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EDUCATION

- Ph.D., Political Science, Harvard University, 1998
 - A.M., Political Science, Harvard University, 1996
 - A.L.M., History, Harvard University, 1993
 - M.S., Operations Research & Statistics, Rensselaer Polytechnic Institute, 1990
 - B.S., Computer & Systems Engineering, Rensselaer Polytechnic Institute, 1988
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EMPLOYMENT

- **Associate Professor** Jul 2004–Present
Department of Political Science, University of Rochester, Rochester, NY
- **Assistant Professor** Jul 1998–Jun 2004
Department of Political Science, University of Rochester, Rochester, NY
- **Instructor** Jul 1997–Jun 1998
Department of Political Science, University of Rochester, Rochester, NY
- **Lecturer: Math for Political Scientists** Sep 1996, 1997
Department of Government, Harvard University, Cambridge, MA
- **Teaching Fellow: Introduction to International Conflict & Cooperation**
Core Office and Department of Government, Harvard University, Cambridge, MA Feb–Jun 1996
Professors: Steve Rosen and Andy Moravcsik
- **Senior Thesis Advisor** 1996, 1997
Department of Government, Harvard University, Cambridge, MA
- **Teaching Fellow: Advanced Quantitative Methodology** Sep 1995–Jan 1996
Department of Government, Harvard University, Cambridge, MA
Professors: Gary King and Brad Palmquist
- **Research Assistant** Oct 92–Sep 95
Department of Government, Harvard University, Cambridge, MA
Professor: Gary King
- **Project Manager: Theater Warfare Modeling & Simulation** Mar 1992–Sep 1993
Adv. Plans & Programs: Modeling, Analysis, & Simulation Center, Hanscom AFB, MA

- **Project Manager: Computer & Network Security Engineering** Jul 1989–Feb 1992
Air Force Intelligence Command, Operating Location MC, Hanscom AFB, MA
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GRANTS & AWARDS

- Program in Empirical Policy Research (PEPR) Grants
 - 2011. “R Package for Flexible Functional Form Estimation” (Brenton Kenkel). \$2,000.
 - 2010. “R Code for Estimating Extensive-Form Games” (Brenton Kenkel). \$2,000.
 - 2009. “Estimation of Crisis Signaling Models” (Jinhee Jo). \$1,500.
 - 2009. Warren Miller Prize for Best Article in *Political Analysis*.
 - 2004. G. Graydon and Jane W. Curtis Award for Excellence in Teaching
 - 2004. Outstanding Teaching in Political Science. American Political Science Association.
 - National Science Foundation Research Grants
 - 2004. “The Statistical Analysis of Bargaining” (with Kris Ramsay). \$200,000.
 - 2002. “Discriminating Methods: Nonnested Tests for Strategic Choice Models” (with Kevin Clarke). \$175,000.
 - 1999. “Statistics Out on a Limb?: Strategic Interaction and the Statistical Analysis of International Conflict.” \$149,995.
 - 2000. Gosnell Prize for Best Conference Paper in Political Methodology
 - 1998. Gosnell Prize Honorable Mention
 - 1996. Mellon Dissertation Research Grant
 - 1993–1996. Harvard Graduate School of Arts & Sciences Grant
 - 1995. Hoover Institute Summer Program in International Politics
 - 1993–1994. Atherton Fellow in International Relations, Harvard University
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PUBLICATIONS

Google Scholar Citations

- “Estimating Extensive Form Games in R” (2013) with Brenton Kenkel. *Journal of Statistical Software*. 2
- “Knowing One’s Future Preferences: A Correlated Agent Model with Bayesian Updating” (2013) with Muhammet Bas and Taehee Whang. *Journal of Theoretical Politics*. 1
- “Reply to Neal Beck” (2010) with David Carter. *Political Analysis*. 18(3):295-296.
- “Back to the Future: Modeling Time Dependence in Binary Data” (2010) with David Carter. *Political Analysis*. 18(3):271-292. 492
Currently 5th most cited article in *Political Analysis*. Selected for *Political Analysis* virtual issue on “Advances in Discrete Choice Methods.” Recently made publicly available as one of *Political Analysis*’ top cited articles.

