: Randomization Inference Tools.” (with Ben Hansen and Mark Fredrickson). Ongoing and active development. Published on the Comprehensive R Archive Network (CRAN) since 2008. Current development at <https://github.com/markmfredrickson/RItools>.

Invited Presentations

- “Reasoning about Interference.” St. Louis Area Methodology Meetings, April 2012, Washington University, St. Louis, MO.
- “Reasoning about Interference.” Department of Political Science, March 2012, University of Wisconsin, Madison, WI.
- “Reasoning about Interference: Statistical Inference for Networks” Department of Statistics at the University of Illinois, January 2012. Urbana, IL
- “Introduction to Randomization Inference: Scientific Investigation via Hypothesis Testing.” Department of Psychology, Quantitative Psychology Weekly Seminar at the University of Illinois, September 2010. Urbana, IL
- “Randomization Inference: Scientific Investigation via Hypothesis Testing.” Department of Political Science, University of Maryland, College Park, MD. September 1, 2010
- “Randomization inference as a particularly reasonable basis for statistical inference.” Institute of Government and Public Affairs at the University of Illinois, April 2010. Urbana, IL.
- “Design-based Statistical Inference: Fisher (1935) and Neyman (1923) for 2010.” Annual Meeting of the American Sociological Association Methodology Section, April 2010. Urbana, IL.
- “The Shape of Political Participation: A plea for tolerance in matters empirical.” Department of Political Science, Northwestern University, Evanston, IL. November 12, 2009.
- “ ‘Probability of What?’: A Randomization-based Method for Hypothesis Tests and Confidence Intervals about Treatment Effects.” (with Costas Panagopoulos). Presented at the bi-annual Experiments in Governance and Politics (EGAP) meeting , October 2009. New York, NY.
- “Design as a Reasoned Basis for Statistical Inference”(with Ben Hansen, Costas Panagopoulos, Dan Carpenter, and Mark Fredrickson). Center for Political Studies Causality Conference at the University of Michigan, Ann Arbor, MI. June 5, 2009.
- “Randomization Inference for GOTV Campaigns: Causal Inference for a Cluster Randomized Get-Out-The-Vote Campaign” (with Ben Hansen). Nuffield Political Science Seminar at Nuffield College, Oxford, UK. Jan 29, 2008.

- “Drug Safety and Deadlines: An Application of Prognostic Scores, Propensity Scores, Full Matching and Permutation Inference to Regulatory Regime Change at the FDA” (with Dan Carpenter and Ben Hansen). Northeastern Political Methodology Conference at NYU, April 27, 2007.
- “How to Analyze Field Experiments Using Optimal Matching: The Case of the Vote Turnout Experiment” (with Ben Hansen). Department of Political Science at the University of Illinois at Urbana-Champaign, July 23, 2004.
- “A Theory of the Dynamics of Political Participation.” Political Psychology and Behavior Workshop at Harvard University, April 29, 2004.
- “Political Participation as a Dynamic Process.” The Second Minnesota Symposium in Political Psychology, November 8–9, 2002. Minneapolis.

