

JEFF GILL  
June 21, 2019

**POSITIONS**

**American University**

Distinguished Professor, Department of Government, July 2017–Present.  
Professor, Department of Mathematics and Statistics, July 2017–Present.  
Member, Center for Behavioral Neuroscience, July 2017–Present.  
Founder and Director, Center for Data Science, January 2018–Present.  
Co-Director, Biostatistics Program, November 2017–Present.

**Washington University, St. Louis**

Professor Emeritus, July 2017–Present.  
Professor, Department of Political Science, College of Arts & Sciences (primary appointment), July 2007–July 2017.  
Professor, Division of Biostatistics, School of Medicine (secondary appointment), July 2011–July 2017.  
Professor, Department of Surgery (Division of Public Health Sciences), School of Medicine (research appointment), July 2011–Present.  
Professor, Department of Mathematics, College of Arts & Sciences (courtesy appointment), July 2008–July 2017.  
Professor, Machine Learning Group, September 2012–July 2017.  
Director, Center for Applied Statistics, Washington University, July 2007–July 2011.

**University of California, Davis**

Professor, Department of Political Science, July 2007 (promoted).  
Associate Professor, Department of Political Science, January 2004–July 2007. Member, Graduate Group in Epidemiology, July 2005–July 2007.

**Harvard University**

Visiting Professor, Department of Government, January 2018–July 2018.  
Faculty Associate, Institute for Quantitative Social Science, January 2018–July 2018.  
Visiting Associate Professor, Department of Government, July 2006–July 2007.  
Faculty Associate, Institute for Quantitative Social Science, July 2006–July 2007.

**University of Florida**

Associate Professor, Department of Political Science, May 2002–December 2003.  
Assistant Professor, Department of Political Science, August 2000–May 2002.  
Courtesy Professor, Department of Statistics, August 2000–Present.

**California Polytechnic State University**

Assistant Professor, Department of Political Science, September 1996–June 2000.

**DMC Telecom**

Director of Sales, Europe, June 1988–June 1992.

**IBM Corporation**

Associate Engineer/Scientist, Federal Systems Division, June 1984–June 1988.

**PUBLICATIONS and FORTHCOMING WORKS**

**Books and Monographs:**

8. Jeff Gill and Michelle Torres. Generalized Linear Models: A Unified Approach. Second Edition. 2019, Sage QASS Series.
7. Jeff Gill. Bayesian Methods: A Social and Behavioral Sciences Approach. Third Edition, in the Statistics in the Social and Behavioral Sciences Series. 2014, Chapman and Hall/CRC.

6. Jeff Gill. Bayesian Methods: A Social and Behavioral Sciences Approach. Second Edition, in the Statistics in the Social and Behavioral Sciences Series. 2007, **Chapman and Hall/CRC**.
5. Jeff Gill. Essential Mathematics for Political and Social Research. 2006, **Cambridge University Press**.
4. Micah Altman, Jeff Gill and Michael P. McDonald. Numerical Issues in Statistical Computing for the Social Scientist. 2003, **John Wiley & Sons**.
3. Jeff Gill. Bayesian Methods: A Social and Behavioral Sciences Approach. 2002, **Chapman and Hall/CRC**.
2. Jeff Gill. Generalized Linear Models: A Unified Approach. 2000, **Sage QASS Series**.
1. Ken Meier and Jeff Gill. What Works: A New Approach to Program and Policy Analysis. 2000, **Westview Press**.

#### Refereed Journal Articles:

52. Nikoleta S. Kolovos, Jeff Gill, Peter H. Michelson, Allan Doctor, Mary E. Hartman. “Reduction in Mortality Following Pediatric Rapid Response Team Implementation.” [Pediatric Critical Care Medicine](#), (19):5, 477–482, (May) 2018.
51. Steven Howard, Zidong Zhang, Paula Buchanan, Stephanie Bernell, Christine Williams, Lindsey Pearson, Michael Huetsch, Jeff Gill, Jose Pineda. “The Cost of a Pediatric Neurocritical Care Program for Traumatic Brain Injury: A Retrospective Cohort Study.” [BMC Health Services Research](#), (18):1, 1-9, 2018.
50. Tara Neumayr, Jeff Gill, Julie C. Fitzgerald, Avihu Z. Gazit, Jose A. Pineda, Robert A. Berg, J. Michael Dean, Frank W. Moler, and Allan Doctor “Identifying Risk for Acute Kidney Injury in Infants and Children Following Cardiac Arrest.” [Pediatric Critical Care Medicine](#), Vol. 18(10), 446-454, (October) 2017.
49. Sarah Gehlert, Jung Ae Lee, Jeff Gill, Graham Colditz, Ruth Patterson, Kathryn Schmitz, Linda Nebeling, Frank Hu, Dale McLerran, Diana Lowry, and Mark Thornquist. “The Structure of Distributed Scientific Research Teams Affects Collaboration and Research Output.” [Transdisciplinary Journal of Engineering & Science](#), Vol. 8, 1-10, 2017.
48. Katherine Steffen, Allan Doctor, Julie Hoerr, Jeff Gill, Chris Markham, Sarah M. Brown, Daniel Cohen, Rose Hansen, Emily Kryzer, Jessica Richards, Sara Small, Stacey Valentine, Jennifer L. York, Enola K. Proctor, Philip C. Spinella. “Controlling Phlebotomy Volume Diminishes PICU Transfusion: Implementation Processes and Impact.” [Pediatrics](#), Vol. 140(2), 2017.
47. S. Reza Jafarzadeh, Benjamin S. Thomas, Victoria J. Fraser, David K. Warren, and Jeff Gill. “Causal Variable Importance of Elixhauser Comorbidity Groups for In-Hospital Mortality in Patients with Bloodstream Infection.” [Annals of Epidemiology](#) (abstract). Vol. 27(8), 523, (August) 2017.
46. S. Reza Jafarzadeh, Benjamin S. Thomas, Jeff Gill, Victoria J. Fraser, Jonas Marschall, David K. Warren. “Sepsis Surveillance from Administrative Data in the Absence of a Perfect Verification.” [Annals of Epidemiology](#), Vol. 26(10), 717-722, (October) 2016.
45. Jonathan Homola, Natalie Jackson, and Jeff Gill. “A Measure of Survey Mode Differences.” [Electoral Studies](#), Volume 44, 255–274, (December) 2016.
44. S. Reza Jafarzadeh, Benjamin S. Thomas, David K. Warren, Jeff Gill, and Victoria J. Fraser. “Longitudinal Study of the Effects of Bacteremia and Sepsis On 5-Year Risk of Cardiovascular Events.” [Clinical Infectious Diseases](#). Volume 63, Issue 4, 495-500, (August) 2016.
43. Jung Ae Lee and Jeff Gill. “Missing Value Imputation for Physical Activity Data Measured by Accelerometer.” [Statistical Methods in Medical Research](#). Volume 27, Issue 2, 490-506, (March) 2016.

42. S. Reza Jafarzadeh, Benjamin S. Thomas; Jonas Marschall, Victoria J. Fraser, Jeff Gill, and David K. Warren. “Quantifying the Improvement in Sepsis Diagnosis, Documentation and Coding: the Marginal Causal Effect of Year of Hospitalization on Sepsis Diagnosis.” [Annals of Epidemiology](#). Volume 26, Issue 1, 71–76, (January) 2016.
41. Emily C. Benesh, Jeff Gill, Laura E. Lamb, and Kelle H. Moley. “Maternal Obesity, Cage Density, and Age Contribute to Prostate Hyperplasia in Mice.” [Reproductive Sciences](#), Volume 23, Issue 4, 176-185, (February) 2016. (Authors’ note in journal: *ECB, JG, and KHM designed the study and ECB performed the data collection and analyzed the findings with LEL and KHM. JG performed the statistical analysis. ECB and JG wrote the manuscript.*)
40. James E. Monogan and Jeff Gill. “Measuring State and District Ideology with Spatial Realignment.” [Political Science Research and Methods](#). Volume 4, Issue 1, 97-121, (December) 2015.
39. Sarah Gehlert, Bobbi J. Carothers, Jung Ae Lee, Jefferson Gill, Douglas Luke, and Graham Colditz. “A Social Network Analysis Approach to Diagnosing and Improving the Functioning of Transdisciplinary Teams in Public Health.” [Transdisciplinary Journal of Engineering & Science](#) Volume 6, 11-22, (December) 2015.
38. S. Reza Jafarzadeh, Benjamin S. Thomas, David K. Warren, Jeff Gill, and Victoria J. Fraser. “Time-Varying Causal Effects of Bacteremia and Sepsis on 5-Year Risk of Cardiovascular Events.” [Annals of Epidemiology](#) (abstract), Volume 25, Issue 9, 705, 2015.
37. Seth A. Strope, Adrienne Kuxhausen, Joel Vetter, and Jeff Gill. “Multilevel Predictors of BPH Medication Initiation in Primary Care and Urology.” [The Journal of Urology](#) (abstract), Volume 193, Issue 4, 280-281, 2015.
36. Richard Traummüller, Andreas Murr, and Jeff Gill. “Modeling Latent Information in Voting Data with Dirichlet Process Priors.” [Political Analysis](#). Volume 23, Number 1, 1-20, (Winter) 2015. Reprinted in *Advances in Political Methodology*, edited by Robert J. Franzese Jr., Edward Elgar Publishing, 2019.
35. S. Reza Jafarzadeh, Benjamin S. Thomas, Jonas Marschall, Victoria J. Fraser, Jeff Gill, and David K. Warren. “Marginal Causal Effect of Year of Hospitalization on Sepsis Diagnosis.” [Annals of Epidemiology](#) (abstract), Volume 24, Issue 9, 691, 2014.
34. Tsung-Han Tsai and Jeff Gill. “Interactions in Generalized Linear Models: Theoretical Issues and an Application to Personal Vote-Earning Attributes.” [Social Sciences](#), Volume 2, Issue 2, 91-113, (May) 2013.
33. Jeff Gill and John Freeman. “Dynamic Elicited Priors for Updating Covert Networks.” [Network Science](#), Volume 1, Issue 01, 68-94, (April) 2013.
32. Jeff Gill and Christopher Witko. “Bayesian Analytical Methods: A Methodological Prescription for Public Administration.” [Journal of Public Administration Research and Theory](#), 23:2, 457-494, 2013.
31. Skyler Cranmer and Jeff Gill. “We Have to Be Discrete About This: A Non-Parametric Imputation Technique for Missing Categorical Data.” [British Journal of Political Science](#). Volume 43, Issue 2, 425-449, (April) 2013.
30. Ruth E. Patterson, Graham A. Colditz, Frank B. Hu, Kathryn H. Schmitz, Rexford S. Ahima, Ross C. Brownson, Kenneth R. Carson, Jorge E. Chavarro, Lewis A. Chodosh, Sarah Gehlert, Jeff Gill, Karen Glanz, Debra Haire-Joshu, Karen Louise Herbst, Christine M. Hoehner, Peter S. Hovmand, Melinda L. Irwin, Linda A. Jacobs, Aimee S. James, Lee W. Jones, Jacqueline Kerr, Adam S. Kibel, Irena B. King, Jennifer A. Ligibel, Jeffrey A. Meyerhardt, Loki Natarajan, Marian L. Neuhaus, Jerrold M. Olefsky, Enola K. Proctor, Susan Redline, Cheryl L. Rock, Bernard Rosner, David B. Sarwer, J. Sanford Schwartz, Dorothy D. Sears, Howard D. Sesso, Meir J. Stampfer, S. V. Subramanian, Elsie M. Taveras, Julia Tchou, Beti Thompson, Andrea B. Troxel, Marianne Wessling-Resnick, Kathleen Y. Wolin, Mark D. Thornquist. “The 2011-2016 Transdisciplinary Research on Energetics and Cancer (TREC) Initiative: Rationale and Design.” [Cancer Causes & Control](#), 24:4, 695-704 (February) 2013.