- “Discriminating Methods: Tests for Nonnested Discrete Choice Models” (2010) with Kevin Clarke. *Political Studies*. UK. 58:368-388 19
- “Statistical Backwards Induction: A Simple Method for Estimating Recursive Strategic Models” (2008) with Muhammet Bas & Robert Walker. *Political Analysis*. 16(1):21-40. 50
Awarded 2009 Miller Prize for the best article published in *Political Analysis*.
- “On Formal Theory and Statistical Methods: A Response to Carrubba, Yuen, & Zorn.” (2007) *Political Analysis*. 15(4):483-501. 14
- “A Unified Theory and Test of Extended Immediate Deterrence” (2006) with Ahmer Tarar. *American Journal of Political Science*. 50(July). 91
- “Structure and Uncertainty in Discrete Choice Models.” (2003) *Political Analysis*. 11(4). 111
Selected for *Political Analysis* virtual issue on “Advances in Discrete Choice Methods.”
- “Strategic Misspecification in Regression Models” (2003) with Kuzey Yilmaz. *American Journal of Political Science*. 47(3):551-566. 103
Awarded 2000 Gosnell Prize for the best paper in methodology presented at a conference that year.
- “Strategy and Selection in International Relations.” (2002) *International Interactions*. March, 28:93-115. 69
- “Aggregation Among Binary, Count, and Duration Models: Estimating the Same Quantities from Different Levels of Data” (2001) with James E. Alt and Gary King. *Political Analysis*. 9(1):21-44. 70
- “Strategic Interaction and the Statistical Analysis of International Conflict.” (1999) *American Political Science Review*. 93(2):279-98. 361
1998 Gosnell Prize Honorable Mention for best paper in methodology presented at a conference.
- “Tau-b or Not Tau-b: Measuring the Similarity of Foreign Policy Positions” (1999) with Jeffrey M. Ritter. *International Studies Quarterly*. 43(1):115-144. 437
- “Simulating International Cooperation under Uncertainty: The Effects of Symmetric and Asymmetric Noise.” (1996) *Journal of Conflict Resolution* 40(1):152-205. 25
- “The Generalization in the Generalized Event Count Model, with Comments on Achen, Amato, and Londregan” (1996) with Gary King. *Political Analysis* 6:225-252. 14
- “A Correction for an Underdispersed Event Count Probability Distribution” (1995) with Rainer Winkelmann & Gary King. *Political Analysis* 5:215-28. 12

WORK IN REVIEW OR IN PROGRESS

- “Separation in Strategic Choice Models”
with Casey Crisman-Cox.
- “A Comparison of Machine Learning Techniques for Modeling Survey Nonresponse”
with Antje Kirchner. Presented at the IAB Colloquium on Labour Market and Occupational Research, Institute for Employment Research, Nuremberg, Germany.
- “Good Times, Bad Times: Left-Censoring in Grouped Binary Duration Data”
with David Carter. Presented at the 2012 annual meetings of the European Political Science Association, Midwest Political Science Association, and the Network of European Peace Scientists, the 2013 meeting of the International Studies Association, and at the University of St. Gallen Political Science and Democratic Governance seminar series.
- “Data Mining for Theorists”
with Brenton Kenkel. Presented at the 2011 annual meetings of the European Consortium for Political Research, European Political Science Association, the Political Methodology Society; at the 2012 annual meeting of the Midwest Political Science Association; at the 2013 meeting of the international studies association. Also presented as a faculty seminar at the University of Essex Summer Program 2011 and at the University of Warwick 2013.
- “A Second-Best Solution to the Heckman Selection Problem: Selection Bias as Functional Form Misspecification”
with Brenton Kenkel. Presented at the 2012 annual meetings of the European Political Science Association, the Midwest Political Science Association, and the Political Methodology Society.
- “Aggregation Bias in Measures of Democracy”
with Jonathan Olmsted and Jun Xiang. Paper presented at the 2010 annual meetings of the American Political Science Association, Midwest Political Science Association, and the Peace Science Society, the 2011 meeting of the European Political Science Association, and in seminars at Princeton University, Rice, and Texas A&M University.
- “A Method for Flexible Functional Form Estimation: Bootstrapped Basis Regression with Variable Selection”
with Brenton Kenkel.
- “A Statistical Model of the Ultimatum Game” with Kris Ramsay. In review.

