

# *Curriculum vitae*

KEYING YE, Ph.D.  
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## **EDUCATION**

- 8/85 to 8/90: Ph.D, Statistics, Purdue University, West Lafayette, Indiana,  
9/82 to 1/85: MS, Mathematics, Institute of Applied Mathematics, Academia Sinica,  
Beijing, People's Republic of China,  
10/78 to 7/82: BS, Mathematics, Fudan University, Shanghai, People's Republic of China,

## **PROFESSIONAL EXPERIENCES**

- 8/05 to present: Professor, Department of Management Science and Statistics, University of Texas at San Antonio, San Antonio, TX 78249-0632.  
8/90 to 8/05: Assistant and associate professor, Department of Statistics, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0439.  
8/85 to 8/90: Graduate assistant, Department of Statistics, Purdue University, West Lafayette, IN 47907.  
1/85 to 8/85: Instructor, Department of Applied Mathematics, Shanghai Jiao Tong University, Shanghai, China.

## **RESEARCH INTERESTS**

- Statistical applications to the computational biology and biostatistics
- Bayesian inference and modelling
- Statistical applications to the environmental, ecological and geological sciences
- Statistical applications to industrial and quality improvement
- Statistical Design and Response Surface Methodology

## **RESEARCH ARTICLES**

### (a) Refereed Journal Articles:

- Lipkovich, I., Smith, E. P. and Ye, K. (2008). Detecting pattern in biological stressor response relationships using model based cluster analysis, *Environmental and Ecological Statistics*, **15**, 71-78.
- Yan, Mingjin and Ye, Keying (2007). Determining the number of clusters using the weighted gap statistic, *Biometrics*, **63**, 1031-1037.
- Hrubec, T.C., Yan M., Ye, K., Salafia, C.M. and Holladay, S.D. (2006). Valproic acid induced fetal malformations are reduced by maternal immune stimulation with granulocyte macrophage colony-stimulating factor or interferon  $\gamma$ , *The Anatomical Record Part A*, **288A**: 1303-1309.