29. Jose A. Pineda, MD, Jeffrey R. Leonard, MD, Ioanna G. Mazotas, MD, Michael Noetzel, MD, David D. Limbrick, MD, Martin S. Keller, MD, Jeff Gill, PhD, and Allan Doctor, MD (primary authors: Jose Pineda, Jeff Gill, Allan Doctor). “Effect of Implementation of a Paediatric Neurocritical Care Programme On Outcomes After Severe Traumatic Brain Injury: A Cohort Study.” *Lancet–Neurology*, 12:1, 45-52, 2013. *Recognized as the most important contribution to the field of pediatric neurocritical care at the Outlook to the Future Plenary Session of the World Congress on Pediatric Intensive Critical Care* (Seattle 2014).
28. Minjung Kyung, Jeff Gill and George Casella. “Sampling Schemes for Generalized Linear Dirichlet Process Random Effects Models.” With Discussion and Rejoinder. *Statistical Methods and Applications*, 20:3, 259-290, 2012.
27. Minjung Kyung, Jeff Gill and George Casella. “New Findings from Terrorism Data: Dirichlet Process Random Effects Models for Latent Groups.” *Journal of the Royal Statistical Society, Series C*, 60:5, 701-721, 2011.
26. Jeff Gill and Dominik Hangartner. “Circular Data in Political Science and How to Handle It.” *Political Analysis*, 18:2, 316-336, 2010.
25. Minjung Kyung, Jeff Gill, Malay Ghosh, and George Casella. “Penalized Regression, Standard Errors, and Bayesian Lassos.” *Bayesian Analysis*, 5, 369-412, 2010.
24. Minjung Kyung, Jeff Gill and George Casella. “Estimation in Dirichlet Random Effects Models.” *Annals of Statistics*, 38, 979-1009, 2010.
23. Minjung Kyung, Jeff Gill and George Casella. “Characterizing the Variance Improvement in Linear Dirichlet Random Effects Models.” *Statistics and Probability Letters*, 79, 2343-2350, 2009.
22. Jeff Gill and George Casella. “Nonparametric Priors For Ordinal Bayesian Social Science Models: Specification and Estimation.” *Journal of the American Statistical Association*, 104, 453-464, (June) 2009.
21. R.B. Garabed, W.O. Johnson, J. Gill, A.M. Perez, and M.C. Thurmond. “Effects of Politics and Economics on Country-Level Foot-and-Mouth-Disease Status.” *Journal of the Royal Statistical Society, Series A*, 171:3, 699-722, 2008.
20. Jeff Gill. “Is Partial-Dimension Convergence a Problem for Inferences From MCMC Algorithms?” *Political Analysis*, 16:2, 153-178, 2008.
19. Micah Altman, Jeff Gill, and Michael P. McDonald. “Accuracy: Tools for Accurate and Reliable Statistical Computing.” *Journal of Statistical Software*, July, 21:1, 2007. (Abstract published in **Journal of Computational Graphics and Statistics**.)
18. Chris Zorn and Jeff Gill. “The Etiology of Public Support for the Designated Hitter Rule.” *Quarterly Journal of Political Science*, 2:2, 189-203, 2007.
17. Christopher Barker, William K. Reisen, Bruce F. Eldridge, Wesley O. Johnson, and Jeff Gill. Mosquitoes In Space and Time: Meteorologic and Edaphic Factors Affecting Culex Tarsalis Abundance in California. *American Journal of Tropical Medicine and Hygiene*, (abstract) 77:5, 168, 2007.
16. Michael Martinez and Jeff Gill. “Does Turnout Decline Matter? Electoral Turnout and Partisan Choice in the 1997 Canadian Federal Election.” *Canadian Journal of Political Science*, 39, 343-362, (June) 2006.
15. Michael Martinez and Jeff Gill. “The Effects of Turnout on Partisan Outcomes in U.S. Presidential Elections 1960-2000.” *Journal of Politics*, 67:4, 1248-1274, (November) 2005.
14. Jeff Gill and Lee Walker. “Elicited Priors for Bayesian Model Specifications in Political Science Research.” *Journal of Politics*, 67:3, 841-872, (August) 2005.
13. Jeff Gill. “An Entropy Measure of Uncertainty in Vote Choice.” *Electoral Studies*, 24:3, 371-392, (September) 2005.

12. [Kevin Wagner and Jeff Gill](#). “Bayesian Inference in Public Administration Research: Substantive Differences from Somewhat Different Assumptions.” [International Journal of Public Administration](#) 28:1/2, 5-35, (January) 2005.
11. [Jeff Gill](#). “Introducing the Special Issue of Political Analysis on Bayesian Methods (An Introduction and Overview of Bayesian Methods).” [Political Analysis](#), 12:4, 323-337, (Autumn) 2004.
10. [Jeff Gill and George Casella](#). “Dynamic Tempered Transitions for Exploring Multimodal Posterior Distributions.” [Political Analysis](#), 12:4, 425-433, (Autumn) 2004.
9. [Jeff Gill and Richard W. Waterman](#). “Solidary and Functional Costs: Explaining the Presidential Appointment Contradiction.” [Journal of Public Administration Research and Theory](#) 14:4, 547-569, (October) 2004.
8. [Jeff Gill and Gary King](#). “What to do When Your Hessian is Not Invertible: Alternatives to Model Respecification in Nonlinear Estimation.” [Sociological Methods and Research](#), 33:1, 54-87, (April) 2004.
7. [Jeff Gill and Jason Gainous](#). “Why Does Voting Get So Complicated? A Review of Theories for Analyzing Democratic Participation.” [Statistical Science](#), 17:4, 383-404, (November) 2002.
6. [Jeff Gill](#). “Whose Variance is it Anyway? Interpreting Empirical Models with State-Level Data.” [State Politics and Policy Quarterly](#), 1:3, 313-338, (Fall) 2001.
5. [Jeff Gill and Ken Meier](#). “Ralph’s Superstore versus Ralph’s Pretty Good Grocery: An Application of Substantively Weighted Least Squares.” [Public Administration Review](#), 61:1, 4-12, (January/February) 2001.
4. [Jeff Gill and Ken Meier](#). “Public Administration Research and Practice: A Methodological Manifesto.” [Journal of Public Administration Research and Theory](#), 10:1, 157-200, (January) 2000.
3. [Jeff Gill](#). “The Insignificance of Null Hypothesis Significance Testing.” [Political Research Quarterly](#), 52:3, 647-674, (September) 1999.
2. [Jeff Gill and James A. Thurber](#). “Tightwads and Spendthrifts: Measures of Fiscal Behavior In the House of Representatives.” [Political Research Quarterly](#), 52:2, 387-402, (June) 1999.
1. [Jeff Gill](#). “Formal Models of Legislative/Administrative Interaction: A Survey of the Subfield.” [Public Administration Review](#), 55:1, 99-106, (January/February) 1995.

#### Refereed Book Chapters:

9. [Michelle Torres and Jeff Gill](#). Flagship Entries: Generalized Linear Models. In the SAGE Research Methods Foundations. Sage Publications. (Editor Reviewed.) April, 2019.
8. [Jeff Gill and Richard Traummüller](#). “Bayesianische Inferenz als Alternative zur klassischen Statistik.” In [Handbuch Methoden der Politikwissenschaft](#). Wagemann, Claudius, Achim Goerres and Markus Siewert (eds.). Heidelberg/New York: Springer. (Editor Reviewed.) 2018.
7. [Jeff Gill and Jonathan Homola](#). “Issues in Polling Methodologies: Inference and Uncertainty.” In [OUP Handbook on Polling and Polling Methods](#). Lonna Atkeson and Michael Alvarez (eds). 2018, Oxford University Press.
6. [Jeff Gill and Andrew Womack](#). “The Multilevel Model Framework.” In [The SAGE Handbook of Multilevel Modeling](#). Marc A. Scott, Jeffrey S. Simonoff, and Brian D. Marx (eds.). 2013, 3-20, **Sage**.
5. [Jeff Gill](#). “Critical Differences in Bayesian and Non-Bayesian Inference.” In [Current Methodological Developments of Statistics in the Social Sciences](#). Stanislav Kolenikov, Lori Thombs, and Douglas Steinley (eds.). 2010, 135-158. **John Wiley & Sons**.



4. Micah Altman, Jeff Gill, and Michael P. McDonald. “A Comparison of the Numerical Properties of EI Methods.” In [Ecological Inference: New Methodological Strategies](#). Gary King, Ori Rosen, and Martin Tanner (eds.). 2004, 383-408. **Cambridge University Press**.
3. Jeff Gill and David Conklin. “Electronic Democracy: Paving the Dirt Road to the Information Superhighway.” In [Congress and the Internet](#) Congress and the Internet. James A. Thurber (ed.). Winter 2002, **Prentice Hall**.
2. Jeff Gill. “One Year and Four Elections: A Study of the 1998 Capps Campaign for California’s 22nd District.” In [The Battle for Congress: Candidates, Consultants, and Voters](#). James A. Thurber (ed.). Spring 2001, Brookings Institution Press.
1. Ken Meier, Jeff Gill and George Waller. “Optimal Performance vs. Risk Aversion: An Application of Substantively Weighted Analytical Techniques.” In [Advancing Public Management: New Developments in Theory, Methods, and Practice](#). Jeff Brudney, Larry O’Toole, and Hal Rainey (eds.). 2000, **Georgetown University Press**.

**Non-Refereed Works:**

24. Jeff Gill and Simon Heuberger. “Generalized Linear Models: A Modern Perspective.” [SAGE Handbook of Research Methods in Political Science and International Relations](#), Robert Franzese and Luigi Curini, Edtiors. Forthcoming Fall 2019.
23. Jeff Gill. “Bayesian Methods for Sociological Research: An Introduction.” [Wiley Blackwell Encyclopedia of Sociology](#), 2nd Edition. George Ritzer Editor. Forthcoming 2019.
22. Jeff Gill. “Reflections on the Contributions of James A. Thurber.” [Congress and the Presidency](#), Volume 45, Issue 1, 6-7, 2018.
21. Jose Pineda and Jeff Gill. “The Road Between Statistics and Clinical Decision Making Is Longer Than We Think.” [Pediatric Critical Care Medicine](#), Volume 18, Issue 4, 388–390, (April) 2017.
20. Jeff Gill. [e-Study Guide for Essential Mathematics for Political and Social Research textbook](#) [Kindle Edition], (January 1) 2014.
19. Jeff Gill. “Discussion of: Estimating the Historical and Future Probabilities of Large Terrorist Events, by Aaron Clauset and Ryan Woodard.” [Annals of Applied Statistics](#), 7:4, 181-1887, 2013.
18. Jose A. Pineda, MD, Jeffrey R. Leonard, MD, Ioanna G. Mazotas, MD, Michael Noetzel, MD, David D. Limbrick, MD, Martin S. Keller, MD, Jeff Gill, PhD, and Allan Doctor, MD “[Mortality In Severe Traumatic Brain Injury Reply](#).” [Lancet Neurology](#), 12:5, 427-428, 2013.
17. Tsung-han Tsai and Jeff Gill. “[superdiag](#): A Comprehensive Test Suite for Markov Chain Non- Convergence.” In [The Political Methodologist](#). Volume 19, No. 2, 12-18, 2012. (Also at <http://cran.r-project.org/web/packages/superdiag/index.html>.)
16. Jeff Gill “Introduction to the Virtual Issue: Bayesian Methods in Political Science.” In [Political Analysis](#), VIRTUAL ISSUE: BAYESIAN METHODS IN POLITICAL SCIENCE, 1-9 (Fall) 2011.
15. Santiago Olivella and Jeff Gill. “Parallel Gibbs Sampling with `snowfall`.” In [The Political Methodologist](#). Volume 19, No. 1, 4-7, 2011.
14. Hong Min Park and Jeff Gill. [SOLUTIONS MANUAL FOR Bayesian Methods: A Social and Behavioral Sciences Approach, Second Edition](#), 2011, **Taylor & Francis**.
13. Dominik Hangartner and Jeff Gill. “Hypothesis Testing.” In [IPSA Encyclopedia of Political Science](#). Bertrand Badie, Dirk Berg-Schlosser, and Leonardo Morlino (eds.), 2010, **Sage**.
12. Lucas Leemann and Jeff Gill. “Weighted Least Squares.” In [IPSA Encyclopedia of Political Science](#). Bertrand Badie, Dirk Berg-Schlosser, and Leonardo Morlino (eds.), 2010, **Sage**.

