James Marshall Flegal

CONTACT INFORMATION	Department of Statistics University of California, Riverside 1428 Olmsted Hall Riverside, CA 92521	Voice: (951) 827-2247 Fax: (951) 827-3286 jflegal@ucr.edu www.faculty.ucr.edu/~jflegal/

RESEARCH INTERESTS

Statistical computing, Markov chain Monte Carlo methodology, Bayesian statistical methods, Monte Carlo standard errors, perfect sampling

EDUCATION

University of Minnesota, Minneapolis, MN

Ph.D. Statistics, 2008
- Dissertation Title: *Monte Carlo Standard Errors for Markov Chain Monte Carlo*
- Adviser: Galin L. Jones; Co-Adviser: Glen Meeden
- Clarence L. Remynse Scholarship, 2003–2007

Northwestern University, Evanston, IL

B.S. Mechanical Engineering, 1999
- Clarence L. Remynse Scholarship, 1996–1999

EXPERIENCE

University of California, Riverside, CA

Associate Professor, Department of Statistics	since July 2015
Assistant Professor, Department of Statistics	July 2008–June 2015
Institute for Integrative Genome Biology (IIGB)	since July 2008
Data Science Center (DiSCoveR)	since December 2016

Caterpillar, Raleigh, NC

Design Engineer	September 2000–December 2002

Continental Research & Engineering, Denver, CO

Research Engineer & Analyst	September 1999–September 2000

RESEARCH GRANTS

Principal Investigator, National Science Foundation (NSF-DMS, Statistics), "Collaborative research: Developing a theoretical and methodological framework for high-dimensional Markov chain Monte Carlo," 2013-2016, $99,998.

Principal Investigator, University of California, Riverside (UCR Regents Faculty Fellowship), "A sequential stopping rule for high-dimensional Markov chain Monte Carlo," 2014-2015, $6,000.

Other Professional, National Aeronautics and Space Administration (NASA MIRO FIELDS), "Fellowships and Internships in Extremely Large Data Sets (FIELDS): A Training and Research Program in Big Data and Visualization" (PI B. Mobasher, Physics and Astronomy), 2015-2020, $4,444,837. (Includes yearlong support for Jianan Hui working under my supervision.)

Principal Investigator, University of California, Office of the President (Innovative Learning Technology Initiative), "Online Instruction for Introduction to Statistics - STAT 100AB," 2018-2023, $210,000.

Refereed Publications

Flegal, J. M.[†], Haran, M. and Jones, G. L. (2008). Markov chain Monte Carlo: Can we trust the third significant figure? *Statistical Science*, Vol. **23**, No. 2, 250–260.

Flegal, J. M.[†] and Jones, G. L. (2010). Batch Means and spectral variance estimators in Markov chain Monte Carlo, *The Annals of Statistics*, Vol. **38**, No. 2, 1034–1070.

Flegal, J. M.[†] and Jones, G. L. (2011). Implementing Markov chain Monte Carlo: Estimating with confidence, *Handbook of Markov Chain Monte Carlo*, Editors, Brooks, S.P., Gelman, A.E., Jones, G.L., and Meng, X.L., Chapman & Hall/CRC Press, 175–197.

Flegal, J. M. (2012). Applicability of subsampling bootstrap methods in Markov chain Monte Carlo, *Monte Carlo and Quasi-Monte Carlo Methods 2010*, Editors, Wozniakowski, H. and Plaskota, L., Springer Proceedings in Mathematics & Statistics, **23**, 363–372.

Flegal, J. M.[†] and Herbei, R. (2012). Exact sampling for intractable probability distributions via a Bernoulli factory, *Electronic Journal of Statistics*, Vol. **6**, 10–37.

Spindler, S. R., Mote, P. L., **Flegal, J. M.** and Teter, B. (2013). Influence on longevity of blueberry, cinnamon, green and black tea, pomegranate, sesame, curcumin, morin, Pycnogenol, quercetin and taxifolin fed isocalorically to long-lived, outcrossed mice, *Rejuvenation Research*, Vol. **16(2)**, 143–151.

