

MING-HUI CHEN

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1. Education

1993	Ph.D.	Department of Statistics, Purdue University West Lafayette, IN 47907-1399
1991	M.S.	Department of Statistics, Purdue University West Lafayette, IN 47907-1399
1985	M.S.	Department of Applied Mathematics Shanghai Jiao Tong University, Shanghai, China
1983	B.S.	Department of Mathematics, Hangzhou University, China

2. Work Experience

2021 - present	Board of Trustees Distinguished Professor and Head	Department of Statistics University of Connecticut.
2016 - 2021	Professor and Head	Department of Statistics University of Connecticut.
2005 - 2016	Professor	Department of Statistics University of Connecticut.
2001 - 2005	Associate Professor	Department of Statistics University of Connecticut.
1998 - 2002	Associate Professor	Department of Mathematical Sciences Worcester Polytechnic Institute.
1993 - 1998	Assistant Professor	Department of Mathematical Sciences Worcester Polytechnic Institute.
1985 - 1988	Lecturer	Department of Applied Mathematics Shanghai Jiao Tong University, Shanghai.

3. Research Interests

Bayesian Statistical Methodology, Bayesian Computation, Bayesian Phylogenetics, Categorical Data Analysis, Design of Bayesian Clinical Trials, DNA Microarray Data Analysis, Meta-analysis (<http://merlot.stat.uconn.edu/packages/metapack/>), Missing Data Analysis (EM, MCEM, and Bayesian), Monte Carlo Methodology, Prior Elicitation, Statistical Methodology and Analysis for Prostate Cancer Data, Statistical Modeling, Survival Data Analysis, and Variable Selection.

4. Professional Society Memberships

Member of *Institute of Mathematical Statistics*, *American Statistical Association*, *ENAR*, *The International Biometric Society*, *The International Society for Bayesian Analysis Section on Bayesian Statistics*, *International Chinese Statisticians Association*, *The International Statistical Institute*, *Korean International Statistical Society*, *The International Society of Biopharmaceutical Statistics*, *New England Statistical Society*, and *The Society of The Sigma Xi*.

5. Honors and Awards

- Board of Trustees Distinguished Professor, University of Connecticut, April 2021.
- International Chinese Statistical Association (ICSA) Distinguished Achievement Award, 2020.
- Elected to Fellow of International Society for Bayesian Analysis in 2016.
- UCONN Alumni Association's University Award for Faculty Excellence in Research and Creativity (Sciences), University of Connecticut, 2014.
- Research Excellence Award, American Association of the University Professors, University of Connecticut, 2013.
- The College of Liberal Arts and Sciences (CLAS) Excellence in Research Award in the Physical Sciences Division, University of Connecticut, 2013.
- International Chinese Statistical Association (ICSA) Outstanding Service Award, 2011.
- Elected to Fellow of the Institute of Mathematical Statistics in 2007.
- Elected to Fellow of American Statistical Association in 2005.
- Elected as an ordinary member of the International Statistical Institute (ISI) in 1999.
- Received the Harold J. Gay Assistant Professorship in Mathematical Sciences for 1998-2000 with an annual stipend of \$1,000.
- Received the I.W. Burr Award in Statistics from Purdue University (May 1993). (This is awarded annually to an outstanding student by the Department of Statistics of Purdue University.)
- Received Honorable Mention in the 1995 Leonard J. Savage Thesis Award competition.

6. Professional Services

- JSM 2022 Program Chair, American Statistical Association, 2021-2022.
- Representative from Districts 1-3, ASA Caucus of Academic Representatives, 2018-2021.
- Co-Chair of the ISBA 2021 Virtual Conference (VC) committee, 2021 ISBA World Meeting, 2021.

- Co-Chair of the Organizing Committee, 2020 ISBA World Meeting, 2018-2020 (postponed to 2024 or 2026).
- Co-Chair of the Organizing Committee, The 3rd Stat4Onc Annual Symposium, April 25-27, 2019, Hilton, Hartford, CT.
- Chair of the 2018 Mitchell Prize Committee, and Member of the 2017 Mitchell Prize Committee, International Society for Bayesian Analysis.
- The International Advisory Committee for the discipline of statistics of Yunnan University, December 2017 – Present.
- President-Past, New England Statistical Society, June 1, 2020 - May 31, 2022.
- President, New England Statistical Society, June 1, 2018 - May 31, 2020.
- President-Elect, New England Statistical Society, June 1, 2017 - May 31, 2018.
- Chair-Past, Eastern Asia Chapter of International Society for Bayesian Analysis. 2019-2020.
- Chair, Eastern Asia Chapter of International Society for Bayesian Analysis. 2018.
- Chair-Elect, Eastern Asia Chapter of International Society for Bayesian Analysis. 2017.
- Co-Chair, the Local Organizing Committee, the LIDA Conference on Data Science, Precision Medicine and Risk Analysis with Lifetime Data, University of Connecticut, Storrs, CT, May 24-27, 2017.
- President Elect Appointee, Committee on Nominations, American Statistical Association, 2016-2017.
- Co-Chair, the Scientific Program Committee, the 10th ICSA International Conference, Shanghai, China, December 19-22, 2016.
- The International Advisory Committee for the discipline of statistics of Shanghai Jiao Tong University, 2013 – Present.
- Nominating Committee, International Society for Bayesian Analysis, 2014.
- Co-Organizer, the Banff International Research Station Workshop on *Statistical and Computational Theory and Methodology for Big Data Analysis*. The Banff International Research Station, Canada, February 9, 2014 — February 14, 2014. (<http://www.birs.ca/events/2014/5-day-workshops/14w5086>).
- President Elect (2012), President (2013), President Past (2014), International Chinese Statistical Association, Elected in 2011.
- Board of Directors, Zhejiang University Alumni Association, Elected in 2011.
- Board of Directors, International Society for Bayesian Analysis, Elected in 2010, Serving for 2011-2013.
- 2012 Applied Statistics Symposium Executive Committee, International Chinese Statistical Association, 2011-2012.
- The Scientific Committee of the 11th ISBA World Meeting, 2011-2012.

- The SBSS/ASA Student Paper Competition/Travel Awards Committee, 2011-2013, 2015.
- Chair of the Publication Committee, International Chinese Statistical Association, 2011.
- The SBSS Nominations Committee, Section On Bayesian Statistical Sciences (SBSS), American Statistical Association, 2009-2012.
- Coordinator of the 8th ICSA International Conference, Guangzhou, China, December 19-22, 2010.
- Associate Chair of the Organizing Committee, Conference on Frontiers of Statistical Decision Making and Bayesian Analysis — In Honor of James O. Berger, San Antonio, March 17-20, 2010.
- Publications Officer, Section On Bayesian Statistical Sciences (SBSS), American Statistical Association, Elected in 2007, Served for 2008-2009.
- Executive Director, International Chinese Statistical Association, 2007-2010.
- Chair of the Local Organizing Committee of The 2006 International Chinese Statistical Association Applied Statistics Symposium (June 14-17, 2006).
- Board of Directors, International Chinese Statistical Association. Elected in 2003, Served for 2004-2006.
- Program Chair, Section On Bayesian Statistical Sciences (SBSS), American Statistical Association, Elected in 2003, Served for 2004-2005.
- Institute of Mathematical Statistics Committee for New Researchers for years 97, 98, and 99.

7. Editorial and Referee Services

- **Co-Editor-in-Chief** (2019 –): *Statistics and Its Interface*.
- **Co-Editor-in-Chief** (2020 –): *New England Journal of Statistics in Data Science*.
- **Associate Editor** (2011 – Present): *Journal of the American Statistical Association*.
- **Associate Editor** (2005 – Present): *Journal of Computational and Graphical Statistics*.
- **Associate Editor** (2001 – Present): *Lifetime Data Analysis*.
- **Co-Guest Editor** (2014 - 2016): *Statistics and Its Interface*, A Special Issue on Statistical and Computational Theory and Methodology for Big Data.
- **Guest Editorial Board** (2014 - 2015): *Technometrics*, A Special Issue on Statistical Analysis of Big Data.
- **Co-Guest Editor** (2013 - 2014): *Statistica Sinica*, A Special Issue on Spatial and Temporal Data Analysis.