11. [Jeff Gill](#). Book review (invited): Scott M. Lynch’s *Introduction to Applied Bayesian Statistics and Estimation for Social Scientists*. [Journal of the American Statistical Association](#), Volume 103 (September), 2008.
10. [Jeff Gill](#). “S’attaquer a l’Heritage de Fisher: Comment Tester une Hypothese en Science Sociale: Quelques Commentaires Sur Denis.” (Grappling with Fisher’s Legacy in Social Science Hypothesis Testing: Some Comments on Denis.) [Journal de la Société Française de Statistique](#), Volume 145, 2004.
9. [Jeff Gill](#). “Quasi-Likelihood Models in R.” In [The Political Methodologist](#), Volume 11, No. 2, 24-27, 2003.
8. [Jeff Gill](#). “Queueing Theory.” In [Encyclopedia of Social Science Research Methods](#). Michael Lewis-Beck, Alan Bryman, Tim Futing Liao (eds.), 2003, **Sage**.
7. [Jeff Gill](#). “Bayesian Inference.” In [Encyclopedia of Social Science Research Methods](#). Michael Lewis-Beck, Alan Bryman, Tim Futing Liao (eds.), 2003, **Sage**.
6. [Jeff Gill](#). “Generalized Linear Models.” In [Encyclopedia of Social Science Research Methods](#). Michael Lewis-Beck, Alan Bryman, Tim Futing Liao (eds.), 2003, **Sage**.
5. [Jeff Gill](#). “Hierarchical Linear Models.” In [Encyclopedia of Social Measurement](#). Kimberly Kempf-Leonard (ed.), 2003, **Academic Press**.
4. [George Casella and Jeff Gill](#). “Voting, Elections and Statistical Science.” [Statistical Science](#), Volume 17, No. 4, (November) 2002.
3. [Jeff Gill](#). “Wielding LaTeX To Greater Effect.” In [The Political Methodologist](#). Volume 11, No. 1, 15-19, 2002.
2. [Jeff Gill](#). “One Year, Four Elections: California 22.” [Extension of Remarks](#), (January) 1999.
1. [Jeff Gill](#). “Formal Models of Bureaucracy.” In [International Encyclopedia of Public Policy and Administration](#). Jay Shafritz (ed.), 1997, **Henry Holt & Company**.

## FEDERAL SPONSORED RESEARCH

9. **Eunice Kennedy Shriver National Institute of Child Health & Human Development (NIH)** “Development and Evaluation of a Bedside Guideline Engine for Severe Traumatic Brain Injury.” Grant Number: 1R21HD086784-01A1. Award amount: \$217,656. Award period: 9/1/17 to 8/31/18. Biostatistics Core Director.
8. **Department of Defense Joint Program Committee 6 (JPC-6), Combat Casualty Care (CCC) Research Program and the Congressionally Directed Medical Research Programs (CDMRP)**. “Novel Artificial Erythrocyte for In-Field Resuscitation of Hemorrhagic Shock” (W81XWH-17-1-0668, PI Allan Doctor). Award amount: \$3,000,000. Award period: September 2017 to September 2020. Subrecipient Principal Investigator (PI), Biostatistics Core Director.
7. **National Institutes of Health, National Heart, Lung and Blood Institute**. “ErythroMer: Nanoscale Bio-Synthetic Red Cell Substitute” (1R42HL135965-01A1, PI Allan Doctor). and Analysis. Award amount: \$1,765,325 to KaloCyte, Inc. (NIH Prime). Award period: January 2017 to January 2020. Subrecipient Principal Investigator (PI), Biostatistics Core Director.
6. **National Science Foundation, Political Science & Methodology, Measurement, and Statistics (MMS), and Political Science**. “Smooth National Measurement of Public Opinion across Boundaries and Levels: A View from the Bayesian Spatial Approach. NSF; Arlington, VA–July, 2016,” SES-1630265 and SES-1630263. With James E. Monogan III, University of Georgia. Total grant award amount to Washington University: \$126,374. Award period August 2016 to August 2019.

5. **National Science Foundation, Political Science & Methodology, Measurement, and Statistics (MMS)**. “Workshop On Methodological Challenges Across the Social, Behavioral, and Economic Sciences; NSF; Arlington, VA–February, 2015,” SES-1503092. Total grant award amount: \$72,214. Award Period: February 2015 to June 2016. Supplement: Total Direct And Indirect Costs \$14193, Award Period September 2016 to June 2017.
4. **National Science Foundation, Political Science & Methodology, Measurement, and Statistics (MMS)**. “Support for Conferences and Mentoring Activities in Political Methodology (supports the Society for Political Methodology conference activities).” SES-1120976. With Robert Franzese (University of Michigan, Political Science). Award amount: \$188,034. Award period: September 2011 to August 2013.
3. **National Institutes of Health, National Cancer Institute**, to establish at Washington University a Transdisciplinary Research in Energetics and Cancer (TREC) Center for “A Multilevel Approach to Energy Balance and Cancer Across the Lifecourse,” Co-Investigator/Core Leader for the Bioinformatics Core (Core D). Total grant award amount: \$9,248,284. Award Period: July 2011 to July 2016. Biostatistics Core Director.
2. **National Science Foundation, Methodology, Measurement, and Statistics (MMS)**. “Collaborative Research: Identifying Structure in Social Data Models using Markov Chain Monte Carlo Algorithms.” DMS-1026165 and SES-1028329. With George Casella (University of Florida, Statistics). Award amount: \$189,276. Award period: October 2010 to October 2012.
1. **National Science Foundation, Mathematical Social and Behavioral Sciences (MSBS)**. “Adaptive Nonparametric Markov Chain Monte Carlo Algorithms for Social Data Models with Nonparametric Priors,” DMS-0631632 and SES-0631588. With George Casella (University of Florida, Statistics). Award amount: \$350,000. Award period: January 2007 to January 2009.

## GRANTS, AWARDS, AND HONORS

14. Biostatistics Theme 3 Leader, for “The Influence of Chronodisruption on Risk of Preterm Birth.” [March of Dimes Prematurity Research Center](#), with Erik Herzog, Sarah England, Emily Jungheim, and Justin Fay. Award amount: \$10,000,000. Award period: October 2014 to October 2017.
13. Technical Advisory Group (TAG) for the NSF PRIME grant, (David Rindskopf and William Shadish PIs), DGE-1438925. 2014-2015.
12. *Teaching Award, University of Bern*: Beste Gesamtnote / Beste Didaktiknote (best overall grade and best grade for didactics), December 2010.
11. *Teaching Award, University of Bern*: Höchste Fachkompetenz (highest competence), December 2010.
10. *The 2009 Gosnell Prize*, for the best work in political methodology presented at any political science conference in the preceding year, for “Dynamic Elicited Priors for Updating Covert Networks,” with John Freeman. July 2010.
9. *Fellow of the Society for Political Methodology*, Elected in Inaugural Class 2008.
8. *University of California, Davis, Institute for Governmental Affairs Faculty Research Support Grant*. 2004-2005.
7. *University of Florida, College of Liberal Arts Research Support Grant*. Spring 2001.
6. *1999 Okidata Best Research Web Site Award* from the Computers and Multimedia Section of the American Political Science Association, September. For the Harvard-MIT Data Center Web Site, (coauthored with Micah Altman, Gary King, and William Wei). July 1999.
5. *European Series 1999 Award* from the British Council and the European Union. 1999.



4. *State Faculty Support Grant Award* for “Bayesian Hierarchical Models of Education Policy”. 1999.
3. *State Faculty Support Grant Award* for “Advancements in Political Methodology”. 1998.
2. *State Faculty Support Grant Award* for “Politometrics”. 1997.
1. *American University Dissertation Fellowship Award*. 1995.

## EDUCATION

### Harvard University

Department of Government, Harvard-MIT Data Center  
Post-Doctorate Research Fellow, 1997-98

### American University

School of Public Affairs and Department of Mathematics & Statistics  
Doctor of Philosophy, May 1996

*Test Fields:* (Department of Mathematics & Statistics) Mathematical Statistics, Statistical Computing, (School of Public Affairs) American Politics, Public Administration.

*Full fellowship student.*

*University Dissertation Fellowship Award winner.*

*Dissertation:* A Probabilistic Distribution Theory Model of Bureaucratic Behavior: Policy Preferences as Random Variables. Committee: James A. Thurber (Government, Chair), David Rosenbloom (Public Administration), Robert Jernigan (Statistics).

### Georgetown University

School of Business  
Master of Business Administration, May 1988

### University of California, Los Angeles

College of Letters and Science  
Bachelor of Arts, Mathematics, June 1984

## EDITORIAL RESPONSIBILITIES:

**Editor in Chief:** [Political Analysis](#), January 1, 2018 to January 1, 2021.

**Editor:** [Statistics in the Social and Behavioral Sciences](#), Chapman & Hall/CRC, July 2012–Present.

**Associate Editor:** [Political Analysis](#), 2003-2007.

**Member, Editorial Board:** [Political Analysis](#) 2003–2004, 2007–2009, 2011-2018. [State Politics and Policy Quarterly](#) 2002–2011, [Journal of Public Administration Research and Theory](#) 2004–2010.

## INVITED TALKS AND WORKSHOPS:

“Basics of Bayesian Hierarchical Models.” Department of Political Science and Economics, **University of Texas–Dallas**, March 26, 2019.

“Introduction to Bayesian Hierarchical Modeling.” Q-Step Masterclass. University of Warwick, Coventry UK, February 12, 2019.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Latin American Political Methodology Annual Meeting (Keynote Talk), Bogota, November 9, 2018.

“Bayesian Hierarchical Models.” Statistical Horizons Workshop, Philadelphia, November 2-3, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Department of Political Science, **Iowa State University**, October 19, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Informatics Institute, **University of Florida**, October 15, 2018.

“Mode Effects in American Public Opinion Polling.” Department of Political Science, **University of Florida**, October 15, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Applied Statistics Seminar, **Harvard University**, April 25, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Department of Mathematics and Statistics, **Georgetown University**, April 13, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Department of Political Science, **University of Michigan**, April 2, 2018.

