

JAMES HONAKER

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Education

2004 **Harvard University**, PhD, Department of Government.
1997 **Caltech**, BS, Social Science.

Positions

2016–Present Research Associate, **Center for Research on Computation and Society**,
Harvard University
2012–16 Senior Research Scientist, **Institute for Quantitative Social Science**,
Harvard University
2009–12 Lecturer, **Pennsylvania State University**
2004–09 Assistant Professor, **UCLA**.
2001–04 Acting Assistant Professor, **UCLA**.

Publications

- Forthcoming* Blackwell, Matthew, James Honaker and Gary King. “A Unified Approach to Measurement Error and Missing Data: Overview and Applications” *Sociological Methods and Research*.
- Forthcoming* Blackwell, Matthew, James Honaker and Gary King. “A Unified Approach to Measurement Error and Missing Data: Details and Extensions” *Sociological Methods and Research*.
- 2015 Crosas, Mercè, Gary King, James Honaker and Latanya Sweeney “Automating Open Science for Big Data” *Annals of the American Academy of Political and Social Science*. 659(1): 260–273.
- 2014 Honaker, James and Vito D’Orazio. “Statistical Modeling by Gesture: A graphical, browser-based statistical interface for data repositories” *Extended Proceedings of ACM Hypertext 2014*.
- 2011 Honaker, James, Gary King and Matthew Blackwell. “Amelia II: A Program for Missing Data.” *Journal of Statistical Software* 45(7): 1-47.
- 2010 Honaker, James and Gary King. “What to do About Missing Values in Time-Series Cross-Section Data.” *American Journal of Political Science* 54(2): 561-581.
- 2008 Frisina, Laurin, Michael Herron, James Honaker and Jeffrey B. Lewis. “Ballot Formats, Touchscreens, and Undervotes: A Study of the 2006 Midterm Elections in Florida.” *Election Law Journal* 7(1):25-47.
- 2002 Honaker, James, Jonathan Katz and Gary King. “A Fast, Easy, and Efficient Estimator for Multiparty Electoral Data” *Political Analysis* 10(1):84-100.
- 2001 King, Gary, James Honaker, Anne Joseph and Kenneth Scheve. “Analyzing

Incomplete Political Science Data: An Alternative Algorithm for Multiple Imputation" *American Political Science Review* 95(1):49-69.

Statistical Software

2015-2016 *PSI (Ψ): A Private data Sharing Interface* (with Privacy Tools Group) This prototype system will allow researchers with sensitive datasets to make differentially private statistics about their data available through data repositories using the Dataverse platform.

<https://privacytools.seas.harvard.edu/psi>

2014-2016 *TwoRavens* (with Vito D'Orazio) A gesture-driven, browser based, thin-client interface for conducting statistical analysis on datasets in archives and repositories and differentially private secure data.

<http://2ra.vn>

2014-2016 *Zelig (version5)* (with Christine Choirat, Christopher Gandrud, Kosuke Imai, Gary King and Olivia Lau) A library for statistical inference in R that provides access to dozens of statistical models through a common call structure, with utilities for simplified model interpretation. Also wrote the related modules *ZeligChoice* and *ZeligEI*.

<http://zeligproject.org>

2005-2012 *AmeliaII: A Program for Missing Data* (with Matthew Blackwell and Gary King) Winner of the 2014 Best Statistical Software Award of the Society for Political Methodology.

<http://gking.harvard.edu/amelia>

1998-2004 *Amelia: A Program for Missing Data* (with Anne Joseph, Gary King and Ken Scheve)

Also, contributor/maintainer to *Zelig(v4)*, *ei*, *Consilience*, *ReadMe*, *WhatIf*, *cem*.

Working Manuscript

2008 "The Ecology of Preference" Presented at the Institute for Mathematical Behavioral Science, Irvine, November 2005.

Working Papers

2016 "PSI (Ψ): A Private data Sharing Interface" (With Marco Gaboardi, Gary King, Jack Murtagh, Kobbi Nissim, Jonathan Ullman, Salil Vadhan) Presented at Theory and Practice of Differential Privacy 2016, New York, June 2016.

2015 "Differential Privacy for Social Science Inference" (With Vito D'Orazio, Gary King) Presented at Summer Meetings of the Society for Political Methodology, Rochester, July 2015.

2015 Honaker, James. "Efficient Use of Differentially Private Binary Trees." Presented at TPDP 2015 - Theory and Practice of Differential Privacy, London, April 2015.

2014 Honaker, James. "Unemployment and Violence in Northern Ireland: a missing

data model for ecological inference." Presented at the Summer Meetings of the Society for Political Methodology, Tallahassee, July 2005.