- **Editor** (2014 – 2018): *Statistics and Its Interface*.
- **Editor** (2010 – 2018): *Bayesian Analysis*.
- **Guest Editor** (2013 - 2014): *Statistics and Its Interface*, A Special Issue on Modern Bayesian Statistics.
- **Associate Editor** (2007 – 2014): *Statistics and Its Interface*.
- **Co-Guest Editor** (2009 - 2011): *Lifetime Data Analysis*, A Special Issue on Bayesian Methods for Survival Data.
- **Co-Editor** (2004 – 2011): *Sankhyā*, Series A and B.
- **Associate Editor** (2004 – 2010): *Bayesian Analysis*.
- **Referee for the Journals:**
Annals of Statistics; Journal of the American Statistical Association; Biometrika; Biometrics; Journal of the Royal Statistical Society, Series B; Operations Research; Statistica Neerlandica; Journal of Statistical Planning and Inference; Journal of Computational and Graphical Statistics; Journal of Clinical Oncology; Statistics and Computing; Statistica Sinica; Communications in Statistics; Sankhyā (Series A); Sankhyā (Series B); Lifetime Data Analysis; Scandinavian Journal of Statistics; Annals of the Institute of Statistical Mathematics; Biostatistics; American Statistician; Applied Statistics (JRSSC); INFORMS Journal on Computing; Technometrics; Biometrical Journal; Journal of Statistical Computation and Simulation; Computational Statistics and Data Analysis; Journal of Multivariate Analysis; Metron; Methodology and Computing in Applied Probability; International Journal Artificial Intelligence in Medicine; Psychometrika; Statistics & Probability Letters; Journal of Educational and Behavioral Statistics; Statistics; Annals of Applied Probability; Annals of Applied Statistics; Statistics in Medicine; Statistical Science.
- **Review Book Proposals:**
 Arnold, Fall 1999, Springer-Verlag, Fall 2001, John Wiley, Fall 2002, and Springer-Verlag, Spring 2003.
- **Review** of the Royal Statistical Society read paper (2002).
- **Review Proposals:**
 - NSF, 1993-1994, 2003, 2004, 2005, 2006, and 2007.
 - Reviewer of the NIH Special Emphasis Panel to review RFA applications received in response to CA11-005, “Advanced In Vivo Imaging to Understand Cancer Systems” (R01) (June, 2011).
 - Reviewer of the NIH Special Emphasis Panel to review RFA applications to CA-10-021, “Tumor Microenvironment Network” (U54) (June-July, 2011).
 - Reviewer of the National Security Agency (NSA) grant proposal, 2005, 2006, 2007, 2012, 2014
 - Reviewer of the grant proposal of the Division for Social Science, Netherlands Organisation for Scientific Research (NWO), 2013.

- Reviewer of the grant proposals of the Research Grant Council (RGC) of Hong Kong, 2013, 2014, 2015, 2016, 2017, 2018, 2019, and 2020.
- Reviewer of the NIH/NCI Special Emphasis Panel to review UM1 applications submitted to RFA-CA-13-006, entitled, “NCI Experimental Therapeutics-Clinical Trials Network with Phase I Emphasis (ET-CTN)(UM1)” (November 12, 2013).
- Reviewer of the NSF DCL panel, August, 2015.
- Reviewer of the Natural Sciences and Engineering Research Council of Canada (NSERC) grant proposal, December, 2015.
- Biostatistical Reviewer of the Clinical and Integrative Cardiovascular Sciences (CICS) Study Section, NIH, February, 2016.
- Reviewer of the National Research Foundation of South Africa grant proposal, June, 2016.
- Reviewer of the proposal of TOP Grants for young researchers, Netherlands Organisation for Scientific Research (NWO), 2018.
- Reviewer of the NSF DMS Statistics A panel, March, 2020.

8. Publications

♠ BOOKS

- (1) Chen, M.-H., Kuo, L., and Lewis, P.O. (Eds.) (2014). *Bayesian Phylogenetics: Methods, Algorithms, and Applications*. Chapman & Hall/CRC Mathematical and Computational Biology. ISBN: 978-1466500792.
- (2) Chen, M.-H., Dey, D.K., Müller, P., Sun, D., Ye, K. (Eds.) (2010). *Frontiers of Statistical Decision Making and Bayesian Analysis — In Honor of James O. Berger*. Springer-Verlag, ISBN 978-1-4419-6943-9, 631 pages.
- (3) Ibrahim, J.G., Chen, M.-H., and Sinha, D. (2001). *Bayesian Survival Analysis*. Springer Series in Statistics, Springer-Verlag, ISBN 0-387-95277-2, 493 pages, Corrected Second Printing, 2004.
- (4) Chen, M.-H., Shao, Q.-M., and Ibrahim, J.G. (2000). *Monte Carlo Methods in Bayesian Computation*. Springer Series in Statistics, Springer-Verlag, ISBN 0-387-98935-8, 399 pages, Corrected Second Printing, 2002.
- (5) Petrucci, J.D., Nandram, B., and Chen, M.-H. (1999). *Applied Statistics for Engineers*. Text Book, Prentice-Hall, INC., ISBN 0-13-565953-1, 960 pages.

♠ REFEREED JOURNAL ARTICLES/DISCUSSIONS OR BOOK CHAPTERS

1. Ramanathan, P., Liu, R., Chen, M.-H., and Kennedy, M.R.T. (2021). Memory and executive functions subserving judgments of learning: cognitive reorganization after traumatic brain injury. *Neuropsychological Rehabilitation*. To appear.

2. Liu, F., Zhang, J., Shi, N., and Chen, M.-H. (2021). A generalized semi-parametric model for jointly analyzing response times and accuracy in computerized testing. *Statistics and Its Interface*. To appear.
3. Wu, Y., Senk, C., Coll, P., Glenney, S., Zaborowski, K., Fortinsky, R., Taylor, B., Park, C., Benson, K., McGowan, M., Sylvia DiBiasi, S., Chen, M.-H., and Pescatello, L. (2021). A comparison of two Tai Chi interventions tailored for different health outcomes. *Complementary Therapies in Medicine*, 59, 102731. <https://doi.org/10.1016/j.ctim.2021.102731>.
4. Zhang, Y., Adeniji. A.K., and Chen, M.-H. (2021). A flexible non-parametric procedure for testing cumulative hazards with application to oncology studies. *Journal of Statistical Research*. To appear.
5. Tilki, D., Chen, M.-H., Wu, J., Huland, H., Graefen, M., Wiegel, T., Böhmer, D., Mohamad, O., Cowan, J.E., Feng, F.Y., Carroll, P.R., Trock, B.J., Partin, A.W., and D'Amico, A.V. (2021). Adjuvant versus Early Salvage Radiation Therapy for Men at High-Risk for Recurrence following Radical Prostatectomy for Prostate Cancer and the Risk of Death. *Journal of Clinical Oncology*. To appear.
6. King, M.T., Chen, M.-H., Collette, L., Neven, A., Bolla, M., and D'Amico, A.V. (2021). Association of prostate-specific antigen failure and mortality in men with locally advanced versus localized prostate cancer. *JAMA Network Open*, 4(5), e2111092. doi:10.1001/jamanetworkopen.2021.11092.
7. Shi, D., Chen, M.-H., Kuo, L., and Lewis, P.O. (2021). New partition based measures for data compatibility and information gain. *Statistics in Medicine*. To appear.
8. Li, H., Lim, D., Chen, M.-H., Ibrahim, J.G., Kim, S., Shah, A.K., and Lin, J. (2021). Bayesian Network Meta-Regression Hierarchical Models Using Heavy-Tailed Multivariate Random Effects with Covariate-Dependent Variances. *Statistics in Medicine*, 40, 3582-3603.
9. Chen, J., Zhang, Y., Simonsick, E., Starkweather, A., Chen, M.-H., McCauley, P., Chyun, D., Cong, X. (2021). Back pain and heart failure in community-dwelling older adults: Findings from the health ABC study. *Geriatric Nursing*, 42(3), 643-649.
10. Bitterman, D.S., Chen, M.-H., Wu, J., Renshaw, A.A., Loffredo, M., Kantoff, P.W., Small, E.J., D'Amico, A.D. (2021). PSA nadir and testosterone level at PSA failure following radiation and androgen suppression therapy for unfavorable risk prostate cancer and the risk of all cause and prostate cancer-specific mortality. *Cancer*. To appear.
11. Kim, D.W., Chen, M.-H., Wu, J., Huland, H., Graefen, M., Tilki, D., D'Amico, A.V. (2021). PSA ≤ 4 versus >4 ng/mL and the Risk of Prostate Cancer-Specific Mortality in Men with Biopsy Gleason Score 9-10 Prostate Cancer. *Cancer*. To appear.