Spindler, S. R., Mote, P. L., Li, R., Dhahbi, J. M., Yamakawa, A., **Flegal, J. M.**, Jeske, D. R. and Lublin, A. L. (2013). β1-adrenergic receptor blockade with metoprolol or nebivolol extends the lifespan of *Drosophila* and long-lived mice, *AGE (Journal of the American Aging Association)*, Vol. **35**, No. 6, 2099–2109.

Doss, C. R., **Flegal, J. M.**[†], Jones, G. L. and Neath, R. C. (2014). Markov chain Monte Carlo estimation of quantiles, *Electronic Journal of Statistics*, Vol. **8**, 2448-2478.

Jeske, D. R., **Flegal, J. M.** and Spindler, S. R. (2014). Minimum size survival analysis sampling plans for comparing multiple treatment groups to a single control group, *Communications in Statistics, Theory and Methods*, Vol. **43**, No. 13, 2689–2701.

Johnson, A. A. and **Flegal, J. M.** (2014). A modified conditional Metropolis-Hastings sampler, *Computational Statistics & Data Analysis*, Vol. **78**, 141–152.

Spindler, S. R., Mote, P. L. and **Flegal, J. M.** (2014). Lifespan effects of simple and complex nutraceutical combinations fed isocalorically to mice, *AGE (Journal of the American Aging Association)*, Vol. **36**, No. 2, 705–718.

Spindler, S. R., Mote, P. L. and **Flegal, J. M.** (2014). Dietary supplementation with krill oil and Lovaza shortens the lifespan of long-lived F1 mice, *AGE (Journal of the American Aging Association)*, Vol. **36**, No. 3, 1345–1352.

Flegal, J. M.[†] and Gong, L.[§] (2015). Relative fixed-width stopping rules for Markov chain Monte Carlo simulations, *Statistica Sinica*, Vol. **25**, 655–676.

Spindler, S. R., Mote, P. L. Lublin, A. A., **Flegal, J. M.**, Dhahbi, J. M. and Li, R. (2015). Nordihydroguaiaretic acid extends the lifespan of *Drosophila* and mice, increases mortality-related tumors and hemorrhagic diathesis, and alters energy homeostasis in mice, *Journal of Gerontology: Biological Sciences*, Vol. **70**, 1479–1489.

[†]Corresponding author.
[§]PhD student under my supervision.

Gong, L.[§] and **Flegal, J. M.** (2016). A practical sequential stopping rule for high-dimensional Markov chain Monte Carlo, *Journal of Computational and Graphical Statistics* Vol. **25**, 684–700. (Winner of a 2014 student paper award from the Section on Bayesian Statistical Sciences.)

Spindler, S. R., Mote, P. L. and **Flegal, J. M.** (2016). Combined statin and angiotensin converting enzyme (ACE) inhibitor treatment increases the lifespan of long-lived F1 male mice. *AGE (Journal of the American Aging Association)* Vol. **38**, 379–391.

Crackel, R.[§] and **Flegal, J. M.**[†] (2017). Bayesian inference for a flexible class of bivariate beta distributions, *Journal of Statistical Computation and Simulation* Vol. **87**, 295–312.

Hui, J.[§], Aragon, M., Cui, X. and **Flegal, J. M.** (2018). A machine learning approach to galaxy-LSS classification I: Imprints on halo merger trees. *Monthly Notices of the Royal Astronomical Society (MNRAS)* Vol. **475**, 4494–4503.

Park, I. W., Hooper, J., **Flegal, J. M.**, and Jenerette, G. D. (2018). Impacts of climate, disturbance, and topography on distribution of herbaceous cover in Southern California chaparral: Insights from a remote sensing method. *Diversity & Distributions* Vol. **24**, 497–508.

Roy, V., Tan, A., and **Flegal, J. M.** (2018). Estimating standard errors for importance sampling estimators with multiple Markov chains. *Statistica Sinica* Vol. **28**, 1079–1101.