2014 "The Structure of Autocratic Rule." (With Barbara Geddes, Joseph Wright) Presented at the European Political Science Association Annual Meeting, Barcelona, June 2013. Annual Meetings of the American Political Science Association, Washington D. C., August 2014.

2013 "Sorting Algorithms for Qualitative Data to Recover Latent Dimensions with Crowdsourced Judgments: Measuring State Policies for Welfare Eligibility under TANF" Presented at the Summer Meetings of the Society for Political Methodology, Charlotte, July 2011.

2011 "Learning Vectors for Case Study Analysis." Presented at the Summer Meetings of the Society for Political Methodology, Princeton, July 2011.

2011 "Small Area Estimation from Multiple Overimputation." (With Eric Plutzer) Presented at MPSA, Chicago, March 2011.

2008 "Measuring Metaphor: A quantitative approach to judging the similarity of mental models in unstructured interviews." Presented at Annual Meetings of the American Political Science Association, Boston, August 2008.

Grants

2017-2021 DARPA, "D3M: TwoRavens: Intuitive Statistical Exploration, Model Extraction, and Curation" (\$1,700,000; PI with Co-PI Vito D'Orazio)

2016-2020 National Science Foundation, "TWC: Large: Collaborative: Computing Over Distributed Sensitive Data" (\$1,700,000; co-PI with Kobbi Nissim, Marco Gaboardi, Steven Chong and Salil Vadhan; CNS-1565387)

2015-2017 Sloan Foundation, "Applying Theoretical Advances in Privacy to Computational Social Science Practice" (\$868,954 (\$175,000 to IQSS): author and senior investigator; PIs Micah Altman and Salil Vadhan)

2012-2015 Minerva Research Initiative, "Regional Dynamics and Regime Disruption in Dictatorships" (\$412,000; co-PI with Joseph Wright)

2011-2014 National Science Foundation, "Multi-Level Policy Responsiveness to Public Opinion" (\$291,210; co-PI with Eric Plutzer and Michael Berkman; SES-1059723)

Invited Talks

"PSI (Ψ): A Private data Sharing Interface" Dataverse Community Meeting, Harvard Medical School, Boston 2016;

"Introduction to Multiple Imputation for Missing Data Problems" Pew Foundation, Washington DC 2016;

"Multiple Imputation Approaches to Missingness and Mismeasurement in Panel Studies" Food and Drug Administration (FDA), Silver Spring 2015;

"Missing Data" Harvard Graduate School of Education, 2014;

"Sorting Algorithms for Qualitative Data to Recover Latent Dimensions with Crowdsourced Judgements" Applied Statistics Workshop, Harvard 2014;

"The Promise of Computational Methods and Big Data" Hertie School of Gov-

ernance, Berlin 2013;
"Imputation and Overimputation" MIT Guest Lecture 2013;
"Mechanical Turk for Text Annotation and Judgment Tasks" Quantitative Social Science Initiative, Penn State, 2012;
"Multiple Imputation and Overimputation" Applied Quantitative Methods Workshop, Northwestern University, 2011;
"Unemployment and Violence in Northern Ireland: A Missing Data Model for Ecological Inference" Quantitative Social Science Initiative, Penn State, 2010;
"The Ecology of Preference" Institute for Mathematical Behavioral Science, UC Irvine, 2005.

Teaching Experience

Penn State University:

GRADUATE COURSES

Maximum Likelihood Models
Machine Learning and Robust Model Estimation
Time-Series Cross-Sectional Methods
Mathematical Methods for Political Science

UNDERGRADUATE COURSES

Introduction to Quantitative Analysis
Studies in the Statistical Analysis of Political Data: Political Violence

University of California, Los Angeles:

GRADUATE COURSES

Maximum Likelihood Models
Quantitative Tools for Comparative Politics
Evolutionary Game Theory
Time-Series Cross-Sectional Methods

UNDERGRADUATE COURSES

Introduction to Quantitative Analysis
Studies in the Statistical Analysis of Political Data: Political Violence
Game Theoretic Models in International Relations: Tournaments and Evolution.

American Political Science Association Annual Meeting, Atlanta, 1999.

Short Course Instructor, "What to Do About Missing Data?"

Harvard University, Cambridge, Massachusetts, 1998.

Teaching Fellow in Graduate Statistics and Graduate Game Theory.

Thesis Committees (and initial position)

Lisa Blaydes (Stanford University)
Vito D'Orazio (The University of Texas at Dallas)
Kim George (Texas A & M)
Julia Gray (University of Pittsburg)
Drew Linzer (Emory University)
Rob Salmond (Michigan University)
Jaekwon Suh (Truman State University)
Stan Hok-Wui Wong (Chinese University of Hong Kong)
James Yonamine (Allstate)