12. Cilhoroz, B., Zaleski, A., Taylor, B.A., Fernhall, B., Chen, M.-H., Thompson, P.D., and Pescatello, L.S. (2021). The ambulatory blood pressure and heart rate variability responses following sudden vigorous physical exertion among firefighters with hypertension. *Turkish Journal of Sports Medicine*, 2021 Mar 02; <http://dx.doi.org/10.47447/tjism.0492>.
13. Pescatello, L.S., Wu, Y., Gao, S., Livingstondc, J., Sheppard, B., and Chen, M.-H. (2021). Do the combined blood pressure effects of exercise and antihypertensive medications add up to the sum of their parts? A systematic meta-review. *BMJ Open Sport & Exercise Medicine*, 7, e000895. doi:10.1136/bmjsem-2020-000895.
14. Wu, J., Chen, M.-H., Schifano, E.D., and Yan, J. (2021). Online Updating of Survival Analysis. *Journal of Computational and Graphical Statistics*. To appear. <https://doi.org/10.1080/10618600.2020.1870481>.
15. Sakaki, J.R., Melough, M.M., Li, J., Ha, K., Tamimi, R.M., Chavarro, J.E., Chen, M.-H., and Chun, O.K. (2020). Orange juice intake and anthropometric changes in children and adolescents. *Public Health Nutrition*. To appear.
16. Ma, Z., Hu, G., and Chen, M.-H. (2021). Bayesian Hierarchical Spatial Regression Models for Spatial Data in the Presence of Missing Covariates with Applications. *Applied Stochastic Models in Business and Industry*, 37, 342-359.
17. Sheikh, Md. T., Ibrahim, J.G., Gelfond, J.A., Sun, W., and Chen, M.-H. (2021). Joint Modelling of Longitudinal and Survival Data in the Presence of Competing Risks with Applications to Prostate Cancer Data. *Statistical Modelling*, 21(1-2), 72-94. <https://doi.org/10.1177/1471082X20944620>.
18. Zhang, F., Chen, M.-H., Cong, X., and Chen, Q. (2021). Assessing Importance of Biomarkers: a Bayesian Joint Modeling Approach of Longitudinal and Survival Data with Semicompeting Risks. *Statistical Modelling*, 21(1-2), 30-55. <https://doi.org/10.1177/1471082X20933363>.
19. Kim, S., Chen, M.-H., Ibrahim, J.G., Shah, A.K., and Lin, J. (2020). Bayesian Flexible Hierarchical Skew Heavy-Tailed Multivariate Meta Regression Models for Individual Patient Data with Applications. *Statistics and Its Interface*, 13, 485-500. DOI: 10.4310/20-SII613.
20. Gwon, Y., Mo, M., Chen, M.-H., Chi, Z., Li, J., Xia, H.A., and Ibrahim, J.G. (2020). Network Meta-Regression for Ordinal Outcomes: Applications in Comparing Crohn's Disease Treatments. *Statistics in Medicine*, 39, 1846-1870.
21. Kim, D.W., Chen, M.-H., Huland, H., Graefen, M., Tilki, D., and D'Amico, A.V. (2020). Advancing Age and the Risk of Adverse Pathology at Radical Prostatectomy in Men with Biopsy Gleason score 6 Prostate Cancer. *JAMA Network Open*, 3(4), e202041-e202041.
22. Chen, Q., Zhang, F., Chen, M.-H., and Cong, X. (2020). Estimation of Treatment Effects and Model Diagnostics with Two-way Time-Varying Treatment Switching: an Application to a Head and Neck Study. *Lifetime Data Analysis*, 26(4), 685-707. doi:10.1007/s10985-020-09495-0. NIHMSID: NIHMS1591068. PMID: 32125594.

23. de Castro, M., Chen, M.-H., Zhang, Y., and D’Amico, A.V. (2020). A Bayesian Multi-Risks Survival (MRS) Model in the Presence of Double Censorings. *Biometrics*, 76, 1297–1309. <https://doi.org/10.1111/biom.13228>. NIHMSID: NIHMS1591071. PMID: 31994171.
24. Wu, J., de Castro, M., and Chen, M.-H. (2020). Bayesian Survival Analysis in the Presence of Monotone Likelihoods. In *Springer Handbook of Engineering Statistics, 2nd* (ed. H. Pham). To appear.
25. Liu, Y., Geng, L., Wang, X., Zhang, D., and Chen, M.-H. (2020). Subgroup Analysis from Bayesian Perspectives. In *Design and Analysis of Subgroups with Biopharmaceutical Applications* (eds. N. Ting, J.C. Cappelleri, S. Ho, and D.-D. Chen). New York: Springer. pp. 331–345.
26. Ma, Z., Chen, M.-H., and Tang, Y. (2020). Bayesian Meta-Regression Model Using Heavy-Tailed Random-effects with Missing Sample Sizes for Self-thinning Meta-data. *Statistics and Its Interface*, 13, 437–447.
27. Sun, W., Jin, C., Gelfond, J.A., Chen, M.-H., and Ibrahim, J.G. (2020). Joint Analysis of Single Cell and Bulk Tissue Sequencing Data to Infer Intra-Tumor Heterogeneity. *Biometrics*, 76, 983-994.
28. Wang, Y.-B., Wang, Y.-B., Chen, M.-H., Shi, W., Lewis, P.O., and Kuo, L. (2020). Inflated Density Ratio and Its Variation and Generalization for Computing Marginal Likelihoods. *Journal of the Korean Statistical Society*, 49(1), 244-263. <https://doi.org/10.1007/s42952-019-00013-z>.
29. Deng, Q., Zhang, Y.-Y., Roy, D., and Chen, M.-H. (2020). Superiority of Combining Two Independent Trials in Interim Futility Analysis. *Statistical Methods in Medical Research*, 29(2), 522-540. doi:10.1177/0962280219840383.
30. Sakaki, J., Melough, M.M., Li, J., Tamimi, R.M., Chavarro, J.E., Chen, M.-H., and Chun, O.K. (2019). Associations between 100% orange juice consumption and dietary, lifestyle and anthropometric characteristics in a cross-sectional study of U.S. children and adolescents. *Nutrients*, 11, 2687. doi:10.3390/nu11112687.
31. Wu, J., Chen, M.-H., Schifano, E.D., Ibrahim, J.G., and Fisher, J.D. (2019). A New Bayesian Joint Model for Longitudinal Count Data with Many Zeros, Intermittent Missingness, and Dropout with Applications to HIV Prevention Trials. *Statistics in Medicine*, 38, 5565-5586.
32. Leeman, J., Chen, M.-H., Huland, H., Graefen, M., D’Amico, A.V., and Derya Tilki, D. (2019). Advancing Age and the Odds of Upgrading and Upstaging at Radical Prostatectomy in Men with Gleason Score 6 Prostate Cancer. *Clinical Genitourinary Cancer*, 17(6), e1116-e1121. doi:10.1016/j.clgc.2019.07.018.
33. Liu, Y., Hu, G., Cao, L., Wang, X., and Chen, M.-H. (2019). A Comparison of Monte Carlo Methods for Computing Marginal Likelihoods of Item Response Theory Models (with Discussion). *Journal of the Korean Statistical Society*, 48, 503-512 <https://doi.org/10.1016/j.jkss.2019.04.001> for the main paper and 522-523 <https://doi.org/10.1016/j.jkss.2019.07.001> for the rejoinder.