- Wang, Yanping, Smith, Eric P. and Ye, Keying (2006). Sequential designs for a Poisson regression model in toxicological and medical studies, *Journal of Statistical Planning and Inference*, **136**, 3187-3202.
- Wang, Yanping, Myers, Raymond H., Smith, Eric P. and Ye, Keying (2006). D-optimal designs for Poisson regression models in toxicological and medical studies, *Journal of Statistical Planning and Inference*, **136**, 2831-2845.
- Duan, Yuyan, Smith Eric P. and Ye, Keying (2006), Using power priors to improve the binomial test in water quality, *Journal of Ag., Biol. and Envir. Stat.*, **11**, 151-168.
- Duan, Yuyan, Ye, Keying and Smith, Eric P. (2006), Evaluating water quality: using power priors to incorporate historical information, *Environmetrics*, **17**, 95-106.
- Boone, Edward L., Simmons, Susan, Ye, Keying and Stapleton, Ann E. (2006), Analyzing Quantitative Trait Loci for the Arabidopsis Thaliana using Markov Chain Monte Carlo Model Composition with Restricted and Unrestricted Model Spaces, *Statistical Methodology*, **3**, 69-78.
- Boone, Edward L., Ye, Keying and Smith, Eric P. (2005) Evaluating the relationship between ecological and habitat conditions using hierarchical models, *Journal of Ag., Biol. and Envir. Stat.*, **10**, 1-17.
- Boone, Edward L., Ye, Keying and Smith, Eric P. (2005), Assessment of two approximation methods for computing posterior model probabilities, *Computational Statistics and Data Analysis*, **48**, 221-234.
- Bing, N., Hoeschele, I., Ye, Keying, and Eilertsen, K.J. (2005) Finite mixture model analysis of microarray expression data on samples of uncertain biological type with application to reproductive efficiency, *Veterinary Immunology and Immunopathology*, **105**, 187-196.
- Yang, Xiao and Ye, Keying. (2004), On Efficiency of Experimental Designs for Single Factor cDNA Microarray Experiments, in *Data Mining and Knowledge Management, Lecture Notes in Computer Science*, 119-127, Springer-Verlag, New York.
- Zheng, L., Keller, S. F., Lyster, D. M., Carman, R. J., Genheimer, C. W., Gleaves, C. A., Kohlhepp, S. J., Young, S., Perez, S. and Ye, K. (2004), Multicenter Evaluation of a New Screening Test that Detects Clostridium difficile in Fecal Specimens, *Journal of Clinical Microbiology*, **42**, 3837-3840.
- Noble, Robert, Smith, Eric P. and Ye, Keying (2004) Model Selection in Canonical Correlation Analysis (CCA) using Bayesian Model Averaging, *Environmetrics*, **15**, 291-311.
- Daum, Luke T., Ye, Keying, Chambers, James P., Santiago, Jose, Hickman, John P., Barnes, William J., Kruzlock, Russell P. and Atchley, Daniel (2004). Comparison of TaqMan™ and Epoch Dark Quenchers™ during real-time reverse transcription PCR, *Cellular and Molecular Probes*, **18**, 207-209.
- Mendes, Pedro, Sha, Wei and Ye, Keying (2003), Artificial gene networks for objective comparison of analysis algorithms, *Bioinformatics*, **19**, ii122-ii129.
- Su, Chenting, Fern, Edward and Ye, Keying (2003), A temporal dynamic model of spousal family purchase-decision, *Journal of Marketing Research*, **40**, 268-281.
- Altekruze, Sean F., Elvinger, Francois, Wang, Yanping and Ye, Keying (2003). A model to estimate the optimal sample size for microbiological surveys, *Applied and Environmental Microbiology*, **69**, 6174-6178.
- Smith, Eric P., Zahran, Alyaa, Mahmoud, Mahmoud and Ye, Keying (2003). Evaluation of water quality using acceptance sampling by variables, *Environmetrics*, **14**, 373-386.

- Ye, Keying and Smith, Eric (2002). A Bayesian approach to evaluating site impairment, *Environmental and Ecological Statistics*, **9**, 379-392.
- Lipkovich, Ilya A., Smith, E.P. and Ye, Keying (2002). Evaluating the impact of environmental stressors on benthic microinvertebrate communities via Bayesian model averaging, *Vol. VI of Case Studies in Bayesian Statistics*, 267-283.
- Smith, Eric P., Lipkovich, Ilya and Ye, Keying (2002). Weight of evidence (WOE): quantitative estimation of probability of impairment for individual and multiple lines of evidence, *Human and Ecological Risk Assessment*, **8**, 1585-1596.
- Eno, Dan and Ye, Keying (2001). Probability matching priors for an extended statistical calibration model. *Canadian Journal of Statistics*, **29**, No 1, pp.19-35.
- Smith, Eric P., Ye, Keying, Hughes, Chris and Shabman, Leonard (2001), Statistical Assessment of Violations of Water Quality Standards under Section 303(d) of the Clean Water Act, *Environmental Science and Technology*, **35**, 606-612.
- Lin, Hefang, Myers, Raymond and Ye, Keying (2000), Bayesian two-stage optimal design for mixture models, in a special issue of VPI's 50<sup>th</sup> anniversary conference in *Journal of Statistical Computation and Simulation*, **66**, 209-231.
- Eno, Daniel and Ye, Keying (2000), Bayesian reference prior analysis for polynomial calibration models, *Test*, **9**, 191-208.
- Renberg, Walter C., Johnston, Spencer A., Carrig, Colin B., Budsberg, Steven C., Ye, Keying and Veit, Hugo P. (2000), Evaluation of a method for experimental induction of osteoarthritis of the hip joints in dogs, *American Journal of Veterinary Research*, **61**, 484-491.
- Sun, Dongchu and Ye, Keying (1999), Reference priors for a product of normal means when variances are unknown, *Canadian Journal of Statistics*, **27**, 97-103.
- Renberg, Walter C., Johnston, Spencer A., Ye, Keying and Budsberg, Steven C. (1999), A comparison of stance time and velocity as control parameters in force plate analysis, *American Journal of Veterinary Research*, **60**, 814-819.
- Ye, Keying (1998), Estimating a ratio of the variances in a balanced one-way random effects model, *Statistics and Decisions*, 163-180.
- Smith, Eric P., and Ye, Keying (1998), A statistical perspective of uncertainty, in *Uncertainty Analysis in Ecological risk assessment*, edited by W. Warren-Hicks and D. Moore, 149-159.
- Lu, Ying, Ye, Keying, Mathur, Ashwini K., Hui, Sui, Fuerst, Thomas P. and Genant, Harry K. (1997), Comparative calibration without a gold standard, *Statistics in Medicine*, **16**, 1889-1905.
- Smith, Eric P., Ye, Keying and McMahan Angela R. (1996), Bayesian statistics: evolution or revolution? *Human and Ecological Risk Assessment*, **2**, pp.660-665.
- Sun, Dongchu and Ye, Keying (1996), Frequentist validity of posterior quantiles for a two-parameter exponential family, *Biometrika*, **83**, pp.55-65.
- Ye, Keying (1995), Selection of the reference priors for a balanced random effects model, *Test*, **4**, pp.1-17.
- Sun, Dongchu and Ye, Keying (1995). Reference prior Bayesian analysis for normal mean products, *Journal of the American Statistical Association*, **90**, 589-597.
- Ye, Keying (1994). Bayesian reference prior analysis on the ratio of variances for the balanced one-way random effects model, *Journal of Statistical Planning and Inference*, **41**, 267-280.