“Non-parametric Statistical Tools for the Social Sciences.” Workshop. Department of Political Science, **Arizona State University**, January 27, 2017.

“Bayesian Hierarchical Models.” Statistical Horizons Workshop, Philadelphia, November 3-4, 2017.

“Handling Missing Data Under Difficult and Ordinary Circumstances.” Department of Political Science, **University of Mannheim**, July 6, 2016.

“Modern Bayesian Methods and Computing for Survey Research.” Workshop Joint with Stas Kolenikov. American Association for Public Opinion Research (AAPOR) Annual Meeting, May 2016.

“Basics of Bayesian Hierarchical Models.” Department of Political Science and Economics, **University of Texas–Dallas**, April 26, 2016.

“Multilevel Models and Bayesian Stochastic Simulation for Social Science Research.” Workshop. Department of Political Science, **Arizona State University**, April 4, 2016.

“Statistical Modeling to Understand Terrorism: An Overview of New Tools.” Political Science Association [One-day conference to showcase quantitative work in political science in the UK](#). Keynote Address. **British Academy**, London, November 25, 2015.

“Why Bayesian Statistics?” Workshop. TARDIS (The advances in research designs symposium), **University of North Texas**, September 19, 2015.

“To be Bayesian, or not to be: that is the question in the social sciences.” Lake Como, Italy, Dipartimento di Scienze Statistiche, Università Cattolica, and CNR-IMATI, June 9, 2015.

[Applied Bayesian Statistics School: “Modern Bayesian Methods and Computing for the Social Sciences.”](#) Workshop. Villa del Grumello, Lake Como, Italy, June 8-12, 2015.

“Dynamic Elicited Priors for Updating Covert Networks.” Department of Statistics, **Indiana University**, April 27, 2015.

“Basics of Bayesian Hierarchical Models.” Department of Political Science and Economics, **University of Texas–Dallas**, November 18, 2014.

[“Bayesian Hierarchical Models for Social Research.”](#) Workshop. Department of Politics and Nuffield College, **University of Oxford**, June 22-25, 2014.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions.” Division of Biostatistics, **University of Minnesota**, May 2, 2014.

“Using Statistical Modeling to Fight Terrorism.” Quantitative Methods Collaboration (QMC) Series, **University of Minnesota**, April 21, 2014.

“Applied Bayesian Hierarchical Modeling for the Social Sciences.” **Society for Bayesian Statistical Science** (SBSS). Webinar, April 18, 2014.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Department of Political Science, **Rice University**, March 19, 2014.

“Statistical Modeling of Injury Severity and Outcomes.” [Pediatric Neurocritical Care Outcomes Symposium: Application of Implementation Science to Traumatic Brain Injury](#). **Washington University School of Medicine**, November 15, 2013.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions.” Department of Statistics, **University of Missouri**, October 30, 2013.

“Basics of Bayesian Hierarchical Modeling.” 2013 Institute for Political Methodology (IPM), **National Chengchi University**, Taipei, Taiwan, July 23-24, 2013.

“Using Statistical Modeling to Fight Terrorism.” [Science On Tap](#), Schlafly Bottleworks, Maplewood, MO, May 29, 2013.

“Missing Data in Social Network Analysis Is Handled Poorly.” Department of Political Science and [Urban Network](#), **University of Chicago**, May 10, 2013.

“Basics of Bayesian Hierarchical Models.” Department of Political Science and Economics, **University of Texas–Dallas**, April 24, 2013.

“Basics of Bayesian Hierarchical Models.” Department of Political Science, **University of Michigan**, March 22, 2013.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of Missouri-Saint Louis**, February 27, 2013.

“Introducing the Bayesian Approach to Spatial Statistics.” Spatial Econometrics Conference, **Texas A&M University**, February 22, 2013.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions.” Southeast Methodology Meeting (SEMM), **University of South Carolina**, February 8, 2013.

“An Introduction to Circular Data Analysis and Some Bayesian Approaches.” The Institute of Statistical Mathematics, **Tokyo, Japan**, July 5, 2012.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions.” ISBA 2012 World Meeting, **Kyoto, Japan**, June 28, 2012.

“Maths for Political Science.” Workshop. ECPR Winter School in Methods and Techniques, **Universität Wien**, February 11-18, 2012.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” School of Public Health, **Saint Louis University**, February 6, 2012.

“Bayesian Causal Inference Workshop.” (With Don Rubin). Workshop. School of Law, **Northwestern University**, July 11-13, 2011.

“Multilevel Models: Graduate Workshop.” Department of Political Science, **Texas A&M University**, June 27-29, 2011.

“Applications of Dirichlet Process Mixtures Models: Analyzing Data on Terrorist Groups.” 2011 International Workshop on Objective Bayes Methodology (O-Bayes 2011), **East China Normal University**, June 12, 2011.

“Recent Developments in Quantitative Political Science” and “An Introduction to Multilevel Models, With Applications in R.” School of International Relations and Public Affairs, **Fudan University**, June 14, 2011.

“Using Nonparametric Bayesian Modeling to Fight Terrorism.” North-Eastern Methods Program (NEMP), **New York University**, May 13, 2011.

“Nonparametric Tools For Data Exploration.” Department of Political Science, **University of South Carolina**, March 18, 2011.

“Model-Based Nonparametric Inference.” Department of Political Science, **University of South Carolina**, March 18, 2011.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of Georgia**, November 16, 2010.

“The State of Graduate Education in Political Methodology.” Directions in Political Methodology Conference sponsored by the Political Science Department and The Halle Institute, **Emory University**, November 5, 2010.

“Using Statistical Modeling to Fight Terrorism.” Department of Biostatistics, **University of Minnesota**, October 20, 2010.

“Generalized Linear Models: Graduate Workshop.” Department of Political Science, **Texas A&M University**, July 12-21, 2010.

“Dynamic Elicited Priors for Updating Covert Networks.” With John Freeman. Center for Global Collective Action Conference on Terrorism and Policy, **University of Texas at Dallas**, May 21, 2010.

“Three Topics in Political Methodology: Bayesian Methods, State of the Subfield, Nonparametrics.” Quantitative Social Science Institute, **University of Kentucky**, April 29-30, 2010.

“Nonparametric Bayesian Approaches for the Social Sciences, An Update.” One Week Workshop: Department of Sociology, and the Department of Political Science, **University of Bern**. Bern, Switzerland, December 14-17, 2009.

“Multilevel Model Specifications in Political Science.” Workshop. School of Economic, Political and Policy Sciences, **University of Texas at Dallas**, November 6-7, 2009.

“Nonlinear Multilevel Models for Data Challenges.” Department of Political Science, **University of South Carolina**, November 2, 2009.

“Multilevel Model Specifications in Political Science.” Workshop, Department of Political Science, **Seoul National University**. Seoul, Korea, May 18-20, 2009.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Quantitative Methods and Models Working Group, **University of Minnesota**, March 3, 2009.

“Applied Bayesian Models.” One Week Workshop: Department of Sociology, and the Department of Political Science, **University of Bern**. Bern, Switzerland, December 8-12, 2008.

“Elicited Priors for Combining Qualitative and Quantitative Inference With An Application to Nicaraguan Politics.” **Centro de Investigaciones y Docencia Economicas (CIDE)** and **Instituto Tecnológico Autónomo de México (ITAM)**, November 6-7, 2008.

“Estimation in Dirichlet Process Random Effects Models.” Department of Statistics, **University of Michigan**, September 19, 2008.

“Circular Data in Political Science and How to Handle It.” IQSS Research Workshop in Applied Statistics, **Harvard University**, April 23, 2008.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of Iowa**, March 27, 2008.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **Texas A&M University**, March 18, 2008.

“Nonparametric Priors For Ordinal Bayesian Social Science Models: Specification and Estimation.” Department of Statistics, **University of Missouri**, March 12, 2008.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of Illinois**, Urbana–Champaign, March 5, 2008.

“Nonparametric Priors For Ordinal Bayesian Social Science Models: Specification and Estimation.” Department of Political Science, **University of Rochester**, Riker Seminar Series, February 8, 2008.

“An Introduction to Bayesian Statistical Methods.” One Week Workshop: Department of Sociology, and the Department of Political Science, **University of Bern**. Bern, Switzerland, December 10-15, 2007.

“Nonparametric Priors For Ordinal Bayesian Social Science Models: Specification and Estimation.” Department of Statistics, **Virginia Polytechnic Institute and State University**, November 8, 2007.

“Nonparametric Priors for Ordinal Bayesian Social Science Models: Specification and Estimation.” Department of Mathematics, **Washington University**, November 6, 2007.

“Introducing Dynamic Elicited Priors for Modeling Covert Networks.” Department of Political Science, **University of South Carolina**, October 12, 2007.

“Introducing Bayesian Statistical Approaches for the Social Sciences.” Brown School of Social Work, **Washington University**, September 28, 2007.

“Dirichlet Process Priors for Bayesian Models with an Application to Bureaucratic Politics.” Department of Statistics, **University of Florida**, January 22, 2007.

“Markov Chain Monte Carlo Methods for Models with Nonparametric Priors.” Department of Politics, **Princeton University**, December 1, 2006.

“Nonparametric Priors for Bayesian Social Science Models.” Quantitative Methods in the Social Sciences Program, **Columbia University**, November 16, 2006.

“Dynamic Elicited Priors for Updating Covert Networks.” With John Freeman. Virginia Modeling, Analysis, and Simulation Center Human Behavioral Modeling Workshop, sponsored by the **Joint Forces Command** ([www.jfcom.mil](http://www.jfcom.mil)), November 2-3, 2006.

“A Survey of Bayesian Methodology in the Social Sciences Today.” Sixth Winemiller Conference, Department of Statistics, **University of Missouri**, October 12, 2006.

“Markov Chain Monte Carlo Convergence Issues.” Institute of Statistics and Decision Sciences, **Duke University**, April 7, 2006.

“Unifying Qualitative and Quantitative Methodology with Elicited Priors.” IQSS Research Workshop in Applied Statistics, **Harvard University**, March 22, 2006.

“Specifying and Constructing Elicited Priors in Bayesian Models.” Political Methodology Workshop Series, **Stanford University**, February 16, 2006.

“A Queueing Theory Model for Assessing Congressional Productivity.” Department of Political Science, **University of North Carolina**, September 23, 2005.

“Bayesian Methods for Modeling Uncertainty.” Department of Political Science, **University of Kansas**, May 3, 2005.

“Workshop on Bayesian Statistics.” Department of Political Science, **Penn State University**, April 28-29, 2005.

“Bayesian Methods for Understanding Individual Human Behavior: Inference in a World of Uncertainty.” Department of Political Science, **University of Pittsburgh**, March 4, 2005.

“Bayesian Stochastic Simulation Using WinBUGS.” Department of Statistics Shortcourses, **University of Florida**, Orlando, February 28-March 1, 2005.

“Bayesian Stochastic Simulation for Real-Time Analysis.” Virginia Modeling, Analysis, and Simulation Center Human Behavioral Modeling Workshop, sponsored by the Joint Forces Command ([www.jfcom.mil](http://www.jfcom.mil)), January 4-5, 2005.



“Justifying Bayesian Methods for Social Science Research.” M.D. Anderson Cancer Center, **University of Texas**, October 25, 2004.

“The Science of Informed Bayesian Priors.” Department of Political Science, **Texas A&M University**, October 22, 2004.