34. Yang, H.-C., Hu, G., and Chen, M.-H. (2019). Bayesian Variable Selection for Pareto Regression Models with Latent Multivariate Log Gamma Process with Applications to Earthquake Magnitudes. *Geosciences Journal*, *9(4)*, 169.
35. Zaleski, A.L., Taylor, B.A., Park, C.L., Santos, L.P., Panza, G.A., Kramarz, M., McCormick, K., Thompson, P.D., Fernandez, A.B., Chen, M.-H., Blissmer, B., Gans, K.M., and Pescatello L.S. (2019). Using the Immediate Blood Pressure Benefits of Exercise to Improve Exercise Adherence Among Adults with Hypertension: A Randomized Clinical Trial. *Journal of Hypertension*, *37(9)*, 1877-1888. doi:10.1097/HJH.0000000000002115. PMID: 31058797.
36. Liu, Y., Ma, X., Zhang, D., Geng, L., Wang, X., Zheng, W., and Chen, M.-H. (2019). Look Before You Leap: Systematic Evaluation of Tree-based Statistical Methods in Subgroup Identification. *Journal of Biopharmaceutical Statistics*, *29(6)*, 1082-1102.
37. Neupane, S., Fučíková, K., Lewis, L., Kuo, L., Chen, M.-H., and Lewis, P.O. (2019). Assessing Combinability of Phylogenomic Data using Bayes Factors. *Systematic Biology*, *68(5)*, 744-754. <https://doi.org/10.1093/sysbio/syz007>.
38. Pike, L.R.G., Wu, J., Chen, M.-H., Loffredo, M., Renshaw, A.A., Pfail, J., Kantoff, P.W., and D'Amico, A.V. (2019). Time to PSA Nadir and the Risk of Death from Prostate Cancer following Radiation and Androgen Deprivation Therapy. *Urology*, *126*, 145-151. <https://doi.org/10.1016/j.urology.2018.11.056>.
39. Lachos, V.H., Matos, L.A., Castro, L.M., and Chen, M.-H. (2019). Flexible Longitudinal Linear Mixed Models for Multiple Censored Responses Data. *Statistics in Medicine*, *38(6)*, 1074-1102. doi:10.1002/sim.8017.
40. Cilhoroz, B.T., Schifano, E.D., Ash, G.I., Panza, G.A., Corso, L., Chen, M.-H., Deshpande, V., Zaleski, A., Farinatti, P., Santos, L.P., Taylor, B.A., O'Neill, R.J., Thompson, P.D., and Pescatello, L.S. (2019). Furin variant associations with postexercise hypotension are intensity and race dependent. *Physiological Reports*, *7(3)*, e13952. <https://doi.org/10.14814/phy2.13952>.
41. Wang, Y.-B., Chen, M.-H., Kuo, L., and Lewis, P.O. (2019). Adaptive Partition Weighted Approach for Estimating Marginal Posterior Density with Applications. *Journal of Computational and Graphical Statistics*, *28(2)*, 334-349.
42. Ibrahim, J.G., Kim, S., Chen, M.-H., Shah, A.K., and Lin, J. (2019). Bayesian Multivariate Skew Meta-Regression Models for Individual Patient Data. *Statistical Methods in Medical Research*, *28(10-11)*, 3415-3436. <https://journals.sagepub.com/doi/full/10.1177/0962280218801147>.
43. Tilki, D., Chen, M.-H., Wu, J., Huland, H., Graefen, M., Braccioforte, M., Moran, B., and D'Amico, A.V. (2019). Surgery versus Radiation in the Management of Gleason Score 9,10 Prostate Cancer and the Risk of Death. *JAMA Oncology*, *5(2)*, 213-220. doi:10.1001/jamaoncol.2018.4836.

44. Li, H., Chen, M.-H., Ibrahim, J.G., Kim, S., Shah, A.K., Lin, J., and Tershakovec, A.M. (2019). Bayesian inference for network meta-regression using multivariate random effects with applications to cholesterol lowering drugs. *Biostatistics*, *20(3)*, 499-516. doi:10.1093/biostatistics/kxy014.
45. Thomas, H.R., Chen, M.-H., D'Amico, A.V., Bennett, C.L., Kattan, M.W., Sartor, Q., Stein, K., and Nguyen, P.L. (2018). Association between Androgen Deprivation Therapy and Patient-Reported Depression in Men with Recurrent Prostate Cancer. *Clinical Genitourinary Cancer*, *16(4)*, 313-317.
46. Mahal, B.A., Chen, M.-H., Renshaw, A.A., Loffredo, M.J., Kantoff, P.W., and D'Amico A.V. (2018). Early versus Delayed Initiation of Salvage Androgen Deprivation Therapy and the Risk of Prostate Cancer-Specific Mortality. *Journal of the National Comprehensive Cancer Network*, *16(6)*, 727-734. doi:10.6004/jnccn.2018.7010.
47. Hall, L.M., Hill, D.W., Bugduk, K., Cawley, S., Hall, L.H., Chen, M.-H., and Grant, D.F. (2018). Development of a Reverse Phase HPLC Retention Index Model for Nontargeted Metabolomics Using Synthetic Compounds. *Journal of Chemical Information and Modeling*, *58(3)*, 591-604. doi:10.1021/acs.jcim.7b00496.
48. Wang, C., Chen, M.-H., Wu, J., Yan, J., Zhang, Y., and Schifano, E.D. (2018). Online updating method with new variables for big data streams. *The Canadian Journal of Statistics*, *46(1)*, 123-146. doi:10.1002/cjs.11330. PubMed PMID: 29662263; PubMed Central PMCID: PMC5898930.
49. McDuff, S.G.R., Chen, M.-H., Renshaw, A.A., Loffredo, M., Kantoff, P.W., and D'Amico, A.V. (2018). Impact of Time to Testosterone Rebound and Comorbidity on the Risk of Cause-Specific Mortality in Men with Unfavorable-Risk Prostate Cancer. *Cancer*, *124(7)*, 1391-1399.
50. King, M., Chen, M.-H., Moran, B.J., Braccioforte, M.H., Buzurovic, I., Muralidhar, V., Yang, D.D., Mouw, K., Devlin, P.M., D'Amico, A.V., Nguyen, P.L., and Orio III, P.F. (2018). Brachytherapy Monotherapy May Be Sufficient for a Subset of Patients with Unfavorable Intermediate Risk Prostate Cancer. *Urologic Oncology: Seminars and Original Investigations*, *36(4)*, 157.e15-157.e20. doi:10.1016/j.urolonc.2017.11.022.
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409. Chen, M.-H. and Schmeiser, B.W. (1996). General Hit-and-Run Monte Carlo Sampling for Evaluating Multidimensional Integrals. *Operations Research Letters*, 19, 161-169.
410. Chen, M.-H. and Deely, J.J. (1996). Bayesian Analysis for a Constrained Linear Multiple Regression Problem for Predicting the New Crop of Apples. *Journal of Agricultural, Biological and Environmental Statistics*, 1, 467-489.
411. Nandram, B. and Chen, M.-H. (1996). Accelerating Gibbs Sampler Convergence in the Generalized Linear Models via a Reparameterization. *Journal of Statistical Computation and Simulation*, 54, 129-144.
412. Chen, M.-H., Nandram, B. and Ross, E.W. (1996). Bayesian Prediction of the Shelf-Life of a Military Ration with Sensory Data. *Journal of Agricultural, Biological and Environmental Statistics*, 1, 377-392.
413. Yang, R. and Chen, M.-H. (1995). Bayesian Analysis for Random Coefficient Regression Models Using Noninformative Priors. *Journal of Multivariate Analysis*, 55, 283-311.

414. Chen, M.-H. (1994). Importance Weighted Marginal Bayesian Posterior Density Estimation. *Journal of the American Statistical Association*, 89, 818-824.
415. Chen, M.-H. and Schmeiser, B.W. (1993). Performance of the Gibbs, Hit-and-Run, and Metropolis Samplers. *Journal of Computational and Graphical Statistics*, 2, 251-272.
416. Berger, J.O. and Chen, M.-H. (1993). Predicting Retirement Patterns: Prediction for a Multinomial Distribution with Constrained Parameter Space. *The Statistician (JRSS D)*, 42, 427-444.
417. Chen, M.-H. and Fan, W.-M. (1988). Confidence Bounds on the Reliability of Parallel System Tested with Fixed Number of Failures. *Journal of Shanghai Jiao Tong University*, 22, 2, 93-103 (in Chinese).
418. Fan, W.-M. and Chen, M.-H. (1987). Confidence Limits for the Reliability of a Coherent System with Arbitrary Life Components from the Life Test Data of Fixed Total Test Time. *Reliability Theory and Applications*, 89-100, World Scientific Publishing Co. Pte. Ltd., Singapore · New Jersey · Hong Kong (in English).
419. Chen, M.-H. and Fan, W.-M. (1987). Strict Optimum Confidence Bounds on the Reliability of a Complex System with Exponential Component Lives. *Journal of Shanghai Jiao Tong University*, 21, 5, 87-98 (in Chinese).
420. Yin, F.-C. and Chen, M.-H. (1987). Prediction Intervals for the Lifetimes of the Series System with Exponential Components. *Journal of Shanghai Jiao Tong University*, 21, 2, 49-54 (in Chinese).
421. Yang, C.-L., Chen, M.-H., and Li, P.-M. (1986). Properties and Calculation of UMVU Confidence Bound of Exponential Series System Reliability. *Journal of Shanghai Jiao Tong University*, 20, 4, 54-61 (in Chinese).
422. Chen, M.-H. and Fan, W.-M. (1986). Confidence Limits for the Reliability of a Complex System with Exponential Component Lives. *Journal of Shanghai Jiao Tong University*, 20, 4, 44-53 (in Chinese).

♠ Non-Refereed Proceeding Papers

1. Huang, P., Chen, M.-H., and Sinha, D. (2008). A latent model approach to study postural instability for Parkinsons disease. *IEEE Xplore*, 463-468.
2. D'Amico, A.V., Chen, M.-H., Ung, J., Renshaw, A.A., Cote, K., Loffredo, M., and Richie, J.P. (2002). Changing Natural History Following Surgery or Radiation Therapy for Localized Prostate Cancer During the Prostate-Specific Antigen Era. *American Society of Clinical Oncology*.
3. Chen, M.-H. (1996). Markov Chain Monte Carlo Sampling for Evaluating Multi-dimensional Integrals With Application to Bayesian Computation. In *Proceedings of the American Statistical Association, Bayesian Statistics Section*, 95-100.