- Ye, Keying (1993). Reference priors when the stopping rule depends on the parameter of interest, *Journal of the American Statistical Association*, **88**, 360-363.
  - Ye, Keying and Berger, James O. (1991). Noninformative priors for inferences in exponential regression models, *Biometrika*, **78**, 645-656.
- (b) Articles and abstracts in Conference Proceedings (peer reviewed):
- Schwarz, M. H., J. Gibson, D. Stewart, J. Hillison, M. Lambur, K. Ye, and S. Craig. (2006). A needs assessment of aquaculture extension agents, specialists, and program administrators in extension programming. *World Aquaculture Society Aquaculture America Meeting*. Las Vegas, NV. February 13-16.
  - Sha, W., Ye, K. and Mendes, P. (2004) Evaluation of statistical methods for cDNA microarray differential expression analysis, in *International Conference on Research in Computational Molecular Biology*.
  - Mendes, Pedro, Sha, Wei, Ye, Keying (2003). Artificial gene networks for objective comparison of analysis algorithms in *Proceedings of the European Conference on Computational Biology*, 122-129.
  - Li, Shun-hwa, Ye, Keying and Hoeschele, Ina (2001). Experimental designs and statistical models for gene expression data from microarrays, in *Proc Plant and Animal Genome IX*.
- (c) Articles in Conference Proceedings, Bulletins, Authors' Replies and Books:
- Ye, Keying (2005). Review of "Applied Bayesian Modeling and Causal Inference from Incomplete-Data Perspectives," *Technometrics*, **47**, 519.
  - Ye, Keying (2003). Annotated bibliography on model averaging methods. *Bulletin of International Bayesian Society*, **10**, 12-14.
  - Chen, Ming-Hui and Ye, Keying (2003). Bayesian methods, in *Advanced Medical Statistics*, (Fang, J. and Lu, Y. Eds.), 933-990.
  - Lu Ying, Ye, Keying and Mathur, Ashwini K. (2000), Comparative calibration without a gold standard by Ying Lu *et al.* *Statistics in Medicine*, 16, 1889-1905 (1997) - Authors' reply, *Statistics in Medicine*, **19**, 1254-1254.
  - Lu Ying, Ye, Keying and Mathur, Ashwini K. (1998), Comparative calibration without a gold standard by Ying Lu *et al.* *Statistics in Medicine*, 16, 1889-1905 (1997) - Authors' reply, *Statistics in Medicine*, **17**, 1297-1298.
  - Eno, Dan and Ye, Keying (1998). Noninformative priors for calibration problems, in *ASA Annual Meeting Proceedings of the Section on Biometrics*, 204-209.
  - Lu, Y., Ye, K., Mathur, A., Srivastav, S., Yang, S. and Genant, H. (1997). Application of random effects models in comparative calibration, in *ASA Annual Meeting Proceedings of the Section on Biometrics*, 170-175.
  - Lu, Ying and Ye, Keying (1997). A Bayesian analysis to comparative calibration model with random effects, in *ASA Annual Meeting Proceedings of the Section on Biometrics*, 164-169.
  - Sun, Dongchu, and Ye, Keying (1995). Reference priors for a product of normal means, in *ASA Annual Meeting Proceedings of the Section on Bayesian Statistical Science*, 127-131.
  - Sun, Dongchu, and Ye, Keying (1995). Reference prior Bayesian analysis for a two parameter exponential family, *ASA Annual Meeting Proceedings of the Section on Bayesian Statistical Science*, 132-137.