SOFTWARE DEVELOPMENT

- **polywog** package for R
with Brenton Kenkel. Implements flexible functional form estimation using bootstrapped variable selection (e.g., adaptive lasso or SCAD) applied to basis vectors (e.g., polynomials or splines).

- **games** package for R

with Brenton Kenkel. Similar to STRAT below, but as a package for R. It includes new models, such as the ultimatum game, as well as likelihood profiling.

- **STRAT**

STRAT is a stand-alone program that allows users to estimate regression models for a number of common extensive form games. The user may select whether model uncertainty is due to agent error or private information. The program includes options for graphing and interpreting results.

- **S**

Gauss procedure to calculate the policy position similarity measure in Signorino & Ritter (1999).

INVITED SEMINARS, WORKSHOPS, SMALL CONFERENCES

- 2014. Institute for Employment Research, Nuremberg, Germany. IAB Colloquium.
- 2014. University of St. Gallen, Switzerland. Department of Political Science.
- 2014. Forecasting International Events Workshop. ISA Toronto.
- 2013. Duke University. Workshop on Improving IR Models for Policymakers.
- 2013. University of Warwick, UK. Department of Economics.
- 2013. Networks and Interdependence Workshop. ISA San Francisco.
- 2011. Bilkent University. Workshop on Event Data Analysis. Held in Istanbul, Turkey.
- 2011. University of Essex, UK. Department of Politics.
- 2010. Emory University. Directions in Political Methodology.
- 2010. Rice University. Department of Political Science.
- 2009. Princeton University. Department of Politics.
- 2009. Texas A&M University. Department of Political Science.
- 2008. Oxford University, UK. Workshop on Dialogue and Innovation in Political Science.
- 2006. University of California, Berkeley. Department of Political Science.
- 2006. University of Minnesota. Department of Political Science.
- 2004. Washington University, St. Louis. EITM Guest Speaker.
- 2004. Duke University. Department of Political Science.
- 2004. Binghamton University. Conference on Selection in IR.
- 2001. Harvard University. Department of Government.
- 2001. University of Wisconsin, Madison. Department of Political Science.
- 2001. University of California, San Diego. Torrey Pines Workshop.
- 2001. University of California, Riverside. SCAMP.
- 2000. University of California, San Diego. Workshop on Research Frontiers in IR.
- 2000. Yale University. Department of Political Science.
- 2000. Emory University. Department of Political Science.
- 1999. New York University. Department of Politics.
- 1999. Pennsylvania State University. Department of Political Science.
- 1999. Ohio State University. Department of Political Science.

- 1999. Binghamton University. Binghamton, Cornell, Illinois Seminar in IR.
- 1998. Stanford University. Graduate School of Business.
- 1998. California Institute of Technology. Department of Social Sciences.
- 1998. University of Michigan. Department of Political Science.
- 1998. Duke University. Department of Political Science. Workshop on Models in IR.
- 1997. Yale University. Department of Political Science.
- 1997. University of Rochester. Department of Political Science.

COURSES TAUGHT

(G)raduate, (U)ndergraduate
 * New course in curriculum

University of Rochester

- Statistical Methods
 - Applied Data Analysis (U)
 - Introductory Statistical Methods (U)
 - Probability and Inference (G)
 - Linear Models (G)
 - Maximum Likelihood Estimation (G)
 - Advanced Topics in Political Methodology (G*)
 - Estimating Games & Testing Formal Models (G*)
 - Quantitative Approaches to International Politics (G*)
 - Math for Political Scientists (G)
- International Relations
 - Theories of International Relations (U)
 - International Conflict History and Theory (G*)
 - Modeling International Conflict (G*)

Empirical Implications of Theoretical Models (EITM)

- International Relations Week (with Jim Morrow), Michigan, Summer 2003
- Random Utility Models & Strategic Choice, WashU, Summer 2005–2007
- Random Utility Models & Strategic Choice, UC Berkeley, Summer 2010
- Mixed Methods (with Scott de Marchi & Dustin Tingley), Duke, Summer 2014