Vats, D., **Flegal, J. M.**, and Jones, G. L. (2018). Strong consistency of multivariate spectral variance estimators in Markov chain Monte Carlo. *Bernoulli* Vol. **24**, 1860–1909.

Liu, Y.[§] and **Flegal, J. M.**[†] (2018+). Weighted batch means estimators in Markov chain Monte Carlo. *Electronic Journal of Statistics* (to appear).

Vats, D., **Flegal, J. M.**, and Jones, G. L. (2018+). Multivariate output analysis for Markov chain Monte Carlo. *Biometrika* (to appear).

SUBMITTED PAPERS

Le, N. X. T., Rivas, R. **Flegal, J. M.**, and Hristidis, V. (2017). Targeted solicitation of product reviews. Submitted to *ACM International Conference on Information and Knowledge Management (CIKM 2018)*.

Liu, Y.[§] and **Flegal, J. M.**[†] (2018). Optimal mean squared error bandwidth for spectral variance estimators in MCMC simulations. Submitted to *Journal of Multivariate Analysis*.

Vats, D. and **Flegal, J. M.** (2018). Lugsail lag windows and their application to MCMC. Submitted to *Journal of the American Statistical Association (Theory and Methods)*.

SOFTWARE

`mcmcse`: **Flegal, J. M.**, Hughes, J., Vats, D. and Dai, N.. Calculates standard errors for estimators based on Markov chain Monte Carlo simulations. Version 1.3-2 available from `CRAN`.

BOOK REVIEWS

Statistical Thinking in Sports by Jim Albert and Ruud H. Koning (eds) (2009), *Technometrics*, Vol. **51**, No. 1, 106.

A Second Course in Statistics: Regression Analysis, 7th Edition by William Mendenhall and Terry Sincich (2014), *The American Statistician*, Vol. **68**, No. 3, 212.

Learning Base R by Lawrence M. Leemis (2016), *The American Statistician*, Vol. **70**, No. 3, 315.

Modeling and Analysis of Stochastic Systems, Third Edition by Vidyadhar G. Kulkarni (2017), *Journal of the American Statistical Association* Vol. **112**, 1780.

Practical Bayesian Inference: A Primer for Physical Scientists by Coryn A. L. Bailer-Jones (2018), *The American Statistician* (to appear).

Probability with Applications in Engineering, Science, and Technology, Second Edition by Matthew A. Carlton and Jay L. Devore (2018), *The American Statistician* (to appear).

INVITED PRESENTATIONS

"Multivariate output analysis for MCMC," April 7, 2018, Statistics, Monte Carlo, and So Much More: A Conference in Honor of Charlie Geyer, Minneapolis, MN.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," November 2, 2013, AMS Western Section Meeting, Riverside, CA.

"Quantile Estimation via Markov Chain Monte Carlo," June 27, 2012, ISBA 2012 World Meeting, Kyoto, JAPAN.

"MCMC: Can We Trust the Third Significant Figure?," June 6, 2012, 29th Quality and Productivity Research Conference, Long Beach, CA.

"Exact sampling for intractable probability distributions via a Bernoulli factory," February 14, 2012, 10th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Sydney, AUSTRALIA.

"Exact sampling for intractable probability distributions via a Bernoulli factory," December 29, 2011, Statistical Concepts and Methods for the Modern World, Colombo, SRI LANKA.

"MCMC: Can We Trust the Third Significant Figure?," July 28, 2009, 12th North American Meeting of New Researchers in Statistics and Probability, Baltimore, MD.

CONTRIBUTED PRESENTATIONS

"Multivariate output analysis for MCMC," August 1, 2018, Joint Statistical Meetings, Vancouver, BC, CANADA.

"A practical sequential stopping rule for high-dimensional MCMC," topic contributed, January 5, 2016, MCMSki6 2016, Lenzerheide, SWITZERLAND.

"Relative fixed-width stopping rules for high-dimensional MCMC," topic contributed, August 12 2015, Joint Statistical Meetings, Seattle, WA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," topic contributed, August 5, 2013, Joint Statistical Meetings, Montreal, QC, CANADA.