- Ye, Keying (1994). EWMA control charts for AR(1) model using Bayes estimators, in *ASA Annual Meeting Proceedings of the Section on Bayesian Statistical Science*, 64-68.
- Ye, Keying (1993). Justifications of the reference priors for a random effects model, in *ASA Annual Meeting Proceedings of the Section on Bayesian Statistical Science*, 223-228.

(d) Articles accepted for publication.

- Chen, Younan and Ye, Keying, Bayesian Hierarchical Modeling on Dual Response Surfaces in Partially Replicated Designs, *Quality Technology and Quality Management*, to appear 2009.
- Ozsoy-Cicek, B., Xie, H., Ackley, S.F. and Ye K. Antarctic summer sea ice concentration and extent: Comparison of ODEN 2006 ship observations, Satellite Passive Microwave and NIC Sea Ice Charts, *The Cryosphere*, to appear 2009.

(e) Articles under revisions:

- Chen, Younan and Ye, Keying, A Bayesian hierarchical approach to dual response surface modeling, *Journal of Applied Statistics*, under revision.
- Duan, Yuyan and Ye, Keying, Normalized power prior Bayesian analysis, *Bayesian Analysis*, under revision.

(f) Articles submitted to professional journals:

- Love, Kimberly R., Smith, Eric P., Ye, Keying and Prisley Stephen P., A statistical alternative to the Douglas-Peucker algorithm for line simplification by point deletion, submitted to *International Journal of Geographical Information Science*.
- Love, Kimberly R., Smith, Eric P., Ye, Keying and Prisley Stephen P., Error models in geographic information systems vector data using Bayesian methods, submitted to *International Journal of Geographical Information Science*.
- Boone, Edward, Ye, Keying and Smith, Eric, Assessing Environmental Stressors via Bayesian Model Averaging in the Presence of Missing Data, submitted to *Environmetrics*.

(g) Technical Reports (Department of Statistics):

- Eno, Daniel R. and Ye, Keying, Bayesian reference prior analysis for polynomial calibration models (1999), # 99-5.
- Eno, Daniel R. and Ye, Keying, Probability matching priors for an extended statistical calibration model (1999), #99-2
- Ye, Keying, Control schemes for AR(1) model using the Bayes estimators (1994), #94-5.

**BOOKS**

Walpole, R.E. Myers, R.H. and Myers, S.L. and Ye, K. *Probability and Statistics for Engineers and Scientists*, 8<sup>th</sup> edition, Prentice Hall, 2005.