University of Essex Summer Program in Quantitative Methods

- Selection and Strategic Models, 2011, 2012, 2013

EITM Europe: Mannheim, Germany

- Selection and Strategic Models, 2013

DEPARTMENTAL AND UNIVERSITY SERVICE

- Founder and Director of the Theory and Statistics Research Lab (the star lab), 2004–present
www.rochester.edu/college/psc/thestarlab
- Director, Peter D. Watson Center for Conflict and Cooperation, 1999–2005
www.watson.rochester.edu
- Director of Graduate Placement, 2003–2006, 2012–2013
- Developed initial version of department’s “Honest Grad Numbers”, 2013
- University Research Computing Committee, 2006, 2010–present.
- Graduate Admissions Committee, 2011
- Undergraduate Advisor, 2007, 2010–2011, 2012–2014.
- Chair of College’s Social Sciences Working Group, 2005–2006
- College Faculty Council, 2000–2001, 2002–2003, 2009–2011.
- Cofounder of department’s “Math Prefresher” for incoming graduate students, 2000
- Cofounder and co-coordinator of “Riker Seminar” series, 1998–2000
- Chair and member of departmental job search committees, 1999–present
- Political Science dissertation advisor, 1999–present
- Economics dissertation advisor, 1999–2002
- Simon School of Business dissertation advisor, 2014

SERVICE TO DISCIPLINE

- Chair, Society for Political Methodology 2015 Annual Conference Host Committee
- Co-coordinator, 2014 ISA Working Group (with Jeff Arnold) on “Forecasting International Events”
- Career Achievement Committee, Society for Political Methodology, 2012–2014
- Williams Prize Committee, Society for Political Methodology, 2014
- Chair, Software Award Committee, Society for Political Methodology, 2011–2012
- Chair, Annual Meeting Program Committee (Michigan), Society for Political Methodology, 2008
- Graduate Student Poster Award Committee, Society for Political Methodology, 2008
- National Science Foundation Review Panel
- Editorial Board, *American Journal of Political Science*, 2013–present
- Editorial Board, *Political Science Research & Methods*, 2012–present
- Editorial Board, *American Political Science Review*, 2008–2012
- Editorial Board, *Political Analysis*, 2008–2009

REVIEWER FOR

American Journal of Political Science
American Political Science Review
Conflict Management & Peace Science
European Union Politics
International Organization
International Security
International Studies Quarterly

Journal of Conflict Resolution
Journal of Politics
National Science Foundation
Political Analysis
Political Research Quarterly
Sociological Methods & Research
World Politics

PROFESSIONAL ASSOCIATIONS & WORKING GROUPS

- American Political Science Association, 1994–Present
 - European Political Science Association, 2010–Present
 - Society for Political Methodology, 1995–Present
 - Midwest Political Science Association, 1994–Present
 - International Studies Association, 1997–Present
 - Peace Science Society International, 1998–Present
 - American Statistical Association, 1997–Present
 - Econometric Society, 1997–2010
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STUDENTS

- Jeff Arnold, University of Washington
- Muhammet Bas, Harvard
- David Carter, Princeton
- Tim Carter, Wayne State
- Tyson Chatagnier, Kessler Foundation
- Songying Fang, Rice
- Stephen Gent, UNC–Chapel Hill
- Gang Guo, University of Mississippi
- Yukari Iwanami, Kansai Gaidai University
- Kerim Can Kavakli, Sabanci University
- Jeremy Kedziora, US Government
- Brenton Kenkel, Vanderbilt
- Tamar London, Penn State
- Elena Plaxina, Texas A&M

- Adam Ramey, NYU Abu-Dhabi
- Kris Ramsay, Princeton
- Branislav Slantchev, UC San Diego
- Arthur Spirling, Harvard
- Ahmer Tarar, Texas A&M
- Robert Walker, Willamette University (Atkinson School of Management)
- Taehee Whang, Korea University
- Jun Xiang, Rutgers-Newark
- Kuzey Yilmaz, Koc University

As of 9/20/14