4. Petrucci, J.D., Nandram, B., and Chen, M.-H. (1995). Implementation of a Modular Laboratory and Project-Based Statistics Curriculum. In *Proceedings of the Section on Statistical Education, American Statistical Association*.
5. Nandram, B. and Chen, M.-H. (1995), Reparameterizing the Generalized Linear Model to Accelerate Gibbs Sampler Convergence In *Proceedings of the American Statistical Association, Bayesian Statistics Section*.
6. Chen, M.-H. and Schmeiser, B.W. (1994). Random-Direction Interior-Point Markov Chains: A Family of Black-Box Samplers. In *Proceedings of the American Statistical Association, Bayesian Statistics Section*, 1-6.
7. Chen, M.-H. and Nandram, B. (1994). A Gibbs Sampling Approach for Predicting Shelf-Life of a Military Ration with Sensory Data. In *Proceedings of the American Statistical Association, Bayesian Statistics Section*, 84-89.
8. Chen, M.-H. (1993). Monte Carlo Markov Chain Sampling for Evaluating Multidimensional Integrals with Application to Bayesian Computation (Abstract). *IMS Bulletin*, 22, 532-533.

♠ Book Reviews

1. Chen, M.-H. (2003), *A Contingency Table Approach to Nonparametric Testing*, by J.C.W. Rayner and D.J. Best. *Technometrics*, 45, 105-106.

♠ Manuscripts under Revision or Submitted

1. Lim, D., Chen, M.-H., Ibrahim, J.G., Kim, S., Shah, A.K., and Lin, J. (2021). Bayesian Meta-Analysis and Network Meta-Analysis Using the metapack R Package. (Submitted to Journal of Statistics and Software).
2. Liu, F., Wang, X., Hancock, R., and Chen, M.-H. (2021). Bayesian Model Assessment for Jointly Modeling Multidimensional Response Data with Application to Computerized Testing. (Revising for Psychometrika). (Submitted to Biostatistics).
3. Sheikh, Md. T, Chen, M.-H., Gelfond, J.A., Sun, W., and Ibrahim, J.G. (2021). New Bayesian C-indices for Assessing Importance of Longitudinal Biomarkers in Fitting Competing Risks Survival Data in the Presence of Partially Masked Causes.
4. Zhang, J., Zhang, Y.-Y., Tao, J., and Chen, M.-H. (2021). Bayesian Item Response Theory Models with Flexible Generalized Logit Links. (Revising for Applied Psychological Measurement).
5. Wei, S., Chen, M.-H., Kuo, L., and Lewis, P.O. (2021). Bayesian Information and Dissonance. (Revised for Bayesian Analysis).
6. Sheikh, Md. T, Chen, M.-H., Gelfond, J.A., and Ibrahim, J.G. (2021). A power prior approach for leveraging external longitudinal and competing risks survival data within the joint modeling framework. (Revising for Statistics in Biosciences).

7. Joeng, H.-K., Adeniji, A.K., Ting, N., and Chen, M.-H. (2021). Estimation of Discrete Survival Function through Modeling Diagnostic Accuracy for Mismeasured Outcome Data. (Revising for Statistics in Biosciences).
8. Yuan, W., Chen, M.-H., and Zhong, J. (2021). Flexible Conditional Borrowing Approaches for Leveraging Historical Data in the Bayesian Design of Superiority Trials. (Revising for Statistics in Biosciences).
9. Yuan, W., Chen, M.-H., and Zhong, J. (2020). Bayesian design of superiority trials: methods and applications. (Submitted to Statistics in Biopharmaceutical Research).

9. Professional Presentations

1. "Performance of the Gibbs, Hit-and-Run, and Metropolis Samplers", presented in Fifth Purdue Symposium on Statistical Decision Theory and Related Topics, West Lafayette, Indiana, June 1992.
2. "Monte Carlo Markov Chain Sampling for Evaluating Multidimensional Integrals with Application to Bayesian Computation", Poster presentation, in the First IMS North American New Researchers Meeting, 4-7 August 1993, University of California, Berkeley, San Francisco.
3. "Importance Weighted Marginal Bayesian Posterior Density Estimation", Presented in the first annual meeting of the International Society for Bayesian Analysis, 6-7 August, 1993, San Francisco, California.
4. "Bayesian Computation via Hit-and-Run", Invited Lecture, Department of Statistics, University of Connecticut, October 20, 1993.
5. "Bayesian Marginal Posterior Density Estimation" Invited lecture, Department of Health Care Policy, Harvard School of Public Health, Harvard University, March 8, 1994.
6. "Bayesian Analysis for a Constrained Linear Multiple Regression Problem Using a Gibbs Hit-and-Run Sampler", presented at the Eighth New England Statistics Symposium, held at University of Rhode Island, Kingston, April 23, 1994.
7. "Simulating Ratios of Normalization Constants for the Gibbs Sampler", Poster in the Fifth International Meeting on Bayesian Statistics, Alicante, Spain, June 5-9, 1994.
8. "Simulating Ratios of Normalization Constants for the Gibbs Sampler and Marginal Density Estimation", Presented in the Second World Meeting of the International Society for Bayesian Analysis, Alicante, Spain, June 10-11, 1994.
9. "Random Direction Interior-Point Markov chains: A Family of Black-Box Sampler", Presented at the Joint Statistical Meeting of the American Statistical Association, Toronto, Canada, August 13-18, 1994.
10. "Black-Box Sampling: A Random-Direction Interior-Point Markov Chain Approach", Invited Lecture, Department of Statistics, Harvard University, September 28, 1994.

11. "On Monte Carlo Methods for Estimating Ratios of Normalizing Constants", presented in the Bayesian Methodology Seminar, Department of Biostatistics, Harvard School of Public Health, Harvard University, December 6, 1994.
12. "Bayesian Analysis for Categorical Data Models with Latent Variables", Invited Lecture, Department of Statistics, Harvard University, December 16, 1994.
13. "Ratio Importance Sampling", presented at the Ninth New England Statistics Symposium, held at University of Connecticut, Storrs, April 22, 1995.
14. "Reparametrizing the Generalized Linear Model to Accelerate Gibbs Sampler Convergence", Presented at the Joint Statistical Meeting of the American Statistical Association, Orlando, Florida, August 13-17, 1995.
15. "Monte Carlo Methods on Bayesian Analysis of Constrained Parameter Problems with Normalizing Constants", presented in the Bayesian Methodology Seminar, Department of Biostatistics, Harvard School of Public Health, Harvard University, March 12, 1996.
16. "Monte Carlo Methods on Bayesian Analysis of Constrained Parameter Problems with Normalizing Constants", Invited Speaker At INFORMS, Washington, D.C., May 5-8, 1996.
17. "Monte Carlo Markov Chain Sampling for Evaluating Multidimensional Integrals With Application To Bayesian Computation", Invited Speaker at 1995 Leonard J. Savage Thesis Award Competition session at 1996 Joint Statistical Meeting in Chicago, August 3-7, 1996.
18. "Bayesian Analysis of Longitudinal Binary Data Models Using Scale Mixture of Multivariate Normals Link Functions", Invited Speaker in Applied Statistics Colloquium Series, Mathematics Department, Boston University, March 6, 1997.
19. "Bayesian Analysis of Correlated Mixed Categorical Data by Incorporating Historical Prior Information", Invited Speaker, ICSA 1997 Applied Statistics Symposium, Rutgers University, New Jersey, May 30 - June 1, 1997.
20. "Bayesian Analysis of Correlated Mixed Categorical Data", Invited Lecture, In Department of Biometry & Statistics, School of Public Health, University at Albany, SUNY, One University Place, Rensselaer, NY 12144-3456, July 14, 1997.
21. "Monte Carlo Methods in Bayesian Computation", Invited Lecture, In Bell Laboratories, 600 Mountain Avenue, Murray Hill, NJ 07974, July 31, 1997.
22. "Prior Elicitation, Variable Selection, and Bayesian Computation for Logistic Regression Models", Invited Lecture, Department of Statistics, University of Florida, Gainesville, FL 32611, September 26, 1997.
23. "Bayesian Modeling and Computation for Correlated Ordinal Data Models", Invited Speaker At INFORMS, Dallas, Texas 75207, October 26-29, 1997.
24. "Prior Elicitation, Variable Selection, and Bayesian Computation", Invited Lecture, Institute of Statistics and Decision Sciences, Duke University, Durham, NC 27708, April 10, 1998.