## GRANTS

- Tu, Zhijian, Ye, Keying and Biedler, Jim (08/2006-08/2008). Characterization and expression of microRNA genes in *Anopheles gambiae*, as a co-PI of the proposal granted by National Institute of Health, amount awarded: \$409,921.
- Tu, Zhijian, Myles, Kevins, Adelman, Zach and Ye, Keying (01/2006-12/2006). microRNA, blood feeding, and gene regulation in mosquitoes, as a subcontractor of the proposal granted by the Institute for Biomedical and Public Health Sciences of Virginia Tech, amount awarded: \$44,889.
- Prisley, Stephen, Carstensen, Lawrence W. Jr., Ye, Keying and Smith, Eric P. (08/2005-07/2008). Application of spatial uncertainty models to automate and enhance data fusion, as a co-PI of the proposal granted by National Geospatial Intelligence Agency, amount awarded: \$449,643.00.
- Ye, Keying (2004). Supplementary travel grant from the University and the College of Sciences, amount awarded: \$1,300.
- Tyler, B., Maroof, S., Buss, G.R., Hoeschele, I., Kruselock, R., Schlaugh, K. and Ye, K. (10/2002-09/2007). Dissecting Soybean Resistance to *Phytophthora* by QTL Analysis of Host and Pathogen Expression Profiles, as a co-PI of the grant by *National Science Foundation*, amount awarded \$6,764,465.00.
- Ye, Keying and Smith Eric P. (07/2001-06/2002). Statistical Analyses in Water Resource Monitoring, PI of the grant by *Virginia Water Resource Research Center*, amount awarded \$19,405.
- Ye, Keying (2001-2002) Bayesian method for assessing sample size in *E. Coli* sampling, by *FDA*, amount awarded \$8,000.
- Jarrott, Shannon and Ye, Keying (2001-2002). Dementia care mapping: a validity test, as a Co-PI of the awarded *Aspires* grants by Virginia Tech, amount awarded \$41,852.
- Smith, Eric P. and Ye, Keying (2000-2002). Assessing effects of multiple stressors in environmental monitoring programs, by EPA/NSF, amount awarded: \$266,388.
- Ye, Keying (1999). International supplemental travel grant from the University and College of Arts and Science. Amount awarded: \$1,785.
- Smith, Eric P., Ye, Keying and Hughes, Chris (1999). Water monitoring for Virginia Department of Environmental Quality, through Consulting Center, amount awarded: \$3,000.
- Ye, Keying (1996). Bayesian applications in environmental statistics. Creative Match Grant, VPI&SU, amount awarded: \$1,000.
- Ye, Keying (1995-1996). Bayesian applications in environmental statistics. College of Arts and Sciences, Small Grants Program, amount awarded: \$1,850.
- Ye, Keying (1994). Supplemental grant from the University and the College of Arts and Sciences, amount awarded: \$1,300.
- Ye, Keying (1994). NSF grant for traveling to the 5th Valencia International Meeting on Bayesian Statistics, amount awarded: \$300.
- Ye, Keying (1993). Numerical computation in reference prior Bayesian statistics, in the joint SCREMS grant awarded from the National Science Foundation. The proposal was part of the departmental proposal for computing improvement, amount awarded for the whole project: \$248,000.
- Ye, Keying (1992). Process Control and Bayesian Decision Theory. College of Arts and Sciences, Small Grants Program, amount awarded: \$3,000.

- Ye, Keying (1992). NSF group travel grant for the Fifth Purdue International Symposium on Statistical Decision Theory and Related Topics, amount awarded: \$300.
- Ye, Keying (1992). NSF grant for a Bayesian conference, amount awarded: \$300.
- Ye, Keying (1991). NSF writing workshop grant at the ASA joint annual statistical meetings in Atlanta, amount awarded: coverage of the travel.