“Dynamic Tempered Transitions for Exploring Multimodal Posterior Distributions.” Department of Political Science, **Rice University**, April 9, 2004.

“Bayesian Stochastic Simulation Using WinBUGS.” Department of Statistics Shortcourses, **University of Florida**, Orlando, March 8-9, 2004,

“Empirical Tests of Complex Voting Models with Uncertainty.” Department of Statistics, **University of Missouri**, December 5, 2003.

“A Bayesian Test of Principal-Agent Relationships Involving Senate-Approved Appointees.” Department of Government, **American University**, October 8, 2003.

“Fundamentals of Bayesian Inference and Bayesian Model Selection.” North-Eastern Methods Program (NEMP), **New York University**, April 25, 2003.

“Modeling and Analysis using Monte Carlo Methods.” Department of Statistics Shortcourses, **University of Florida** (with George Casella), Orlando, March 10-11, 2003.

“Seminar on Bayesian Stochastic Simulation: Markov Chain Monte Carlo and Related Methods.” Institute for Social Research, and Department of Mathematics and Statistics in the Faculty of Arts and Sciences, **York University**, January 17, 2003.

“A Controversy Resolved: Bayesian Hierarchical Modeling of the Education Production Function, with an Application to the Effect of Increasing Minority Teachers.” Martin School of Public Policy and Administration, **University of Kentucky**, October 25, 2002.

“Bayesian Methods in the Social Sciences: Markov Chain Monte Carlo.” American Sociological Association Annual Meeting, Methods/ICPSR One Day Workshop (with Adrian Raftery), Chicago, August 15, 2002.

“Bayesian Analysis: An Overview” ICPSR Summer Program in Quantitative Methods, Hubert M. Blalock, Jr. Memorial Lecture Series. **University of Michigan**, July 29-August 2, 2002.

“Modeling and Analysis using Monte Carlo Methods.” Department of Statistics Shortcourses, **University of Florida** (with George Casella), Orlando, March 4-5, 2002.

“Bayesian Hierarchical Models with an Application to Education Policy Analysis.” Department of Political Science, **Michigan State University**, November 30, 2001.

“Ecological Inference: A Primer.” Department of Statistics Seminar Series, **University of Florida**, October 26, 2000.

“An Introduction to Ecological Inference Using King’s Model.” ICPSR Summer Program in Quantitative Methods, Hubert M. Blalock, Jr. Memorial Lecture Series, **University of Michigan**, July 17-18, 2000.

“A Generalized Inverse/Generalized Cholesky Solution to Ill-Behaved Hessian Matrices in Non-Linear Models.” Department of Mathematics and Statistics, **CSU Chico**, March 19, 1999.

“The Insignificance of Null Hypothesis Significance Testing.” Southern California Area Methods Program, **Caltech Conference**, February 12, 1999.

“A Generalized Inverse/Generalized Cholesky Solution to Ill-Behaved Hessian Matrices in Non-Linear Models.” Southern California Area Methods Program **UCLA Conference**, October 2, 1998.

“The Current Incompatible State of Null Hypothesis Significance Testing in the Social Sciences.” Department of Political Science, **Texas A&M University**, March 1998.

Short Course (4 hours) on Generalized Linear Models (GLMs), Boston Chapter of the American Statistical Association, **Harvard University**, February 28, 1998.

## SELF-INVITED TALKS AND WORKSHOPS:

“A Flexible Class of Bayesian Frailty Models For Political Science Data.” **Hertie School of Government**, May 9, 2019.

“A Flexible Class of Bayesian Frailty Models For Political Science Data.” Department of Socioeconomics, **Vienna University of Economics**, May 7, 2019.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Department of Government, **Essex Univeristy**, December 11, 2018.

“Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions, Including An Application to Analyzing Terrorist Groups.” Applied Statistics Seminar, **Massachusetts Institute of Technology**, April 18, 2018.

“Mode Effects in American Public Opinion Polling.” Department of Methodology, **London School of Economics and Political Science**, December 5, 2017.

“Mode Effects in American Public Opinion Polling.” Department of Political Science, **University of Houston**, September 29, 2017.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of Kentucky**, April 19, 2017.

“Circular Data in Political Science and How to Handle It.” Department of Political Science, **University of Missouri**, October 11, 2016.

“Handling Missing Data Under Difficult and Ordinary Circumstances.” Department of Social Sciences, **Goethe University Frankfurt**, July 5, 2016.

“When Is It Okay to Impute Missing Values of the Outcome Variable.” Department of Political Science, **University of North Texas**, September 18, 2015.

“Using Nonparametric Modeling to Fight Terrorism.” Department of Political Science, **University of California, Davis**, November 8, 2011.

“Using Nonparametric Modeling to Fight Terrorism.” Department of Statistics, **University of Missouri**, April 5, 2011.

“Nichtparametrische Methoden für die Sozialwissenschaften.” **Universität Mannheim**, Fakultät für Sozialwissenschaften., October 4-6, 2010.

“Circular Data in Political Science and How to Handle It.” Department of Political Science, **University of Florida**, January 29, 2010.

“Circular Data in Political Science and How to Handle It.” Department of Political Science, **University of Missouri**, March 6, 2009.

“Critical Differences in Bayesian and Non-Bayesian Inference and Why the Former is Better.” Department of Political Science, **University of South Carolina**, October 31, 2008.

“Circular Data in Political Science and How to Handle It.” Department of Political Science, **University of North Carolina**, October 23, 2008.

“Nonparametric Priors For Ordinal Bayesian Social Science Models: Specification and Estimation.” Department of Government, **American University**, April 25, 2007.

## CONFERENCE AND SYMPOSIUM PAPER PRESENTATIONS:

Gerard Slobogean and Jeff Gill. “A Prospective Clinical Trial Comparing Operative versus Nonoperative Fixation of Minimally Displaced Lateral 2019 Orthopaedic Trauma Association (OTA) Annual Meeting Acceptance Podium Presentation. Compression Pelvis Fractures.”

“An Imputation Solution for Differentiating between Unreported Attitudes and Genuine Nonattitudes in Survey Data.” BigSurv Meeting, Barcelona, October 26, 2018.

Natalie Jackson and Jeff Gill. “An Imputation Solution for Differentiating between Unreported Attitudes and Genuine Nonattitudes in Survey Data.” American Association for Public Opinion Research (AAPOR) Annual Meeting, May 18, 2018.

Jonathan Homola and Jeff Gill. “A New Class of Bayesian Frailty Models.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. University of Wisconsin, July 13, 2017.

Natalie Jackson, Skyler Cranmer, and Jeff Gill. “Non-Parametric Multiple Hot Deck Imputation for Surveys: Correcting for Imprecise Polling Estimates.” American Association for Public Opinion Research (AAPOR) Annual Meeting, May 18, 2017.

Jeff Gill. “A Review of Missing Data in Political Science and Some New Tools.” Keynote Address at the Annual Asian Political Methodology Meeting, January 8, 2016. Tsinghua University in Beijing, China, January 8, 2016.

Jamie Monogan and Jeff Gill. “Slicing Public Opinion for State and National Research.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. Rice University, July 21, 2016.

James E. Monogan III and Jeff Gill. “Measuring State Ideology with Spatial Realignment.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. University of Virginia, July 18, 2013.

Andrew Womack, Jeff Gill, and George Casella. “Revealing Latent Clusters from Dirichlet Process Mixtures Models Using Product Partitions.” St. Louis Area Methods Meeting (SLAMM!), University of Iowa, April 19, 2013.

Jeff Gill. “The Application of Statistical Regression Methods to Animal Models: Relevance to Transdisciplinary Research.” TREC Scientific Meeting, Fred Hutchinson Cancer Research Center, March 28, 2013.

Andrew Womack, Jeff Gill, and George Casella. “Modeling Latent Information in Terrorism Data with Dirichlet Process Priors.” The 2nd Institute of Mathematics Asia Pacific Rim Meeting, Tsukuba City, Japan, July 3, 2012.

Chris Witko and Jeff Gill. “A Bayesian Spatio-Temporal Hierarchical Model of Partisan Effects on Deindustrialization at the State Level.” Southern Political Science Association Annual Meeting, New Orleans, January 12, 2012.

Dominik Hangartner, Jeff Gill, and George Casella. “Modeling Latent Information in Terrorism Data with Dirichlet Process Priors.” Southern Political Science Association Annual Meeting, New Orleans, January 6, 2011.

Dominik Hangartner, Jeff Gill, and George Casella. “An Application of Dirichlet Process Mixture Priors to Political Science Data.” American Political Science Association Annual Meeting, Washington, DC, September 3, 2010.

Xun Pang and Jeff Gill. “Spike and Slab Priors for Bayesian Generalized Linear Models.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. Yale University, July 24, 2009.

Dominik Hangartner, Jeff Gill, and George Casella. “Applications of Dirichlet Process Priors for Semi-parametric Regression.” Midwestern Political Science Association Annual Meeting, Chicago, April 24, 2010.

Dominik Hangartner, Jeff Gill, and George Casella. “Applications of Dirichlet Process Priors for Semi-parametric Regression.” Western Political Science Association Annual Meeting, San Francisco, April 3, 2010.

- Dominik Hangartner and Jeff Gill. “An Introduction to Circular Data Analysis and Some Bayesian Approaches.” Seminar on Bayesian Inference in Econometrics and Statistics (SBIES), St. Louis, May 3, 2009.
- Xun Pang and Jeff Gill. “Spike and Slab Priors for Bayesian Generalized Linear Models.” Midwestern Political Science Association Annual Meeting, Chicago, April 3, 2009.
- Jeff Gill. “New Developments in Dirichlet Process Model Estimation.” Southern Political Science Association Annual Meeting, New Orleans, January 10, 2009.
- Dominik Hangartner and Jeff Gill. “Circular Data in Political Science and How to Handle It.” American Political Science Association Annual Meeting, Boston, August 29, 2008.
- Jeff Gill and John Freeman. “A New Technology for Dynamic Elicitation of Bayesian Priors: Results from Experiments.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. University of Michigan, July 12, 2008.
- Jeff Gill and John Freeman. “Dynamic Elicited Priors for Updating Covert Networks: Evidence From Experimentation.” The Harvard Networks in Political Science Conference, June 13, 2008.
- Jeff Gill. “Nonparametric Bayes from a Social Science Perspective.” Seminar on Bayesian Inference in Econometrics and Statistics (SBIES), Chicago, May 3, 2008.
- Dominik Hangartner and Jeff Gill. “Circular Data in Political Science and How to Handle It.” Midwestern Political Science Association Annual Meeting, Chicago, April 5, 2008.
- Jeff Gill and George Casella. “Dirichlet Process Priors as a Clustering Mechanism for Incomplete Social Science Data.” Southern Political Science Association Annual Meeting, New Orleans, January 12, 2008.
- Jeff Gill and George Casella. “Adaptive Nonparametric Markov Chain Monte Carlo Algorithms for Social Data Models with Nonparametric Priors.” American Political Science Association Annual Meeting, Chicago, August 30, 2007.
- Jeff Gill and George Casella. “Nonparametric Priors for Ordinal Bayesian Social Science Models: Specification and Estimation.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. Penn State University, July 20, 2007.
- Jeff Gill and George Casella. “Adaptive Nonparametric Markov Chain Monte Carlo Algorithms for Social Data Models with Nonparametric Priors.” Midwestern Political Science Association Annual Meeting, Chicago, April 20, 2006.
- Jeff Gill. “Is Partial-Dimension Convergence a Problem for MCMC Algorithms?” American Political Science Association Annual Meeting, Washington, September 3, 2005.
- Jeff Gill. “Is Partial-Dimension Convergence a Problem for MCMC Algorithms?” Midwestern Political Science Association Annual Meeting, Chicago, April 8, 2005.
- Richard W. Waterman and Jeff Gill. “Mission Accomplished?: Reorganization Politics and the establishment of the Department of Homeland Security.” Midwestern Political Science Association Annual Meeting, Chicago, April 7, 2005.
- Jeff Gill and Michael Martinez. “Does Turnout Decline Matter?: Electoral Turnout and Partisan Choice in Canada.” American Political Science Association Annual Meeting, Washington, September, 2004.
- Jeff Gill and George Casella. “Dynamic Tempered Transitions for Exploring Multimodal Posterior Distributions.” Annual Summer Meeting of the Society for Political Methodology and APSA Methods Section. Stanford University, July 30, 2004.
- David Hedge, Renee Johnson, and Jeff Gill. “Control of Bureaucracy as a Function of Presidential Popularity: Does the 104th Congress Make a Difference.” American Political Science Association Annual Meeting, Chicago, September 2003.
- Ryan Bakker and Jeff Gill. “Time and Punishment: Do EU Voters Chasten Their Power in Power?” Midwestern Political Science Association Annual Meeting, Chicago, April 4, 2003.