Conference Papers and Presentations

- “Potential Outcomes Models for Networks and Spillover in Randomized Experiments.” To be presented at the annual Joint Statistical Meetings, July 2012. San Diego, CA.
- “Reasoning about Interference between Units.” To be presented at the annual meeting of the Midwestern Political Science Association, April 2012. Chicago, IL.
- “Ways of the Hand: Incarnation of Theory.” Presented at the annual meeting of the Midwestern Political Science Association, April 2011. Chicago, IL.
- “Reconciling Neyman and Fisher: Attributing Effects to A Cluster Randomized Get-Out-The-Vote Campaign”. (with Ben Hansen). Presented at the annual meeting of the American Political Science Association, August 2009. Toronto, Canada.
- “Tests of Covariate Balance in Experiments and Observational Studies” (presented by Ben Hansen). Presented at the Joint Statistical Meetings, August 2009, Washington, DC.
- “A Reasoned Basis for Inference: Randomization and Design Justifying Estimation and Testing ” (with Costas Panagopoulos). Presented at annual meeting of the Political Methodology Section of the American Political Science Association, July 2009. New Haven.
- “Threat, Mobilization, and Participation: The Impact of Crossburnings on Political Behavior in North Carolina.” (with Mark Fredrickson and Thomas Engstrom). Presented at the annual meeting of International Political Science Association, July 2009. Santiago, Chile.
- “Making Effects Manifest: How can we enhance the sensitivity of experiments using what we (think we) know?” Discussed at the Experimentation in Political Science conference, May 2009. Evanston.
- “RITools: Software for balance testing using randomization inference.” Poster presented at annual meeting of the Political Methodology Section of the American Political Science Association, July 2008. Ann Arbor.
- “Randomization Inference tools” (with Ben Hansen). Presentation to the The Quantitative Methodology Program of the Survey Research Center of the Institute for Social Research at the University of Michigan. April 11, 2008. Ann Arbor.
- “Causal Inference About A Regulatory Regime Change at the FDA” (with Dan Carpenter and Ben Hansen). Presentation at the annual meeting of the Robert Wood Johnson Health Policy Scholars, Aspen, CO. June 2007.
- “The effect of The Prescription Drug User Fee Act(s) (PDUFA) on Drug Safety Causal Inference for A Policy Change.” (with Dan Carpenter, Ben Hansen, and Evan Zucker) Presentation to the Robert Wood Johnson Workshop, March 2007.

- “The Crisis of Birth: Do Babies Pull Women Out of the Public Sphere While Pushing Men Back In.” (with Katherine Gallagher) Presentation to the Center for Political Studies, University of Michigan, October 2006.
- “Fixing Broken Experiments: A Proposal to Bolster the Case for Ignorability Using Subclassification and Full Matching.” (with Ben Hansen) Presented to the Applied Statistics Workshop, Harvard University, Cambridge, MA. Sep 2006.
- “Rltools: Randomization Inference Tools.” (with Ben Hansen). Presentation at the international meeting of R users. Medical and Applied Statistics Section. Vienna, Austria. June 2006.
- “Rltools and Optmatch: Tools for the Analysis of Observational Studies (À la Rosenbaum 2002).” (with Ben Hansen). Poster presentation at the international meeting of the R users. Medical and Applied Statistics Section. Vienna, Austria. June 2006.
- “Drug Safety and the Prescription Drug User Fee Act of 1992.” (with Dan Carpenter and Evan Zucker) Presentation at the annual meeting of the Robert Wood Johnson Health Policy Scholars, Aspen, CO. June 2006
- “The Effect of FDA Deadlines on Drug Safety?: A proposal for and questions about measurement, design, and analysis in 10 slides.” (with Dan Carpenter and Evan Zucker) Presentation to the Robert Wood Johnson Workshop, May 2006.
- “GOTV: A Civic Good? Or a Civic Bad?” (with Ben Hansen) Presented at the annual meeting of the Midwestern Political Science Association, Chicago, IL. April 2006.
- “Randomization Inference for Health Policy Evaluation.” Presentation to the Robert Wood Johnson Health Policy Workshop. Feb 2006.
- “The Distributional Effects of Get-Out-The-Vote Efforts.” Presentation to the Center for Political Studies, University of Michigan, March 2006.
- “Simple Heuristics and Approaches for Experimental Data.” Presentation to the CPS Workshop, October 2005.
- “Randomization Inference for Experiments” (with Ben Hansen). Presented at the annual meeting of the American Political Science Association, September 2005. Washington D.C.
- “Attributing Effects to A Cluster Randomized Get-Out-The-Vote Campaign: An Application of Randomization Inference Using Full Matching” (with Ben Hansen). Presented at annual meeting of the Political Methodology Section of the American Political Science Association, July 2005. Tallahassee.
- “Keep it simple social scientist! or How randomization inference helped me attribute effects to get-out-the-vote efforts.” Presentation to the NES Workshop, April 2005.
- “Attributing Effects to a Get-Out-The-Vote Campaign Using Full Matching and Randomization Inference” (with Ben Hansen). Presented at the annual meeting of the Midwest Political Science Association, April 2005. Chicago.
- “EDA for HLM” (with Katherine Drake). Presented at the annual meeting of the Midwest Political Science Association, April 2005. Chicago.
- “Maps and Pictures in Our Heads: Testing the Assumptions of Power Threat Theory” (with Katherine Drake and Cara Wong). Presented at the annual meeting of the Midwest Political Science Association, April 2005. Chicago.
- “Do Low Resources Necessarily Mean Low Political Participation?” Presentation to the The Quantitative Methodology Program of the Survey Research Center of the Institute for Social Research at the University of Michigan. September 28, 2004. Ann Arbor.