## PRESENTATIONS

- “A Bayesian Modeling in Dual Response Surface Methodology.” Invited talk at the International India Statistical Association Conference, University of Connecticut, Storrs, Connecticut, May 24, 2008.
- “Normalized Power Prior Analysis.” Invited talk at the Department of Statistics, Penn State University, April 24, 2008.
- “Bayesian Hierarchical Modeling on Dual Response Surfaces.” Invited talk at the Conference of Texas Statisticians, March 28, 2008, San Antonio, Texas.
- “Normalized Power Prior Analysis.” Department of Mathematical Sciences, University of Texas at Dallas, November 13, 2007.
- “Determining the Number of Clusters Using Weighted Gap Statistic.” Department of Management Science and Statistics, UTSA, September 14, 2007.
- “Bayesian One- and Two-Stage Design for Generalized Linear Models.” Invited speaker for the 2007 Taipei International Statistical Symposium and ICSA International Conference, Academia Sinica, Taipei, Taiwan, June 27, 2007.
- “A Bayesian Hierarchical Approach to Dual Response Surface Modeling.” Invited speaker for 16<sup>th</sup> Taiwan South Region Statistical Conference, June 23, 2007.
- “Bayesian Power Prior Analysis with Applications in Ecological Data.” Invited seminar speaker, National Central University, Jongli, Taiwan, June 21, 2007.
- “A Bayesian Hierarchical Approach to Dual Response Surface Modeling.” Invited speaker for Forum for Interdisciplinary Mathematics on the Interdisciplinary Mathematical and Statistical Techniques, May 21, 2007.
- “Bayesian Applications to the Environmental Study.” Colloquium. Department of Mathematics, Southeastern Louisiana University, February 23, 2007.
- “Bayesian Model Averaging with Missing Data in an Environmental Study.” Colloquium, Department of Management Science and Statistics, University of Texas at San Antonio, November 3, 2006.
- “Bayesian Power Prior Approach in Environmental Studies.” Invited speaker for the International Chinese Statistical Association Symposium, June 14-17, 2006.
- “Bayesian Methods with Applications in Marketing.” A two-day short course for colleagues in Department of Marketing, City University of Hong Kong, June 14-15, 2005.
- “Bayesian Methods in Statistical Applications.” INFORMS talk, Department of Industrial Systems Engineering, Virginia Tech, March 2, 2005.
- “Finite Mixture Model Analysis in Predicting Biological Types,” Department of Management Science and Statistics, University of Texas at San Antonio, February 18, 2005.
- “Use of Power Prior Distributions in Environmental and Ecological Data Analysis,” in *JSM* annual meetings, Toronto, Canada, August 10, 2004.
- “On Efficiency of Experimental Designs for Single Factor cDNA Microarray Experiments.” Invited talk in *Chinese Academy of Sciences Symposium on Data Mining and Knowledge Management*, Beijing, China, July 12-14, 2004.