Jeff Gill and Gary King. “What to do When Your Hessian is Not Invertible: Alternatives to Model Respecification in Nonlinear Estimation.” Annual UF/FSU Joint Research Colloquium, Tallahassee, January 24, 2003.

Richard W. Waterman and Jeff Gill. “A Dynamic Principal-Agent Model of Legislative-Bureaucratic Interaction.” Southern Political Science Association Annual Meeting, Savannah, November 7, 2002.

Richard W. Waterman and Jeff Gill. “A Dynamic Principal-Agent Model of Legislative-Bureaucratic Interaction.” Third Annual State of the States Conference, Georgetown University, October 10, 2002.

Michael Martinez and Jeff Gill. “Have Turnout Effects Really Declined? Testing the Partisan Implications of Marginal Voters.” American Political Science Association Annual Meeting, Boston, August 31, 2002.

David Hedge, Renee Johnson, and Jeff Gill. “Presidential Popularity and Congressional Control of Bureaucracy: The Clinton Administration and the Contract with America.” American Political Science Association Annual Meeting, Boston, August 31, 2002.

Micah Altman, Jeff Gill, and Michael P. McDonald. “Reasonable Reckoning Regarding Regression Replication (Redux).” New Advances in Ecological Inference Conference, Harvard University, June 17, 2002.

Richard W. Waterman and Jeff Gill. “A Bayesian Dynamic Information Exchange Model of State Legislative Interaction with Bureaucracies.” Second Annual State of the States Conference, UW-Milwaukee, May 24, 2002.

Michael Martinez and Jeff Gill. “The Effects of Turnout on Vote Choice: A Simulation Based on Multinomial Probit Estimates.” Southern Political Science Association Annual Meeting, Atlanta, November 9, 2001.

Jeff Gill. “Principia Methodologica: Large-n Bayesian Models in Public Administration.” Sixth National Public Management Research Conference, 20-21 October, 2001. School of Public and Environmental Affairs, Indiana University, Bloomington.

Rick Waterman and Jeff Gill. “Testing the Assumptions of the Principal-Agent Model: An Empirical Analysis.” American Political Science Association Annual Meeting, San Francisco, September 31, 2001.

Jeff Gill. “Interaction Hierarchies in Generalized Linear Models.” American Political Science Association Annual Meeting, San Francisco, September 30, 2001.

Jeff Gill. “Congressional Support for K-12 Educational Internet Infrastructure.” Conference: Congress, the Internet, and Deliberative Democracy. Washington, DC, May 4, 2001.

Jeff Gill. “Assessing the Impact of Education Public Policies: A Bayesian Random Effects Model of Resource Allocation.” Midwestern Political Science Association Annual Meeting, Chicago, April 20, 2001.

Jeff Gill and Nick Theobald. “Show Me What You Got: State-Wide Evaluation of Local District Performance.” Southern Political Science Association Annual Meeting, Atlanta, November 9, 2000.

Jeff Gill. “How to Be a Better Frequentist.” Fifth International Conference on Social Science Methodology Organized by: Research Committee on Logic and Methodology (RC33) of the International Sociological Association (ISA), German Social Science Infrastructure Service (GESIS), Zentralarchiv für Empirische Sozialforschung (ZA). Cologne, Germany, October 3, 2000.

Jeff Gill. “Une mesure statistique de représentation bureaucratique: Amélioration sur la mesure de Nachmias-Rosenblom de variation.” 18th World Congress of Political Science, Quebec, August 4, 2000.

Micah Altman, Jeff Gill and Michael P. McDonald. “Climbing Virtual Mountains: Some Computational Complexities of Maximum Likelihood Estimation.” Midwestern Political Science Association Annual Meeting, Chicago, April 27, 2000.

Jeff Gill and Ken Meier. “Public Administration Research and Practice: A Methodological Manifesto.” Public Management Conference, College Station, December 3, 1999.



Jeff Gill. “Testing Bayesian Hypothesis Testing with an Application to Bureaucratic Politics.” Public Management Conference, College Station, December 3, 1999.

Jeff Gill and Nick Theobald. “A Tale of Two States: Comparing Educational Performance Between Texas and California Using SWAT Analysis.” Midwestern Political Science Association Annual Meeting, Chicago, April 15, 1999.

Jeff Gill and Nick Theobald. “Looking for Data in All the Wrong Places: Standardized Educational Testing as a Measure of Outcomes.” Western Political Science Association Annual Meeting, Seattle, March 25, 1999.

Jeff Gill. “A Campaign Profile: The 1998 Congressional Election in the 22nd District of California.” Pew Charitable Trust Conference on Campaign Conduct, December 1998, Washington, DC.

Jeff Gill. “Entropy, Uncertainty, and Vote Choice.” American Political Science Association Annual Meeting, Boston, September 1998.

Jeff Gill. “The Theory and Application of Generalized Substantively Reweighted Least Squares Regression.” Western Political Science Association Annual Meeting, Los Angeles, March 1998.

Jeff Gill and Ken Meier. “Ralph’s Superstore versus Ralph’s Pretty Good Grocery: An Application of Substantively Weighted Least Squares.” Midwestern Political Science Association Annual Meeting, Chicago, April 23, 1998.

Ken Meier, Jeff Gill and George Waller. “Optimal Performance vs. Risk Aversion: An Application of Substantively Weighted Least Squares.” Public Management Research Conference, Athens GA, October 1997.

Jeff Gill. “The Political Entropy of Vote Choice: An Empirical Test of Uncertainty Reduction.” American Political Science Association Annual Meeting, Washington, DC, August 31, 1997.

Jeff Gill and James A. Thurber. “A Process Control Model of Legislative Productivity in the House of Representatives: Testing the Effects of Congressional Reform.” American Political Science Association Annual Meeting, Washington, DC, September 1997.

Jeff Gill. “A Process Control Model of Legislative Throughput.” Western Political Science Association Annual Meeting, Tucson, February 1997.

Jeff Gill and James A. Thurber. “Spending and Saving in the 104th House of Representatives: A Real Difference or the Power of Institutionalism?” American Political Science Association, San Francisco, September 1996.

Jeff Gill. “The Foundations of a Probabilistic Distribution Theory of Committee Voting Behavior: Addressing the Median Voter Theorem.” Public Choice Society and Economic Science Association, Houston, April 1996.

Jeff Gill and James A. Thurber. “An Analysis of Spending and Saving Behavior in the House of Representatives.” American Political Science Association Annual Meeting, Chicago, September 1995.

## **OTHER CONFERENCE ACTIVITY:**

**Host/Organizer:** Southern Political Science Association Annual Meeting Program Chair; January 11-15, 2017. St. Louis Area Methods Meeting (SLAMM): April 18, 2008; April 24, 2009; April 16-17, 2010, April 15, 2011, April 27, 2012, April 24 2015; 23rd Annual Summer Meeting of the Society for Political Methodology, July 20-22, 2006. University of California, Davis; Southern California Area Methods Program, Spring 1999 Meeting, California Polytechnic State University, SLO.

**Section Head:** Methodology, European Consortium for Political Research Annual Meeting: Reykjavik, Iceland 2011 (With Marco Steenbergen); Public Administration Section, Midwest Political Science Association Annual Meeting: 2009 Methods Section, Midwest Political Science Association Annual Meeting: 2006 Methods Section, Southwestern Political Science Association Annual Meeting: 2002 Methods Section, Midwest Political Science Association Annual Meeting: 2000 (co-head).

**Panel Chair:** “Directional Statistics.” ISBA 2012 World Meeting, Kyoto, Japan, July 3, 2012; “Bayesian Modeling and Its Applications in Social Science.” ISM-APRM Meeting, Tsukuba City, Japan, July 2, 2012; “Bayesian Modeling and Its Applications in Social Science.” ISBA 2012 World Meeting, Kyoto, Japan, June 28, 2012; “Applied Bayesian Methods.” Midwestern Political Science Association Annual Meeting, Chicago, April 24, 2010; “New Frontiers in Political Methodology.” Western Political Science Association Annual Meeting, San Francisco, April 3, 2010; “How Bayesian Methods Make the Study of Latin American Politics Substantially Better.” American Political Science Association Annual Meeting, Toronto, August 5, 2009; “Advances in Studying Elections.” Midwestern Political Science Association Annual Meeting, Chicago, April 5, 2008; “Measuring Stuff.” Southern Political Science Association Annual Meeting, New Orleans, January 12, 2008; “Methods for the Study of Congressional Elections.” Southern Political Science Association Annual Meeting, Savannah, November 2002; “Bayes.” American Political Science Association Annual Meeting, Boston, August 2002; “Methodological Improvements in State Politics and Policy Research.” First Annual State of the States: State Politics and Policy Conference, Texas A&M University, March 2, 2001; “State Bureaucracy: Efficiency, Accountability, and Discretion.” State Politics Section, Southern Political Science Association Annual Meeting, Atlanta, November 2000; “Issues in Estimation and Measurement.” Western Political Science Association Annual Meeting, San Jose, March 2000 (panel organizer); “Visualizing Concepts.” Joint Statistical Meetings, Anaheim, August 1997; “Agenda Setting: What We Know, What We Must Learn.” Southwestern Political Science Association Annual Meeting, New Orleans, March 1997.

**Discussant:** Panel: “Applied Bayesian Methods.” Shorey, Rachel, Hanna Wallach, Frances Zlotnick, and Justin Grimmer (authors), “A Class of Bayesian Nonparametric Topic Models for Measuring Expressed Priorities in Political Texts” Annual Meeting of the Society for Political Methodology, Princeton University, July 28, 2011. Midwestern Political Science Association Annual Meeting, Chicago, April 24, 2010; Panel: “Innovations in the Study of Turnout.” Midwest Science Association Annual Meeting, Chicago, April 2007; Paper: “Higher-Order Markov Models.” David Epstein and Sharyn O’Halloran (authors), Annual Meeting of the Society for Political Methodology, Florida State University, July 2005; Panel: “Bayes.” American Political Science Association Annual Meeting, Boston, August 2002; Panel: “Methodological Advances in Legislative Politics.” Southern Political Science Association Annual Meeting, Atlanta, November 2001; Paper: “Pre-election Polls in Nation and State: A Dynamic Bayesian Hierarchical Model.” Charles Franklin (author), Annual Meeting of the Society for Political Methodology, Emory University, July 2001; Panel: “Advances in Redistricting Analysis.” American Political Science Association Annual Meeting, Washington, DC, September 2000; Paper: “Averaging Over Relevant Considerations: a Statistical Model of the Survey Response.” Simon Jackman (author), Annual Meeting of the Society for Political Methodology, Texas A&M University, July 1999; Panel: “Four Great Papers With Really Crummy Titles.” Midwestern Political Science Association Annual Meeting, Chicago, April 1998; Panel: “Game Theory”, Public Choice Annual Meeting, Houston, March 1995.