25. "Discussion on Liu and Sabatti's Paper", Invited Discussant, presented in *Sixth Valencia International Meeting on Bayesian Statistics*, Gran Hotel Las Fuentes, Alcossebre, Spain, May 30 - June 4, 1998.
26. "Bayesian Predictive Inference for Time Series Count Data", Poster in *Sixth Valencia International Meeting on Bayesian Statistics*, Gran Hotel Las Fuentes, Alcossebre, Spain, May 30 - June 4, 1998.
27. "A New Bayesian Model for Survival Data with a Surviving Fraction", Invited Lecture, Department of Biostatistics and Epidemiology, St. Jude Children's Research Hospital, June 25, 1998.
28. "Monte Carlo Estimation of Bayesian HPD Intervals", Presented at the Joint Statistical Meeting of the American Statistical Association, Dallas, Texas, August 8-13, 1998.
29. "Bayesian Inference For Multivariate Survival Data With a Surviving Fraction", Invited Lecture, Division of Biostatistics, Department of Epidemiology and Public Health Yale School of Medicine, Yale University, October 5, 1998.
30. "Bayesian Inference For Multivariate Survival Data", Presented at The 1999 Spring Meeting of the International Biometric Society, Eastern North American Region, Atlanta, GA., March 28-31, 1999.
31. "Weighted Monte Carlo Estimators for Computing Posterior Quantities", Presented in an invited session on "Developments in MCMC: Theory and Applications" at the 31th Symposium on the Interface: Models, Predictions, and Computing, Schaumburg, Illinois, June 9-11, 1999.
32. "A New Bayesian Skewed Link Model for Binary Response Data", Presented in an invited session on "Bayesian Methods in Biostatistics" at 1999 ICSA Applied Statistics Symposium, Georgetown University, Washington, D.C., June 18-20, 1999.
33. "A Bayesian Analysis of Stock Return Predictability", Presented in an invited session on "Bayesian Methods in Finance and Marketing" at 1999 JSM, Baltimore, August 8-12, 1999.
34. "Bayesian Model Comparisons for Survival Data with A Cure Fraction", Presented in an invited session on "Model Choice and Related Issues" at International Society for Bayesian Analysis (ISBA) 6th World Meeting, Knossos Royal Village Hotel, Hersonissos Heraklion, Crete, Greece, May 28 - June 1, 2000.
35. "Bayesian Model Comparisons for Survival Data with A Cure Fraction", Presented in an invited session on "Bayesian Statistics" at International Conference on Statistics in the 21st Century, University of Maine, Orono, Maine, June 29 - July 1, 2000.
36. "Bayesian Computation after MCMC Sampling", Presented in an invited session on "Conferência em Estatística Computacional" at The 14th Brazilian Symposium of Probability and Statistics (SINAPE), Caxambu, Brazil, July 24-28, 2000.

37. Short Course on “Monte Carlo Methods in Bayesian Computation”, Three two hour sessions, Departamento de Estatística, Instituto de Matemática e Estatística, University of Sao Paulo, Brazil, 10:00am-12:00pm, August 1–3, 2000.
38. “Bayesian Predictive Inference for Time Series Count Data”, Presented in a SBSS Topic Contributed Session on “Diverse Applications of Predictive Inference” at 2000 JSM, Indianapolis, Indiana, August 13–17, 2000.
39. “Conjugate Priors for Generalized Linear Models”, Invited Lecture, Department of Statistics & Actuarial Science, The University of Iowa, Iowa City, October 19, 2000.
40. “Conjugate Priors for Generalized Linear Models”, Invited Lecture, Department of Statistics, Purdue University, West Lafayette, Indiana, February 14, 2001.
41. “Conjugate Priors for Generalized Linear Models”, Invited Lecture, Division of Statistics, Northern Illinois University, DeKalb, Illinois, March 2, 2001.
42. Short Course (full day) on “Beyond MCMC Workshop”, at SSC/WNAR/IMS 2001 conference, Simon Fraser University Burnaby, B.C., Canada, June 14, 2001.
43. Short Course (full day) on “Monte Carlo Methods in Bayesian Computation”, at 2001 JSM, Atlanta, GA., August 5, 2001.
44. “Bayesian Methods for Generalized Linear Models with Covariates Missing at Random”, Invited Lecture, Department of Mathematics and Statistics, University of Massachusetts, October 24, 2001.
45. “Partition-Weighted Monte Carlo Estimation”, Invited Lecture, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan, December 31, 2001.
46. “Bayesian Methods for Generalized Linear Models with Covariates Missing at Random”, Invited Lecture, National Health Research Institutes, Academia Sinica, Taipei, Taiwan, January 2, 2002.
47. “Conjugate Priors for Generalized Linear Models”, Invited Lecture, Department of Mathematics, National Taiwan University, Taipei, Taiwan, January 3, 2002.
48. Short Course (full day) on “Bayesian Survival Analysis”, at The 2002 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Arlington, VA, March 17, 2002.
49. “Bayesian Methods for Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Vaccine Studies”, Invited talk (in an invited session on “Joint Modeling of Longitudinal and Survival Data”) at The 2002 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Arlington, VA, March 17-20, 2002.
50. “Discussion on S. Chib’s Paper”, Invited Discussant by the Organizing Committee of The 7th Valencia International Meeting on Bayesian Statistics held in Playa de la Americas, on the south coast of Tenerife, Spain, June 1st—June 6, 2002.
51. “Dimension-Reduction Methods for Computing Marginal Likelihoods from the MCMC Output”, Invited Speaker, The First Cape Cod Workshop on Monte Carlo Methods, Cape Cod, Massachusetts, September 13-14, 2002.

52. “Bayesian Computation: from Marginal Posterior Densities and Marginal Likelihoods”, Invited Speaker, The Mid-Term Workday for Model Selection, SAMSI Stochastic Program, Research Triangle Park, NC, January 30, 2003.
53. “Bayesian Analysis of Nonproportional Hazards Models for Survival Data”, Invited Speaker, International Conference on Reliability and Survival Analysis 2003, University of South Carolina, Columbia, SC, May 21—May 24, 2003.
54. “On Propriety of the Posterior Distribution and Existence of the Maximum Likelihood Estimator for Regression models with Missing Covariates”, Invited Speaker, Seventh Purdue International Symposium on Statistics, Purdue University, West Lafayette, IN, June 19–June 24, 2003.
55. Short Course (full day) on “Advanced Bayesian Applications: Bayesian Survival Analysis”, at the 2003 JSM, San Francisco, CA., August 4, 2003.
56. “Bayesian Criterion-Based Model Assessment for Categorical Data” Presented in a SBSS Topic Contributed Session on “Bayesian Model Choice with Applications” at the 2003 JSM, San Francisco, CA, August 3–7, 2003.
57. “A New Model for Longitudinal and Survival Data with A Cure Fraction”, Invited talk (in an invited session on “Bayesian Methods in Survival Analysis”) at The 2004 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Pittsburgh, PA, March 28-31, 2004.
58. “Computing Marginal Likelihoods from a Single MCMC Output”, Invited Speaker in an invited session on “Computing Intensive Methodologies in Bayesian Statistics” at The 2004 International Chinese Statistical Association Applied Statistics Symposium, San Diego, CA, June 6-9, 2004.
59. “Computing Marginal Likelihoods from A Single MCMC Output”, Invited Speaker at the Workshop on Bayesian Model Selection, Utrecht, Netherlands, July 7-9, 2004.
60. “Theory and Inference for Cox Regression Models with Missing Covariates”, Invited Speaker in an invited session on “Lifetime Data Analysis” at The 6th ICISA International Conference, Singapore, July 21-23, 2004.
61. “Semi-automatic Informative Priors via The Relationship Between the Power Prior and Hierarchical Models”, Presented in a SBSS Topic Contributed Session on “Bayesian Methods in Generalized Linear Models” at the 2004 JSM, Toronto, Canada, August 8-12, 2004.
62. Short Course (full day) on “Missing Data Methods in Regression Models”, at the 2004 JSM, Toronto, Canada, August 8-12, 2004.
63. “Bayesian Inference and Computation for the Cox Regression Model with Missing Covariates”, Invited Speaker, The Second Workshop on Monte Carlo Methods, Cambridge, Massachusetts, August 27-28, 2004.
64. “Bayesian Inference and Computation for the Cox Regression Model with Missing Covariates”, Invited Speaker at The IMS Workshop on Semi-parametric Methods