- “Non-linear Response Surface Design and Issues in Microarray Experiments.” Research Home (3) at Department of Statistics, April, 2004.
- “Bayesian Methods in Environmental Statistics and other fields.” Research Home (2) at Department of Statistics, March, 2004.
- “Bayesian Methods in Noninformative Prior Analysis and Response Surface Methodology.” Research Home (1) at Department of Statistics, March, 2004.
- “Some Statistical Issues in cDNA Microarray Experiments.” Invited talk in Department of Applied Mathematics, Shanghai Jiaotong University, December 24, 2003.
- “Using Mixed Models to Analyze Microarray Data.” ASA joint annual meetings, San Francisco, August, 2003.
- “Some Statistical Issues in cDNA Microarray Experiments.” Invited talk at Department of Statistics, University of Missouri, Columbia, Missouri, March, 2003.
- “D-optimal Designs for the Poisson Regression Model in Impaired Reproduction Studies.” ASA joint annual meetings, New York, August, 2002.
- “Hierarchical spatial modeling to ecological data.” *The International Environmetrics Society conference*, Portland, Oregon, August, 2001.
- “Bayesian Analysis in identifying *E. Coli* strains in Turkey flocks.” ASA joint annual meetings, Atlanta, August 2001.
- “Evaluating site impairment.” Department of Statistics, April 2, 2001.
- “Probability matching priors for an extended statistical calibration model.” ASA joint annual meetings, Indianapolis, August 2000.
- "Bayesian Two-Stage Experimental Designs under Model Uncertainty." Invited talk at the Graduate Institute of Statistics, National Central University, Chung-li, Taiwan, October 26, 1999.
- "Reference and Matching Priors in Objective Bayesian Analysis." Invited talk at the Institute of Statistics in Academia Sinica, Taipei, Taiwan, October 25, 1999.
- "Bayesian analysis." Invited talk at Department of Applied Mathematics in Tongji University, Shanghai, China, September 22, 1999.
- "Evaluating Site Impairment: a Bayesian approach." ASA joint annual meetings, Baltimore, August 14, 1999.
- "On confidence intervals associated with the usual and adjusted likelihoods." Invited discussant at the International Workshop on Objective Bayesian Methodology, Valencia, Spain, June 13, 1999
- "Probability matching priors for an extended statistical calibration model." International Workshop on Objective Bayesian Methodology, Valencia, Spain, June 11, 1999.
- "Application of random effects models in comparative calibration." ASA joint annual meetings, Anaheim, August 13, 1997.
- "A Bayesian analysis to comparative calibration model with random effects." ASA joint annual meeting, Anaheim, August 13, 1997.
- "A Bayesian model in comparative calibration." Regional meeting of International Society for Bayesian Analysis, Chicago, August 2-3, 1996.
- "A Bayesian analysis to comparative calibration." Invited by the Department of Mathematical Statistics, University of Orange Free State, Bloemfontein, South Africa, December 13, 1996.
- "A Bayesian analysis to repeated measurement model." Invited presentation at the 4<sup>th</sup> annual meeting of International Society for Bayesian Analysis, University of Cape Town, South Africa, December 16-19, 1996.



- "Comparative calibration." Colloquium of Statistics Department, Virginia Polytechnic Institute and State University, February 6, 1997.
- "Reference prior Bayesian analysis." Invited presentation at the 3rd annual world meeting of the International Society for Bayesian Analysis, Oaxaca, Mexico, September 29-30, 1995.
- "Reference priors for a product of normal means." ASA Joint Statistical Meetings, Orlando, Florida, August 13-17, 1995.
- "Frequentist justifications of the reference prior Bayesian analysis." Department of Statistics, Virginia Polytechnic Institute and State University, February 9, 1995.
- "EWMA control charts for the AR(1) model using the Bayes estimators." ASA Joint Statistical Meetings, Toronto, Canada, August 15-18, 1994.
- "Estimation for the ratio of variances in a balanced one-way random effects model," in Second annual meeting of International Society for Bayesian Analysis, Alicante, Spain, June 11-June 12, 1994.
- "Reference prior Bayesian analysis for normal mean products," in Fifth Valencia International Meeting on Bayesian Statistics, Alicante, Spain, June 4-June 10, 1994.
- "Reference priors for a random effects model," in First annual world meeting of the International Society for Bayesian Analysis, San Francisco, California, August 6-7, 1993.
- "Reference prior analysis on the ratio of variances for one-way random-effects model," in Fifth Purdue International Symposium on Statistical Decision Theory and Related Topics, West Lafayette, Indiana, June 14-19, 1992.
- "Reference priors when the stopping rule depends on the parameter of interest," in Bayesian conference, St. Louis, Missouri, April 11-12, 1992.
- "How to derive noninformative priors when a stopping rule is given?" Department of Statistics, Virginia Polytechnic Institute and State University, March, 1992.
- "Noninformative priors for inferences in exponential regression model," Fifty-fourth IMS annual meeting with ASA, Atlanta, Georgia, August 19-22, 1991.
- "Reference prior Bayesian analysis." Department of Statistics, Virginia Polytechnic Institute and State University, March, 1990.
- "Noninformative prior Bayesian analysis." Business School, University of Chicago, February, 1990.

#### **AWARDS AND HONORS**

- Certificate of Teaching Excellence, College of Arts and Science, Virginia Tech, 2003;
- David Ross Fellowship, Purdue University, 1988-1989, and 1989-1990;
- Member of Mu Sigma Rho national statistical honor society;
- Fudan Fellowships, Fudan University, Shanghai, China; 78-79, 79-80, and 81-82.