**Roundtable:** “20th Anniversary Roundtable Discussion of King, Keohane, and Verba’s *Designing Social Inquiry: Scientific Inference in Qualitative Research*.” American Political Science Association Annual Meeting, August 28-31, 2014. “20th Anniversary Roundtable Panel Tribute to Wood and Waterman’s *Bureaucratic Dynamics: The Role Of Bureaucracy In A Democracy*.” Western Political Science Association Annual Meeting, April 18, 2014. “Statistical Modeling of Injury Severity and Outcomes.” Pediatric Neurocritical Care Outcomes Symposium, Washington University School of Medicine, November 15, 2013. “Social Scientific Methods and the Study of Law.” 2005 Law and Society Annual Meeting, Las Vegas, June 2-5, 2005; “Discussion of Brad Carlin’s Talk on Bayesian Inference.” Annual Meeting of the Society for Political Methodology, University of Minnesota, July 2003; “The Role of Political Consultants in the Contemporary Election Process.” Midwestern Political Science Association Annual Meeting, Chicago, April 1999; “Teaching About Campaigns and Elections.” APSA Short Course. American Political Science Association Annual Meeting, Washington, DC, August 2000.

**Poster:** “Assessing the Impact of Education Public Policies: A Bayesian Hierarchical Model of Resource Allocation.” Midwestern Political Science Association Annual Meeting, Chicago, April 1999; “Generalized Substantively Reweighted Least Squares Regression.” Joint Statistical Meetings, Anaheim, August 1997; “The Median Voter Revisited: A Probabilistic Distribution Theory Alternative.” 12th Annual Political

Methodology Conference, Indiana University, July 1995.

**Program Committee:** 2014 Summer Methods Conference, University of Georgia; 2011 Summer Methods Conference, Princeton University; 2010 Summer Methods Conference, University of Iowa; 2006 Summer Methods Conference, University of California-Davis; 2001 Summer Methods Conference, Emory University.

## GENERAL PROFESSIONAL ACTIVITIES

**Committee Member**, 2015-Present, Bayesian Education Research and Practice Section Founding Committee, International Society for Bayesian Analysis.

**Conference Program Chair**, Southern Political Science Association Annual Meeting, September 1, 2015 to January 13, 2017.

**Vice President Elect**, Southern Political Science Association, January 16, 2015 to January 8, 2016.

**Vice President**, Southern Political Science Association, January, 2016 to January, 2017.

**Officer**, Southern Political Science Association, January, 2017 to January, 2018.

**President Elect**, Southern Political Science Association, January, 2018 to January, 2019.

**President**, Southern Political Science Association, January, 2019 to January, 2020.

Visiting Professor (sabbatical), University of Minnesota, Department of Biostatistics and Department of Political Science, January 2014–May 2014. Taught: Graduate, Bayesian Methods for the Social and Behavioral Sciences,

**Participant**, 2014 [Academic Medical Leadership Development Program for Physicians and Scientists](#), Washington University School of Medicine.

**Committee Member**, 2014 Annual Meeting of the Society for Political Methodology (UGA): Program Committee and Graduate Student Selection Committee.

**Member:** Data Sharing & Management Working Group, Executive and Leadership Group, Transdisciplinary Research in Energetics and Cancer (TREC) Grant. Washington University, School of Medicine, 2011–2017.

**Chair:** Society for Political Methodology, Fellows Nominations Committee, 2013–2015.

**Chair:** Society for Political Methodology, Nomination Committee, 2011–2015.

**Course Master:** Clinical Research Training Center, School of Medicine, July 2009–July 2011.

**Instructor:** Eighth NSF-sponsored *Empirical Implications of Theoretical Models* (EITM). Washington University, June 13–June 24, 2011.

**Instructor:** Workshops on Social Science Research (WSSR), Concordia University, Montreal: “Multilevel Models for the Social Sciences.” May 26–27, 2011. “Bayesian Hierarchical Modeling for the Social Sciences.” June 7–8, 2017. “Bayesian Hierarchical Modeling for the Social Sciences.” May 23–25, 2018.

**Institute Scholar:** Institute for Public Health, Washington University, 2010–present.

**Member:** Society for Political Methodology. Fellows Nomination Committee, 2009–2014. Publications Committee, 2018–2021.

**Instructor:** *Essex Summer School in Social Science Data Analysis and Collection*. Workshop: Hierarchical Model Specification in Quantitative Research. August 4–15 2008; August 10–21 2009; August 9–20 2010; August 6–18, 2012; August 5–16, 2013; July 21–August 15, 2014 (additional second workshop: Survival Models for Social and Epidemiological Science); August 10–August 21, 2015; August 8–August 19, 2016.

**Instructor:** *University of Michigan ICPSR Summer Program in Quantitative Methods of Social Research*. Summer 2001–2007. Workshop: Bayesian Methods for the Social and Behavioral Sciences (4 weeks). Summer 2008. Workshop: Advanced Bayesian Methods (2 weeks). Summer 2009. Workshop: Advanced Bayesian Methods (1 week).

**Section Officer, President:** Society for Political Methodology and APSA Political Methodology Section, 2009–2011.

**Section Officer, Vice-President:** Society for Political Methodology and APSA Political Methodology Section, 2007–2009.

**Section Officer, Member at Large:** Society for Political Methodology and APSA Political Methodology Section, 2000–2004.

**Committee Member:** 2008 Summer Methods Meeting Site Selection.

**Webmaster:** Society for Political Methodology and APSA Political Methodology Section Working Paper Archive, Fall 1998 to Fall 2003.

**Committee Member:** Gosnell Award for the Best Methodology Paper 8/1/01–7/31/02.

**Member:** ICPSR Summer Program Advisory Committee, 2001–2004.

**Steering Committee Member:** Oxford University Spring School in Quantitative Methods for Social Research, 2005–present.

**Consultant:** Midwest Center for Mental Health Services Research, Indiana University, 2005–present.

**Board Member:** American University School of Public Affairs Board of Advisors, 2003–present.

**Board Member:** Academic Board of Advisors for the Center for Congressional and Presidential Studies at American University, 1999–present.

**Associate Director, 1998-2000:** Center for Practical Politics, California Polytechnic State University, SLO. Founder, Principal, 1998-2000: Political Science–Advanced Research Group, California Polytechnic State University, SLO.

**Co-Designer:** (with Micah Altman, Gary King, and William Wei) Harvard-MIT Data Center Web Site, 1998.

**Participant:** Inter-University Program for Political and Social Research, University of Michigan, ICPSR Summer Program in Quantitative Methods, 1994.

**Moderator/Organizer:** Roundtable, "Retrospective on the 2000 Presidential Election, and Implications for the Bush Presidency." University of Florida, Friday, January 19, 2001.

**Panelist/Chair/Organizer:** Roundtable on the Politics of the Death Penalty, May 24, 1999 (at California Polytechnic State University, SLO).

**Journal Manuscript Reviewer:** *American Journal of Political Science*, *American Political Science Review*, *American Politics Quarterly/Review*, *American Statistician*, *Annals of Applied Statistics*, *Biometrics*, *Columbian Journal of Statistics*, *Communications in Statistics-Theory and Methods*, *Computational Statistics*, *Educational Evaluation and Policy Analysis*, *European Union Politics*, *International Journal of Public Administration*, *Journal of Conflict Resolution*, *Journal of Law, Economics, and Organization*, *Journal of Peace Research*, *Journal of Politics*, *Journal of Public Administration Research and Theory*, *Journal of the American Statistical Association*, *Legislative Studies Quarterly*, *Nationalism and Ethnic Politics*, *Political Analysis*, *Political Behavior*, *Political Science*, *Research Methods*, *Political Research Quarterly*, *Psychological Methods*, *Psychometrika*, *Public Administration Review*, *R-News*, *Sociological Methods*, *Sociological Methods and Research*, *State Politics and Policy Quarterly*, *Statistical Methodology*, *Statistical Science*, *Statistics and Computing*, *Zeitschrift für Psychologie/Journal of Psychology*.

**Book Manuscript Reviewer:** *Brookings Institution Press*, *Cambridge University Press*, *Chapman & Hall/CRC*, *CQ Press*, *Sage*, *SUNY Press*, *John Wiley & Sons*, *Oxford University Press*.

**Chapter Manuscript Reviewer:** *Encyclopedia of Social Measurement*, *Encyclopedia of Social Science Research Methods*.

**Grant Proposal Reviewer:** *National Science Foundation*, Methodology Measurement and Statistics, Political Science, Statistics, Mathematical Social and Behavioral Sciences, Information Integration and Informatics (individual proposal reviews and panel member), *National Institutes of Health Grant reviewer*, *BMRD study section (2017, 2018)*, *European Research Council*.

**Current Member:** Society for Political Methodology, Southern Political Science Association, American Statistical Association, International Society for Bayesian Analysis, American Association for Public Opinion Research..

**Software Written for Public Distribution:** CRAN Package, *Krige*: implements Bayesian kriging with spatial data (with Jason Byers and James Monogan); CRAN Package, *GLMpack*: models and routines from the book *Generalized Linear Models*; CRAN Package, *hot.deck*: Performs multiple hot-deck imputation of categorical and continuous variables in a data frame (with Skyler Cranmer, Natalie Jackson, Andreas Murr, Dave Armstrong). CRAN Package, *glmDM*: code for Dirichlet process priors with ordinal outcomes and other GLMs (with George Casella); CRAN Package, *BaM*: Bayesian modeling; CRAN Package, *accuracy*: Tools for testing and improving accuracy of statistical results. (with Micah Altman and Michael P. McDonald); S-Plus/R code for Markov chain tempered transitions (with George Casella); S-Plus/R code for: Importance Sampling, GSRLS/SWLS procedures, and generating multivariate normals; C Language Source code for Building Survey Subsets; Gauss code for: the Gill-Murray generalized Cholesky Decomposition, and the Schnabel-Eskow generalized Cholesky Decomposition.

## INSTITUTIONAL SERVICE

**American University:** Co-Director, Masters in Data Science Program, 2018–Present, School of Public Affairs, Academic Integrity/Grievance Committee 2018-2020, Department of Mathematics and Statistics Rank and Tenure Committee, Search Committee member in the Department of Mathematics and Statistics 2018-2019, Provost Data Science Committee Co-Chair Spring ‘2018, Kogod School of Business Chaired Professor Review Fall 2017, Fellow of the Center for Congressional and Presidential Studies (CCPS) 2017–Present, School of Public Affairs Faculty Merit Task Force Member 2017–Present.