"Exact sampling for intractable probability distributions via a Bernoulli factory," August 3, 2011, Joint Statistical Meetings, Miami, FL.

"Exact sampling for intractable probability distributions via a Bernoulli factory," poster (recognized as **Outstanding Young Investigator Poster**), January 5, 2011,

MCMSki3 2011, Park City, UT.

"Quantile estimation via Markov chain Monte Carlo," August 18, 2010, 9th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Warsaw, POLAND.

"Quantile estimation via Markov chain Monte Carlo," August 11, 2010, 73rd Annual Meeting of the Institute of Mathematical Statistics, Gothenburg, SWEDEN.

"Quantile estimation via Markov chain Monte Carlo," August 3, 2010, Joint Statistical Meetings, Vancouver, BC, CANADA.

"Batch Means and Spectral Variance Estimators in MCMC," August 6, 2009, Joint Statistical Meetings, Washington D.C..

"Spectral Variance Estimators in Markov Chain Monte Carlo," poster, January 8, 2008, Adap'Ski 08, Bormio, ITALY.

"Using Subsampling in Markov Chain Monte Carlo," August 1, 2007, Joint Statistical Meetings, Salt Lake City, UT.

DEPARTMENT
SEMINARS

"Multivariate output analysis for MCMC," December 8, 2017, Data Science Seminar Series, University of California, Riverside, CA.

"Multivariate output analysis for MCMC," November 9, 2017, Department of Statistics, University of California, Irvine, CA.

"Multivariate output analysis for MCMC," September 6, 2017, Department of Mathematics and Statistics, San Diego State University, San Diego, CA.

"A practical sequential stopping rule for high-dimensional MCMC," April 5, 2017, Department of Biostatistics, University of California, Los Angeles, CA.

"A practical sequential stopping rule for high-dimensional MCMC," February 1, 2016, Department of Statistics, Indiana University, Bloomington, IN.

"A practical sequential stopping rule for high-dimensional MCMC," January 22, 2016, School of Mathematical and Statistical Sciences, Arizona State University, Tempe, AZ.

"A practical sequential stopping rule for high-dimensional MCMC," December 15, 2015, Department of Applied and Computational Mathematics and Statistics, University of Notre Dame, Notre Dame, IN.

"A practical sequential stopping rule for high-dimensional MCMC," November 12, 2015, Applied Statistics Group, Lawrence Livermore National Laboratory, Livermore, CA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," December 5, 2014, Department of Economics, University of California, Riverside, CA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," November 14, 2014, Department of Mathematical Sciences, University of Nevada, Las Vegas, NV.

"MCMC: Can We Trust the Third Significant Figure?," October 28, 2014, Department of Statistics, University of California, Riverside, CA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," October, 2014, Department of Statistics, National Cheng-Kung University, Tainan City, TAIWAN.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," April 14, 2014, Department of Statistics, Iowa State University, Ames, IA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," November 21, 2013, Department of Statistics, University of California, Davis, CA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," September 18, 2013, Department of Mathematics and Statistics, San Diego State University, San Diego, CA.

"Relative fixed-width stopping rules for Markov chain Monte Carlo simulations," November 13, 2012, Department of Statistics, University of California, Riverside, CA.

"MCMC: Can We Trust the Third Significant Figure?," September 13, 2012, RAND Statistics Group, RAND Corporation, Santa Monica, CA.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," April 23, 2012, Department of Electrical Engineering, University of California, Riverside, CA.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," October 12, 2011, Department of Biostatistics, Johns Hopkins University, Baltimore, MD.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," October 5, 2011, Department of Biostatistics, University of California, Los Angeles, CA.

"MCMC: Can We Trust the Third Significant Figure?," September 14, 2011, Department of Mathematics and Statistics, San Diego State University, San Diego, CA.

"Exact sampling for intractable probability distributions via a Bernoulli factory," February 8, 2011, Department of Statistics, University of California, Los Angeles, CA.