- for Survival and Longitudinal Data, Institute for Mathematical Sciences, National University of Singapore, Singapore, March 7, 2005.
65. “Bayesian Methods for Survival and Longitudinal Data”, Invited Tutorial Lectures, The IMS Workshop on Semi-parametric Methods for Survival and Longitudinal Data, Institute for Mathematical Sciences, National University of Singapore, Singapore, March 8-9, 2005.
 66. “Competing Risk Modeling for Assessing the Association between PSA Kinetics and Prostate Cancer Specific Mortality”, Invited talk (in an invited session on “Bayesian and Non-Bayesian Approaches to Competing Risks”) at The 2005 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Austin, TX, March 20-23, 2005.
 67. “A Latent Structural Model for Postural Instability Process in Parkinson’s Disease”, Invited Speaker in an invited session on “Bayesian Modeling and Monte Carlo Methods” at The 2005 International Chinese Statisticians Association Applied Statistics Symposium, Bethesda, Washington D.C. Metropolitan Area, June 12-15, 2005.
 68. “Bayesian Analysis for Generalized Linear Models with Nonignorable Missing Covariates”, Invited Lecture, Department of Mathematics, Shanghai Jiaotong University, Shanghai, China, July 6, 2005.
 69. “Bayesian Analysis of the Mixed Models for Repeated Binary Response and Time-Dependent Missing Covariates”, Invited Speaker in an invited session on “Bayesian Methods and MCMC” at the Joint Meeting of CSPA and IMS, July 9-12, 2005, Beijing, China.
 70. “Introduction to Bayesian Analysis”, Invited Lecture, PAREXEL International Corporation, Waltham, MA 02451, May 9, 2006.
 71. “A Latent Process Model for the Detection of Postural Instability in Parkinson’s Disease”, Invited Lecture, Department of Methodology and Statistics, University Utrecht, Utrecht, The Netherlands, May 15, 2006.
 72. Short Course (full day) on “Bayesian Methods for Survival and Longitudinal Data” at The 2006 International Chinese Statistical Association Applied Statistics Symposium, Storrs, CT, June 14, 2006.
 73. “Model Identifiability for the Cox Regression Model with Applications to Missing Covariates”, Invited Speaker in an invited session on “Challenges in Survival Analysis with Incomplete Covariates” at The 2006 International Chinese Statistical Association Applied Statistics Symposium, Storrs, CT, June 14-17, 2006.
 74. “Flexible Generalized t-Link Models for Binary Response Data”, Invited Speaker in an invited session on “Monte Carlo Method” at The 2006 WNAR/IMS Meeting Flagstaff, Arizona, June 27-30, 2006.
 75. “Bayesian Dynamic Models for Survival Data with a Cure Fraction”, Invited Speaker in an invited session on “Nonparametric Estimation for Survival Data”

- at the SCRA2006 | FIM XIII - Thirteenth International Conference of Forum for Interdisciplinary Mathematics, Tomar, Portugal, September 1-4, 2006.
76. Short Course (full day) on “Missing Data Methods in Regression Models”, at The 2007 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Atlanta, GA, March 11-13, 2007.
 77. “XMISS in Cytel Studia 7 for Regression Models with Missing Covariates”, Invited talk in an invited session on “Introductory Lecture Session: Software Packages for Handling Missing Data” at The 2007 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Atlanta, GA, March 11-13, 2007.
 78. “Recent Development of Bayesian Cure Rate Models for Survival Data”, Invited Lecture, Department of Statistics, Texas A&M University, College Station, TX, May 2, 2007.
 79. “Objective Bayesian Variable Selection for Logistic Regression Models with Jeffreys’s Prior”, Invited Speaker, The Third Workshop on Monte Carlo Methods, Cambridge, Massachusetts, May 13-14, 2007.
 80. “Bayesian Variable Selection and Computation for Generalized Linear Models with Conjugate Priors”, Invited Speaker, The Fourth Conference on Frontiers in Applied and Computational Mathematics, New Jersey Institute of Technology, Newark, NJ, May 15-16, 2007.
 81. “Bayesian Variable Selection and Computation for Generalized Linear Models with Conjugate Priors”, Invited Speaker in an invited session on “Bayesian Methods for High-Dimensional Data” at The 2007 International Chinese Statistical Association Applied Statistics Symposium, Raleigh, NC, June 3-6, 2007.
 82. “Bayesian Model Selection Criteria for the Selection of Constrained Models”, Invited Speaker, The Workshop on “Null, Alternative and Informative Hypotheses”, Department of Methods and Statistics/FSS, Utrecht, The Netherlands, July 5-6, 2007.
 83. “Objective Bayesian Variable Selection for Logistic Regression Models with Jeffreys’s Prior”, Presented in a SBSS Topic Contributed Session on “The Current Trend of Bayesian Model Comparison and Variable Selection” at the 2007 JSM, Salt Lake City, Utah, July 29 - August 2, 2007.
 84. “A New Latent Cure Rate Marker Model for Survival Data”, Invited Lecture, Division of Biostatistics, Department of Epidemiology and Public Health Yale School of Medicine, Yale University, September 26, 2007.
 85. “Flexible Generalized t -Link Models for Binary Response Data”, Invited Lecture, Department of Mathematics and Statistics, University of Massachusetts, October 1, 2007.
 86. “Objective Bayesian Variable Selection for Binomial Regression Models with Jeffreys’s Prior”, Invited Speaker, Tenth Annual Winter Workshop on Bayesian

- Model Selection and Objective Methods, Department of Statistics, University of Florida, Gainesville, Florida, January 11-12, 2008.
87. “Detecting Differentially Expressed Genes via Multilevel Nonlinear Mixture Dirichlet Models with High-dimensional EST Data”, Invited talk in an invited session on “Regularization and Hierarchical Modeling: Two Philosophies for Variable Selection” at The 2008 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Arlington, VA, March 16-19, 2008.
 88. “Objective Bayesian Variable Selection for Binomial Regression Models with Jeffreys’s Prior”, Invited Lecture, Department of Statistics, Penn State University, State College, PA, April 10, 2008.
 89. “Bayes Factor versus Other Model Selection Criteria for the Selection of Constrained Models”, Invited talk at the International Indian Statistical Association Conference on “Frontiers of Probability and Statistical Science”, Storrs, Connecticut, May 22-25, 2008.
 90. “A New Latent Cure Rate Marker Model for Survival Data”, Invited talk in an invited session on “Bayes and Empirical Bayes Approaches” at the ICSA 2008 Applied Statistics Symposium, Embassy Suite Hotel, Piscataway, New Jersey, June 4-7, 2008.
 91. “Bayesian Model Selection for Regression Models with Noninformative Prior”, Invited Speaker, Conference on “Recent Developments in Statistics and Their Applications — In Memory of Professor Yao-Ting Zhang”, Wuhan University, Wuhan, China, June 21-22, 2008.
 92. “History and Current Development of Bayesian Analysis”, Invited Lecture, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China, June 24, 2008.
 93. “Bayesian Latent Cure Rate Marker Model for Survival Data”, Invited Lecture, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China, June 25, 2008.
 94. “Flexible Generalized t -Link Models for Binary Response Data”, Invited Lecture, School of Information, Renmin University, Beijing, China, June 25, 2008.
 95. “Bayesian Structural Equations Models for Longitudinal Surveys Data with Missing Responses and Covariates”, Presented in a SBSS Topic Contributed Session on “Recent Development of Bayesian Methods for Missing Data” at the 2008 JSM, Denver, Colorado, August 3 - 7, 2008.
 96. “A New Latent Cure Rate Marker Model for Survival Data”, Invited Lecture, Department of Statistics, University of Missouri-Columbia, April 1, 2009.
 97. “Bayesian Variable Selection for the Cox Regression Model with Missing Covariates”, Invited Lecture, Department of Biostatistics, School of Public Health, University of Medicine and Dentistry of New Jersey, May 22, 2009.
 98. “Maximum Likelihood Inference for the Cox Regression Model with Missing Covariates”, Invited talk in an invited session on “Emerging Issues in Missing Data