- “Research Design for The Precipitants of Political Activity.” Presentation to the NES Workshop, September 2004. Ann Arbor.
- “Flexible, optimal matching for the comparison of two groups (in an experiment with imperfect compliance, imperfect randomization, and multiple treatments)” (presented by Ben Hansen). Presented at the annual meeting of the Royal Statistical Society, September 2004. Manchester, UK.
- “Polling and Prediction: A Reexamination of the 1936 Literary Digest Poll” (with Adam Berinsky). Presented at the annual meeting of the American Political Science Association, September 2003. Philadelphia.
- “Pragmatic Sample Design for Detecting Contextual Effects: Assessing the Power Threat Theory of Race Relations” (with Cara Wong). Presentation to the The Quantitative Methodology Program of the Survey Research Center of the Institute for Social Research at the University of Michigan. March 18, 2003. Ann Arbor.
- “Cycling Involvements: Exploring the Periodicity in Political Participation.” Poster presented at the annual meeting of the American Political Science Association, September 2001. San Francisco.
- “Participation Transitions, Rates and Memories.” Presentation to the NES Workshop, May 2001. Ann Arbor.
- “Dynamics of Individual Participation.” Presentation to the NES Workshop, October 2000. Ann Arbor.
- “Sample Design for Studying Congressional Elections.” Poster presented at the annual meeting of the Political Methodology Section of the American Political Science Association, July 2000. Los Angeles.
- “Politics Across Generations” (with M. Kent Jennings and Laura Stoker). Presented at the annual meeting of the American Political Science Association, September 1999. Atlanta.
- “Movement in the Body Politic: Exploring Dynamic Representations of Political Participation.” Poster presented at the annual meeting of the Political Methodology Section of the American Political Science Association, July 1999. San Diego.
- “Measuring Perceptions of Black Threat: An Individual Level Test of the Power Threat Hypothesis.” Presented at the annual meeting of the American Political Science Association, August 1998. Boston.
- “Crossburnings and Black Officials in North Carolina: A Multi-Level Model of Threat, Mobilization, and Participation.” Poster presented at the annual meeting of the Political Methodology Section of the American Political Science Association, July 1998. San Diego.
- “Black Threat and Black Context: New Evidence From the 1997 NES Pilot Study.” Presented at the annual meeting of the International Society of Political Psychology, July 1998. Montreal, Canada.
- “Meaning and Measures: A Validity Test of Symbolic Racism” (with Cara Wong). Presented at the Annual Meeting of the Midwest Political Science Association, April 1997. Chicago.
- “Threat, Mobilization, and Participation: The Impact of Crossburnings on Political Behavior in North Carolina.” Presented at the Annual Meeting of the American Political Science Association, August 1997. Washington, D.C.
- “Threat, Mobilization, and Participation: The Impact of Crossburnings on Vote Turnout in North Carolina.” Presented at the Annual Meeting of the International Society of Political Psychology, July 1996. Vancouver, BC, Canada.

Teaching Experience

Assistant Professor, University of Illinois @ Urbana-Champaign

- Statistical Inference and Linear Models (Graduate) 2010–2012
- Introduction to Statistics for Political Research (Undergraduate) 2009–2011

- Future Politics [Science Fiction and Political Theory] (Undergraduate) 2009–2011
- Quantitative Political Analysis II (Graduate) 2007
- Potential Outcomes Framework for Causal Inference and Matching for Adjustment (iTV Graduate) 2007, 2011

Assistant Professor, University of Michigan

- Statistical Methods for Political Research (Graduate), 2003 & 2004.
- Advanced Topics in Statistical Inference: Bayesian and Robust Approaches (Graduate), 2005.
- Political Participation (Undergraduate), 2003 & 2005.
- Research Design and Data Analysis for Political Science (Undergraduate), 2004.