"Exact sampling for intractable probability distributions via a Bernoulli factory," January 25, 2011, Department of Statistics, University of California, Riverside, CA.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," November 5, 2010, Department of Mathematics, University of Southern California, Los Angeles, CA.

"MCMC: Can We Trust the Third Significant Figure?," July 22, 2010, Department of Mathematics, Claremont McKenna College, Claremont, CA.

"Statistical Methods from Tolerance Stackups to the PGA Tour," May 5, 2010, Honors Program First-Year Colloquium, University of California, Riverside, CA.

"MCMC: Can We Trust the Third Significant Figure?," April 23, 2010, Department of Mathematics, California State University, Fullerton, CA.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," April 1, 2010, Department of Statistics, The Ohio State University, Columbus, OH.

"Expectation and Quantile Estimation via Markov Chain Monte Carlo," January 25, 2010, Department of Statistics, University of California, Irvine, CA.

"Batch Means and Spectral Variance Estimators in MCMC," November 5, 2009, Department of Statistics, University of Florida, Gainesville, FL.

"Batch Means and Spectral Variance Estimators in MCMC," October 29, 2009, Department of Statistics, University of California, Davis, CA.

"Batch Means and Spectral Variance Estimators in MCMC," August 21, 2009, School of Mathematics & Statistics, University of New South Wales, Sydney, AUSTRALIA.

"Evaluating Uncertainty for Expectations and Quantiles in MCMC," March 24, 2009, Department of Economics, University of Modena e Reggio Emilia, Modena, ITALY.

"MCMC: Can We Trust the Third Significant Figure?," February 6, 2009, Department of Economics, University of California, Riverside, CA.

Short Courses "DSSI Seminar Series - Markov Chain Monte Carlo Methods in Statistics", July 11-20, 2018, Data Science Summer Institute Program at Lawrence Livermore National Laboratory, Livermore, CA.

"BMSC 254: Statistics," October 6, 2017, Biomedical Sciences Graduate Student Seminar, Riverside, CA.

"BMSC 254: Statistics," October 28, 2016, Biomedical Sciences Graduate Student Seminar, Riverside, CA.

"Statistics for Data Scientists," February 12, 2016, Data Science Workshop for University of California, Riverside and NASA Jet Propulsion Laboratory, Riverside, CA.

Travel Grants UCR Academic Senate travel support for Joint Statistical Meeting, August 2018, Vancouver, BC, CANADA.

UCR Academic Senate travel support for Statistics, Monte Carlo, and So Much More: A Conference in Honor of Charlie Geyer, April 2018, Minneapolis, MN.

UCR Academic Senate travel support for MCMSki, January 2016, Lenzerheide, SWITZERLAND.

Travel support for Interdisciplinary Approaches to Biomedical Data Science Challenges: SAMSI Ideas Lab, July 2015, Research Triangle Park, NC.

UCR Academic Senate travel support for Joint Statistical Meeting, August 2013, Montreal, QC, CANADA.

Travel support for CBMS Regional Conference in the Mathematical Sciences on Model Uncertainty and Multiplicity, July 2012, Santa Cruz, CA.

Travel support for Joint Mathematical Meetings, January 2010, San Francisco, CA.

Travel support for 12th North American Meeting of New Researchers in Statistics and Probability, July 2009, Baltimore, MD.

Travel support for AMS Mathematics Research Communities Conference on Modern Markov Chains and their Statistical Applications, June 2009, Snowbird, UT.

Travel support for "MCMSki": Markov chain Monte Carlo in Theory and Practice, January 2008, Bormio, ITALY.

Travel support for DIMACS Workshop: Markov Chain Monte Carlo: Synthesizing Theory and Practice, June 2007, Rutgers, NJ.