**Washington University:** Committee Chair, Search Committee for Statistician, (Department of Mathematics), 2014-2015. Committee Member, Arts & Science ad hoc Committee on Big Data, Spring 2014-2015. Committee Member, BJHF/ICTS Proposal Review Study Section, 2014. Committee Member, Steering Committee, Center for Administrative Data Research (CADR), 2011-Currently. Committee Member, Search Committee, (Department of Genetics), Spring 2013. Committee Member, Search Committee for Junior Statistician, (Department of Mathematics), Fall 2013. Committee Member, Search Committee, (Department of Electrical and Systems Engineering), 2012-2013. Committee Member, Search Committee for three lines in American Politics (Political Science Department), Fall 2011. Chair, Search Committee for Junior Methodologist (Center for Applied Statistics and Political Science Department), Fall 2010. Chair, Search Committee for Junior Statistician (Center for Applied Statistics and Mathematics Department), Spring 2010. Faculty Associate (Course Master), Clinical Research Training Center, School of Medicine, 2009-2011. Member, Arts & Sciences Computer Science Bachelors Degree Working Group, 2009-2010. Member, Public Health Curriculum Committee, School of Medicine, 2008-2010. Member, Public Health Curriculum Committee, Brown School of Social Work, 2008-2010. Member, Data Workgroup, Institute for Public Health, 2010-Currently. Member, Data Core Leadership Team, Institute for Public Health, 2009-Currently. Member, Biostatistics Curriculum Committee, 2008-Currently. Member, Search Committee for Senior Statistician (Mathematics Department), 2008-2009. Member, University Committee on Faculty Pay Equity, 2009-2010. Co-Chair, Center for Applied Statistics/Department of Education Search Committee, 2007-2008, 2008-2009. Board Member, Center for Programs, 2007-2010. Chair, Graduate Methods Field in Political Science, 2007-2013, 2015. Ph.D. Dissertation Committee Member for: Gordon Arsenoff, Chia-yi Lee, Amanda Driscoll, Morgan Hazelton, Yael Shomer, Xiao Huang, Ruibin Xi, Qing Li, Michael Malecki, Drew Lewis, Rachael Hinkle, Xiao Huang.

**University of California, Davis:** Chair, Methods Search Committee, 2005. Chair, Graduate Methods Field, 2004-2006. Graduate Admissions Committee, 2004. Infrastructure Committee, 2004-2006. ICPSR Funding Committee (IGA), 2004-2006. Advisory Committee, Center on Quantitative Social Science Research, 2004-2006. Advisory Committee, Institute for Governmental Affairs, 2004-2006. Letters and



Science College Assembly Elected Representative, 2004-2007. Ad Hoc Committee Summer Fellowship Review Committee, 2005. Ph.D. dissertation committees (completed): Skyler Cranmer (UCD Political Science, chair), Michelle Norris (UCD Statistics), Chris Barker (UCD Entomology), Rebecca Garabed (UCD Epidemiology).

**University of Florida:** Chair, Department Methodology Field Committee, 2000-2003. Director, Data Lab, 2003. Chair, Speakers Committee, 2001-2002. Graduate Recruitment and Stipends Committee, 2000-2003. Best Graduate Paper Award Committee, 2000-2001. Ad Hoc Committee on Sources of External Funding, 2002. Political Science Department Librarian, 2001-2003. Chair, Department Computer Committee, 2003. Department American Politics Field Committee, 2000-20003. Department Behavior Field Committee, 2000-20003. Department Public Administration and Public Policy Field Committee, 2000-20003. ICPSR Official Representative for the Florida Consortium for Political Research, 20003. Ad Hoc Committee on Research Assistant Assignments, 2003. College Committee to Create a Graduate Certificate in Social Science Methodology, 2003.

**California Polytechnic State University, SLO:** Chair, College of Liberal Arts Technology Committee, 1998-2000. Research and Professional Development Committee, 1998-2000. Instructional Advisory Computing Committee, 1998-2000. University Scholarship Committee, 1997. Campus Fee Advisory Committee, 1998. Masters of Public Policy Program Committee, 1996-2000. Co-founder: Applied Social Research Colloquia, 1998. CSU Student Research Conference Planning Committee, 1998. American Politics Curriculum Committee, 1996-2000. Information Technology Services Hiring Committee, 1999.

## **CURRENT GRADUATE STUDENTS, POSTDOCTORAL FELLOWS, AND MENTEES**

Simon Heuberger, PhD student, American University Government (chair).

## **PHD STUDENTS and POSTDOCTORAL FELLOWS PLACED IN FACULTY AND RESEARCH POSITIONS**

Michelle Torres, PhD student Washington University Political Science (co-chair). PLACED: Assistant Professor at Rice University Department of Political Science.

Jonathon Homola, PhD student Washington University Political Science (co-chair). PLACED: Assistant Professor at Rice University Department of Political Science.

David Carlson, PhD student, Washington University Political Science (committee member). PLACED: Assistant Professor at Koch University Department of Political Science.

Amy Wilfert PhD, Washington University, Human and Statistical Genetics PhD Program (dissertation committee member). PLACED: post-doctoral research fellow at the University of Washington, Department of Genome Sciences.

Taeyong Park PhD, Washington University, Department of Political Science (chair). PLACED: Carnegie Mellon University–Doha.

Seth Strobe MD, Washington University, Department of Urology (oversight committee mentor). PLACED: MD Anderson Hospital, Jacksonvill, FL.

Moritz Marbach PhD, Department of Political Science and the Graduate School of Economic and Social Sciences at the University of Mannheim (committee member). PLACED: Postdoctoral Researcher Stanford University.

Jung Ae Lee PhD, Washington University, Department of Surgery. PLACED: Assistant Professor at the University of Arkansas (postdoc supervisor).

Reza Jafarzadeh PhD, Washington University, Division of Infectious Diseases, Department of Medicine (postdoctoral fellow mentoring committee member). PLACED: Assistant Professor at Boston University School of Medicine.

Carlos Alfonso Quilala Santos MD, Washington University, Department of Infectious Diseases (KL2 oversight committee member). PLACED: Rush Medical College.

Chia-yi Lee PhD, Washington University, Department of Political Science (committee member). PLACED: Postdoctoral Fellow, Academia Sinica. Now Assistant Professor, S. Rajaratnam School of International Studies, Nanyang Technological University in Singapore.

Tsung-han Tsai PhD, Washington University, Department of Political Science (chair). PLACED: Assistant Professor, National Chengchi University.

Jennifer Jolley PhD, Washington University, Brown School of Social Work (committee member). PLACED: Post-Doctoral NIMH Fellow, UNC-Chapel Hill.

Jihyun Song PhD, Washington University, Department of Surgery (postdoctoral research supervisor). PLACED: Adjunct Professor, New York Institute of Technology.

Andrew Womack PhD, Washington University, Department of Mathematics (chair). PLACED: Postdoctoral Fellow, University of Florida, College of Agriculture and Life Sciences (chair). Now Assistant Professor at Indiana University Department of Statistics.

Drew Lewis PhD, Washington University, Department of Mathematics (committee member). PLACED: Assistant Professor, Department of Mathematics, University of Alabama.

Dominik Hangartner PhD, Bern University (co-chair). PLACED: Assistant Professor, London School of Economics. Now Associate Professor at ETH Zurich.

Minjung Kyung PhD, Assistant Professor. (post-doc supervisor with George Casella). PLACED: Center for Applied Statistics and Department of Mathematics, Washington University, Fall 2010. Now at Duksung Women's College.

James E. Monogan III PhD (postdoc supervisor). PLACED: Assistant (now Associate) Professor, University of Georgia, Department of Political Science, Spring 2011 (Postdoc Supervisor).

Xun Pang PhD, Assistant Professor (co-chair with Andrew Martin). PLACED: Princeton University, Department of Politics, Fall 2010. Now tenured full professor at Tsinghua University in Beijing.

Justin Gross PhD (committee member). PLACED: Assistant Professor, Department of Political Science, University of North Carolina, Chapel Hill. Now University of Massachusetts Amherst.

Ruibin Xi PhD, Postdoctoral Fellow (committee member). PLACED: Harvard Medical School, Fall 2009. Now Beijing University.

Benjamin E. Alexander-Eitzman PhD, Washington University, Brown School of Social Work (committee member). PLACED: Assistant Professor, Appalachian State University, School of Social Work, Fall 2009.

Skyler Cranmer PhD, Assistant Professor (PhD chair). PLACED: Department of Political Science, University of North Carolina, Chapel Hill, Fall 2008 (chair). Now Endowed Associate Professor at Ohio State University.

Ryan Bakker PhD, University of Florida, Department of Political Science (committee member at UNC-CH). PLACED: Associate Professor, Department of Political Science, University of Georgia, Winter 2008.

Lee Walker PhD, University of Florida, Department of Political Science (supervisor). PLACED: University of Kentucky, Department of Political Science. Now Associate Professor, Department of Political Science, University of North Texas.

## **PHD STUDENTS and POSTDOCTORAL FELLOWS PLACED IN CORPORATE POSITIONS**

Adriana Crespo-Tenorio. PhD student Washington University Political Science (chair). PLACED: New York Times. Now Facebook.

## COURSES TAUGHT

**American University.** Graduate: Bayesian Statistics.

**Washington University.** Graduate: Maximum Likelihood (Arts & Sciences), Hierarchical Model Specifications (School of Medicine, Arts & Sciences), Statistics for Medical and Public Health Researchers (School of Medicine, housed in the Department of Mathematics), Essential Statistics for Surgery Residents (School of Medicine), Biostatistics R Primer (School of Medicine), Department of Surgery R Primer (School of Medicine).

**Harvard University.** Bayesian Hierarchical Models (graduate, Fall 2006), Statistical Computing for the Social Sciences (graduate, Spring 2007), Quantitative Analysis of American Politics (undergraduate, Spring 2007), Government 61: Research Practice in Quantitative Methods (Spring 2018), Government 2003: Bayesian Hierarchical Models (graduate, Spring 2018).

**University of California, Davis.** Graduate: Statistical Computing, Bayesian Methods, Maximum Likelihood. Undergraduate: Research Methods in Political Science, Administrative Organization and Bureaucracy.

**University of Florida.** Graduate: Linear Models, Maximum Likelihood, Bayesian Methods for the Social and Behavioral Sciences, Generalized Linear Models (Department of Statistics), Administrative Theory. Undergraduate: Administrative Organization and Bureaucracy, Honors Research Methods, Honors American Government.

**California Polytechnic State University, SLO.** Graduate: Basic Statistics for Masters Students. Undergraduate: Political Analysis, Theory of Administration, Public Budgeting, Intermediate Political Analysis, American Government, Statistical Computing (Department of Statistics), Introduction to Statistics (for engineering majors), Introduction to Statistics (for social science majors), Introduction to Statistics (general).

**American University** (as a graduate student). Finite Mathematics, Basic Statistics (Department of Mathematics & Statistics), Master's Program Statistics Requirement (Department of Government).

## CURRENT RESEARCH INTERESTS

**Methodology and Statistics:** Bayesian approaches, Markov chain Monte Carlo, queueing theory, non-parametrics, missing data, generalized linear model theory, model selection, circular data, model-based clustering, and general problems in statistical computing.

**Epidemiology:** mental health outcomes for children exposed to war, foot-and-mouth disease, containment policy, accurate modeling with accelerometer data, and measurement/data issues.

**Medicine:** pediatric traumatic brain injury, linkages between obesity and cancer (including human energetics and mouse models), the effect of chronodisruption on preterm birth, blood conservation in children, circulation.

**Political Science:** voting, terrorism, Scottish politics, expert elicitation, bureaucracy.