Teaching Assistant, University of California, Berkeley

- The Logic and Methods of Cross-Sectional Time-Series and Panel Analysis (Graduate), with Henry Brady, 1999.
- Psychometric and Econometric Methods (Graduate), with Henry Brady, 1997.
- Quantitative Analysis in Political Research (Graduate), with Laura Stoker, 1997.
- Political Psychology and Involvement (Undergraduate), with Jack Citrin, 1996.
- Introduction to Empirical Analysis and Quantitative Methods (Undergraduate), with Robert Powell, 1995.
- (Group Tutor) Conceptualization, Measurement and Causal Thinking (Graduate), with Henry Brady and David Collier, 1998.

Advising and Service

Dissertation committee memberships

- Gisela Sin, University of Michigan (Currently at Asst. Prof at University of Illinois), Ph.D 2007
- Gennady Rudkevich, University of Illinois, ABD
- Konstantinos Travlos, University of Illinois, ABD

Departmental Service (University of Illinois)

- Alumni Affairs Committee, 2008–2009
- Awards Committee 2010–2011
- Ad-hoc Graduate Computing Lab Committee, 2009–2010
- Co-founded the Faculty-Student Working Paper Seminar Series (2009–present) (with Jose Cheibub, Jim Kuklinski, and Cara Wong).
- Co-manage the Methodology Speaker series (2007–present) (with Wendy Tam Cho).

Departmental Service (University of Michigan)

- Admissions Committee, 2003–2004
- Methodology Search Committee, 2004–2005
- Information Technology Taskforce Member and co-Founder, 2004–2005

Disciplinary Service

- Society for Political Methodology — Political Methodology Career Award Committee 2009–2011
- Society for Political Methodology — Program committee for the annual meeting, 2007

Professional Activities

Editor (with Brian Gaines and Wendy Tam Cho) of *The Political Methodologist*, August 2010–present.

Reviewer for the *American Political Science Review*, the *Journal of the American Statistical Association*, the *American Journal of Political Science*, *Political Analysis*, *The Journal of Politics*, *The National Science Foundation*, *Journal of Educational and Behavioral Statistics*, *Sociological Methods and Research*, *Sociological Methodology*, *Perspectives*, *Public Opinion Quarterly*, *Political Psychology*, *Political Behavior*, *Electoral Studies*, *American Politics Research*, *PS: Political Science & Politics*, *Statistics, Politics, and Policy*, *International Interactions*.

Discussant at APSA, MPSA annually. Invited Discussant at the Political Methodology Summer Conference, July 2007 & 2008 & 2009 & 2011 and the MIT Political Inequality Conference, September 2006.

Member of the American Political Science Association (Political Methodology; Qualitative Methods; Foundations and Political Thought; Political Psychology; Elections, Public Opinion and Voting Behaviour; Race, Ethnicity, and Politics; Experimental Research), the Midwestern Political Science Association, the Southern Political Science Association, and the American Statistical Association.

Member of the Experiments in Governance and Politics (EGAP) research network (<http://e-gap.org>).

Previous Research Experience

1995–2000 Research Assistant for Laura Stoker and M. Kent Jennings on The Youth-Parent Political Socialization Project, Wave 4

1996 Statistical and Design Consultant for *The Daily Californian*, UC-Berkeley.

1995 Statistical Consultant for McKinsey Consulting, Inc. and Kaiser Foundation Health Plan Inc., Hawaii Region.

1992–1994 Market Research Analyst for Kaiser Foundation Health Plan, Inc., Program Offices.
Designed survey instruments, administered field work, analyzed data, wrote reports, presented results to decision makers.

Languages and Other Skills

Languages: Spanish(fluent but not native); Portuguese(fair)

Ph.D. Comprehensive Fields

Political Methodology, American Politics, Political Behavior, Political Theory

References

References available upon request.