INSTRUCTION	**University of California**, Riverside, CA	

NASC 93[‡] *Statistics in Popular Culture* — Fall 2014, 2018

STAT 155 *Probability and Statistics for Science and Engineering* — Fall 2010

STAT 160A *Elements of Probability and Statistical Theory*
Fall 2008, 2009, 2011, 2012, 2013, 2014

STAT 160B *Elements of Probability and Statistical Theory*
Winter 2009, 2010, 2011, 2012, 2013, 2014, 2015

STAT 160C *Elements of Probability and Statistical Theory*
Spring 2012, 2015, 2016

STAT 203A *Bayesian Statistics I* — Winter 2009, 2018

STAT 206[‡] *Statistical Computing* — Fall 2016, 2017, 2018

STAT 207[‡] *Advanced Statistical Computing* — Spring 2015, Winter 2016, 2017, 2018

STAT 210C *Theoretical Statistics and Probability* — Spring 2011

STAT 215 *Stochastic Processes* — Spring 2010, 2012, 2014, 2016, 2017, 2018

STAT 288 *Literature Seminar* — Fall 2010, 2013

University of Minnesota, Minneapolis, MN

STAT 3011 *Introduction to Statistical Analysis*
Fall 2005, 2006, 2007, Spring 2007, 2008, Summer 2007

PHD STUDENTS	Jinhui Yang, 2017-Current, "Confidence bands for MCMC output analysis".

Deepak Bastola, 2017-Current, "Component-wise Markov chain Monte Carlo algorithms in astrostatistics".

Nathan Robertson, 2016-Current, "Multivariate Bayesian modeling based on generalized linear models".

Jianan Hui, July 2017, "Methods in Markov chain Monte Carlo and spatiotemporal data analysis." First Position: Senior Biostatistician at Boehringer Ingelheim.

Ying Liu, March 2017, "Optimal variance estimation for a multivariate Markov chain central limit theorem." First Position: Research Associate at Harvard T.H. Chan School of Public Health.

Lei Gong, August 2015, "Fixed-width stopping procedures for Markov chain Monte Carlo." First Position: Data Scientist at Thumbtack, Inc.

Roberto Crackel, January 2015, "Likelihood free inference for a flexible class of bivariate beta distributions." First Position: Mathematical Statistician at U.S. Food and Drug Administration.

OTHER MENTORING	Lauren Perry (Honors Thesis Adviser), 2015-2016

[‡]Proposed and developed course.

Summer Research Experience for Undergraduates: Jacqueline Banks (2010), Calvin Ericson (2011), Harry Mak (2011)

Dissertation Committee: Matthew Arvanitis, Xiaohong Che, Roberto Crackel, Elijah DePalma, Yingzhuo Fu, Chen Gao, Lei Gong, Anne Hansen, Fei He, Jianan Hui, Michael Izbicki (Computer Science), Ying Liu, Monobina Mukherjee (Environmental Science), Nathan Robertson, Sakar Sigdel, Yuhua Xiong (Environmental Science), Cheng-Hsueh Yang

Oral Examination Committee: Matthew Arvanitis, Deepak Bastola, Scott Benecke, Ashley Cacho, Roberto Crackel, Elijah DePalma, Chen Gao, Lei Gong, Anne Hansen, Fei He, Chengkuan Hong (Computer Science), Luke Klein, Huiling Liu, Yiming Ma (Electrical Engineering), Hua Peng, Luyao Peng, Nathan Robertson, Sakar Sigdel, Yuhua Xiong (Environmental Science), Cheng-Hsueh Yang, Jinhui Yang, Xiaoyang Zhou

EDITORIAL
ACTIVITIES

Associate Editor for *Journal of the American Statistical Association*   2014–Current

Served as a referee for *Audeamus* (once), *Biometrika* (once), *BMC Bioinformatics* (3 times), *Canadian Journal of Statistics* (once), *Communications in Statistics - Simulation and Computation* (3 times), *Communications in Statistics - Theory and Methods* (once), *Electronic Journal of Statistics* (5 times), *Geographical Analysis* (twice), *Journal of Agricultural, Biological, and Environmental Statistics* (once), *Journal of the American Statistical Association* (twice), *Journal of Computational and Graphical Statistics* (7 times), *Journal of Multivariate Analysis* (twice), *Journal of Statistical Planning and Inference* (once), *Journal of Statistical Computation and Simulation* (once), *Journal of the Royal Statistical Society, Series B* (once), *Scandinavian Journal of Statistics* (once), *Statistica Sinica* (once), *Statistics and Computing* (5 times), *The American Statistician* (3 times), *The Annals of Statistics* (twice), *The proceedings of The 9th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing* (once).