#### **PROFESSIONAL SERVICES**

- Served as a co-chair for the breakfast and coffee roundtable "Bayesian Methods in Environmental and Ecological Sciences," for ASA Joint Statistical Meetings, Seattle, Washington, August 6-10, 2006.
- Organized a topic contributed session "Statistical Applications in Water Quality and Monitoring," for ASA Joint Statistical Meetings, Seattle, Washington, August 6-10, 2006.
- Served as a chair for the topic contributed session "Bayesian Methods in Industrial Statistics," for ASA Joint Statistical Meetings, Minneapolis, Minnesota, August 7-11, 2005.

- Organized topic contributed session “Bayesian Methods in Environment, and Ecological Science,” for ASA Joint Statistical Meetings, Minneapolis, Minnesota, August 7-11, 2005.
- Organizing a topic contributed session “Bayesian Methods in Industrial Statistics,” for ASA Joint Statistical Meetings, Minneapolis, Minnesota, August 7-11, 2005.
- Organized topic contributed session “Bayesian Methods in Environment, Forestry, and Wildlife Science,” for ASA Joint Statistical Meetings, Toronto, Canada, August 8-12, 2004.
- Member of the Committee of Programs and “Bioinformatics” session organizer for the *Chinese Academy of Sciences Symposium on Data Mining and Knowledge Management*, Beijing, China, July 12-14, 2004.
- Serving as an Associate Editor for the *Journal of Statistical Computation and Simulation*, 2000-present.
- Served as chair for the special contributed paper session "Bayesian spatial analysis" for ASA Joint Statistical Meetings, Atlanta, Georgia, August, 2001.
- Served as chair for the luncheon "Bayesian statistics in quality technology" for ASA Joint Statistical Meetings, Atlanta, Georgia, August, 2001.
- Served as chair for the session "Statistical Quality Control" for the 50<sup>th</sup> anniversary conference of the Department of Statistics, Virginia Tech, August, 1999.
- Served as chair for the special contributed paper session “Linear and Generalized Linear Mixed Models” for ASA Joint Statistical Meetings, Anaheim, August, 1997.
- Organized the special contributed paper session “Development and Applications of Noninformative Priors” for ASA Joint Statistical Meetings, Orlando, Florida, August, 1995.
- Organized the special contributed paper session “Bayesian Approach to Environmental and Ecological Problems” for ASA Joint Statistical Meetings, Chicago, August, 1996.

## REFEREEING FOR JOURNALS AND GRANT PROPOSALS

*American Statisticians*

*Annals of the Institute of Statistical Mathematics*

*Annals of Statistics*

*Biometrics*

*Biometrika*

*Canadian Journal of Fisheries and Aquatic Sciences*

*Canadian Journal of Statistics*

*City University of Hong Kong (grant review)*

*Communications in Statistics—Theory and Methods*

*Computational Statistics and Data Analysis*

*Environmental Protecting Agency (grant review)*

*Forestry Science*

*IEEE Computer Review*

*International Journal of Quality and Reliability Engineering*

*Journal of Agricultural, Biological and Environmental Statistics*

*Journal of the American Statistical Association*

*Journal of Applied Statistics*

*Journal of Classification*

*Journals of the Ecological Society of America*

*Journal of Quality Technology*  
*Journal of the Royal Statistics Society*  
*Journal of Science (Iran)*  
*Journal of Statistical Computation and Simulation*  
*Journal of Statistical Planning and Inference*  
*Metrika*  
*National Security Agency (grant review)*  
*Sankhya*  
*Statistical Science*  
*Statistica Sinica*  
*Technometrics*  
*Test*  
*and other special publications*

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Member of the American Statistical Association;  
Member of ASA, Bayesian section;  
Member of the Institute of Mathematical Statistics;  
Member of the International Society of Bayesian Analysis;  
Member of the International Chinese Statistics Association.