CONFERENCE
ORGANIZATION

Organizer of "Recent theoretical advancements for MCMC algorithms" Section on Bayesian Statistical Science topic contributed session. August 1, 2018. Joint Statistical Meeting 2018, Vancouver, BC, CANADA.

Organizer of "Recent developments in Markov chain Monte Carlo methodology" ISBA topic contributed session. January, 2016. MCMSki 2016, Lenzerheide, SWITZERLAND.

Organizer and Chair of "Markov chain Monte Carlo for contemporary statistical applications" Section on Bayesian Statistical Science invited session. August 12, 2015. Joint Statistical Meeting 2015, Seattle, WA.

Organizer of "Advances in Bayesian computation motivated by applications" IMS topic contributed session. August 12, 2015. Joint Statistical Meeting 2015, Seattle, WA.

Co-Organizer of "Developments in Markov Chain theory and methodology" AMS invited session. November 2, 2013. American Mathematical Society Western Section Meeting, Riverside, CA.

Organizer of "Developments in Markov Chain Monte Carlo methodology" IMS invited session. August 6, 2013. Joint Statistical Meeting 2013, Montreal, QC, CANADA.

Chair for "Recent advances in Bayesian computation" invited session. August 8, 2013.

Joint Statistical Meetings, Montreal, QC, CANADA.

Organizer of "Bayesian methods in quality" invited session. June 6, 2012. Quality and Productivity Research Conference, Long Beach, CA.

Organizer of "Recent advances in MCMC" special session. February 15, 2012. 10th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, Sydney, AUSTRALIA.

Co-Organizer of "AMS special session on Markov Chains and their statistical applications" Mathematics Research Communities session. January 13, 2010. Joint Mathematics Meetings, San Francisco, CA.

Chair for "Introductory overview lecture: Designing longitudinal studies" session. August 4, 2009. Joint Statistical Meetings, Washington D.C..

GRANT REVIEWS   Ad hoc reviewer for NSF Methodology, Measurement, and Statistics Program. April, 2011, November 2011, October 2018.

Ad hoc reviewer for EPSRC Mathematical Sciences. August 2012.

UNIVERSITY
SERVICE

University of California, Riverside, CA

CNAS Committee on Research and Instructional Space	2017–Current
Statistics Undergraduate Course Committee	2017–Current
Statistics Undergraduate Online Course Committee	2017–Current
Statistics Graduate Online Course Committee	2017–Current
Big Data Cluster Search Committee	2017
Business Analytics Cluster Search Committee	2017
Spatial Analysis Cluster Search Committee	2017
University Gender Studies Requirement Ad Hoc Committee	2017
Statistics Undergraduate Learning Outcomes Committee	2016–2017
Statistics Colloquia Chair and Organizer	Fall 2012, 2014, Winter 2010
CNAS Executive Committee	2013–2016
Statistics Graduate Recruitment Committee	2012–2016
Statistics Graduate Financial Aid Committee	2012–2016
Statistics Qualifying Exam Committee	2008–2016
Statistics Faculty Search Committee	2011, 2013, 2014, 2015
Statistics Undergraduate Adviser	2009–2012
CNAS Academic Advising Center Oversight Committee	2009–2012
Jim Press Lecturer Chair	2009, 2010, 2011, 2012
Statistics Qualifying Exam Assessment Committee	2010–2012

CNAS Special Committee on Undergraduate Admissions	2010
CNAS Undergraduate Advising Assessment Committee	2010
CNAS Undergraduate Programs Working Group	2009
Statistics Strategic Planning Committee	2009
Statistics Computing Committee	2008–2009
Statistics Training Grant Committee	2008–2009

MEMBERSHIP   American Statistical Association, Institute of Mathematical Statistics, International Society for Bayesian Analysis (Bayesian Computation Section Lifetime Member)