- Analysis”, at the ICSA 2009 Applied Statistics Symposium, SFO Westin Hotel, Millbrae, California, June 21-24, 2009.
99. “Preparation and Survival Tips for Academic Career”, Invited Speaker in the ICSA and ASA SF Bay Area Joint Career Evening at the ICSA 2009 Applied Statistics Symposium, SFO Westin Hotel, Millbrae, California, June 21-24, 2009.
 100. “Bayesian Choice of Links and Computation in Binary Regression Models”, Presented in a SBSS Topic Contributed Session on “Recent Development of Bayesian Model Comparison and Variable Selection” at the 2009 JSM, Washington, DC, August 2 - 6, 2009.
 101. “Methods and Inferences for the Survival Models with Missing Covariates”, Invited Talk at the 8th Annual ASA CT Chapter Mini-Conference, The Analysis of Incomplete Data – From Past to Future, Storrs, Connecticut, March 2, 2010.
 102. “Models and Methods for Meta-Analysis”, Presented in an Invited Session on “Evidence Synthesis” at The 33rd Annual Midwest Biopharmaceutical Statistical Workshop, Ball State University Alumni Center, Muncie, IN, May 24 - 26, 2010.
 103. “Bayesian Design of Non-Inferiority Trials for Medical Devices Using Historical Data”, Presented in an Invited Session on “Methodological and Software Development for Bayesian Clinical Trials Designs” at the ICSA 2010 Applied Statistics Symposium, Hyatt Regency Downtown Indianapolis, IN, June 20-23, 2010.
 104. “Maximum Likelihood Based Inference of Meta Data via EM Algorithm”, Presented in a Biopharm Topic Contributed Session on “Evidence Synthesis in Drug Development” at the 2010 JSM, Vancouver, BC, Canada, July 31 - August 5, 2010.
 105. “A New Threshold Regression Model for Survival Data with a Cure Fraction”, Presented in an Invited Session on “Bayesian Theory and Method” at the 8th ICSA International Conference, Guangzhou University, Guangzhou, China, December 19-22, 2010.
 106. “Properties, Implementation, and Application of Jeffreys’s Prior in Binomial Regression Models”, Invited Lecture, Department of Mathematics, Zhejiang University, Hangzhou, China, December 31, 2010.
 107. “Bayesian Meta-Experimental Design: Evaluating Cardiovascular Risk in New Antidiabetic Therapies to Treat Type 2 Diabetes”, Invited Lecture, Department of Mathematics and Statistics, Boston University, MA, March 10, 2011.
 108. “Bayesian Design of Non-Inferiority Trials using Historical Data via Power Priors”, Invited talk in an invited session on “Bayesian Clinical Trials in Practice: When Rubber Meets the Road” at The 2011 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Miami, FL, March 20-23, 2011.
 109. “Bayesian Inference of An Extended Subdistribution Model for Survival Data with Competing Risks”, Invited Lecture, Division of Epidemiology, Statistics and

- Prevention Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, Rockville, MD, June 15, 2011.
110. “Bayesian Modeling and Inference for Data with Informative Treatment Switching or Dropout”, Invited talk in an invited session on “Recent Developments in Methods for Handling Missing Data” at the ICSA 2011 Applied Statistics Symposium, the Westin New York Hotel at Times Square, New York, NY, June 26-29, 2011.
 111. “Bayesian Modeling and Inference for Data with Informative Treatment Switching or Dropout”, Invited talk in an invited Health Policy Statistics (SHPS) session on “Latest Developments on Analysis of Missing Data” at the 2011 JSM, Miami Beach, FL, July 31 - August 4, 2011.
 112. “Bayesian Inference of Cox Model with Gamma Process Priors in Presence of Tie”, Invited Lecture, IBM Thomas J. Watson Research Center, Yorktown Heights, NY, August 18, 2011.
 113. “Bayesian Hierarchical Modeling and Selection of Differentially Expressed Genes for the EST Data”, Invited Lecture, Division of Biostatistics and Bioinformatics, Research Program in Quantitative Sciences Seminars, Johns Hopkins, Baltimore, MD, October 20, 2011.
 114. “Bayesian Meta-Experimental Design for Evaluation of Cardiovascular Risk”, Invited Lecture, Division of Biostatistics, University of Maryland Greenebaum Cancer Center, Baltimore, MD, October 21, 2011.
 115. “A Bayesian Hierarchical Model for Correlated Microarray Datasets”, Invited Lecture, Division of Biostatistics, Department of Epidemiology and Public Health Yale School of Medicine, Yale University, November 15, 2011.
 116. “Bayesian Gamma Frailty Models for Survival Data with Semi-Competing Risks and Treatment Switching”, Invited talk in an invited session on “Semi-Competing Risks” at The 2012 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Washington, DC, April 1-4, 2012.
 117. “Bayesian Hierarchical Models with Applications”, Invited Tutorial Lecture, Department of Operations and Information Management, School of Business, University of Connecticut, April 13, 2012.
 118. “Bayesian Design of Non-Inferiority Clinical Trials via the Bayes Factor”, Invited talk in an invited session on “Statistical Methods in Medical Devices and Diagnostics Development” at the ICSA 2012 Applied Statistics Symposium, The Westin Boston Waterfront, Boston, MA, June 23-26, 2012.
 119. “Bayesian Design of Non-Inferiority Clinical Trials via Bayes Factor”, Invited talk in an invited session on “Bayesian Clinical Trial Design and Application” at The Second Joint Biostatistics Symposium, Renmin University of China, Beijing, China, July 8-9, 2012.
 120. “Bayesian Gamma Frailty Models for Survival Data with Semi-Competing Risks

- and Treatment Switching”, Invited Lecture, School of Public Health and Family Medicine, Capital Medical University, Beijing, China, July 10, 2012.
121. “Monte Carlo Methods in Bayesian Computation”, Invited Workshop, Center for Statistical Science, Peking University, Beijing, China, July 11, 2012.
 122. “Bayesian Inference of Cox Model with Gamma Process Priors in Presence of Ties”, Invited Lecture, Institute of Computational Mathematics, Academy of Mathematics & Systems Science (AMSS), Chinese Academy of Sciences, Beijing, China, July 12, 2012.
 123. “Multivariate Meta-Analysis Box-Cox Transformation Models for Individual Patient Data with Applications to Evaluation of Cholesterol Lowering Drugs”, Presented in a SBSS Topic Contributed Session on “Bayesian Modeling: Application in Clinical Trial Design and Analysis” at the 2012 JSM, San Diego, CA, July 30-August 2, 2012.
 124. “Bayesian Analysis of Survival Data with Semi-Competing Risks and Treatment Switching”, Invited Lecture, Department of Statistics, University of South Carolina, SC, October 11, 2012.
 125. “Bayesian Design of Non-Inferiority Clinical Trials Using Historical Data”, Invited Lecture, Department of Biostatistics, UT M.D. Anderson Cancer Center, Houston, TX, October 22, 2012.
 126. “Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome”, Invited talk in an invited session on “Design of Clinical Trials for Time-to-Event Data” at The 2013 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Orlando, FL, March 13, 2013.
 127. “Bayesian Decision Rule Based Design of Non-Inferiority Clinical Trials Using Historical Data with Applications”, Invited Talk at the Eleventh Annual ASA Connecticut Chapter Mini-Conference, Bristol-Myers Squibb, Wallingford, CT, March 27, 2013.
 128. “Development of Power Priors for Incorporating Historical Data with Applications”, Invited Talk at DIMACS Workshop on Analysis of Information from Diverse Sources, DIMACS Center, CoRE Building, Rutgers University, NJ, May 16-17, 2013.
 129. “Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome”, Invited talk in the Jiann-Ping Hsu Invited Session on Biostatistical and Regulatory Sciences at the 2013 ICSA/ISBS Joint Statistical Conference, Bethesda, Maryland, June 9-12, 2013.
 130. “Bayesian Design of Non-Inferiority Clinical Trials Using Historical Data with Applications”, Invited Lecture, FDA/CDRH/OSB/Division of Biostatistics, U.S. Food and Drug Administration, Silver Spring, Maryland, June 12, 2013.

131. “Power Priors for Incorporating Historical Data with Applications”, Invited Lecture, School of Finance and Statistics, East China Normal University, Shanghai, China, June 25, 2013.
132. “Bayesian Parametric, Semiparametric, Frailty, and Cure Rate Models for Survival Data”, Invited Workshop, presented in the 2013 Zhejiang University Probability and Statistics Summer Workshop, Department of Mathematics, Zhejiang University, Hangzhou, China, June 27, 2013.
133. “Bayesian Design of Non-Inferiority Clinical Trials”, Invited Lecture, Department of Mathematics, Shanghai Jiao Tong University, Shanghai, China, July 1, 2013.
134. “Bayesian Design of Non-Inferiority Trials using Historical Data via Power Priors”, Invited Lecture, Boehringer Ingelheim Pharmaceuticals, Inc. at Shanghai, China, July 5, 2013.
135. “Bayesian Inference for Multivariate Meta-Analysis Box-Cox Transformation Models for Individual Patient Data with Applications to Evaluation of Cholesterol Lowering Drugs”, Invited Speaker, The ICSA-Canada Chapter 2013 Symposium, Toronto, Canada, August 2-3, 2013.
136. “Bayesian Design of Non-Inferiority Clinical Trials via Conditional Borrowing of Historical Data with Applications”, Invited Talk in a SBSS Topic Contributed Session on “Bayesian Statistics with Biomedical Applications” at the JSM 2013, Montréal, Quebec, Canada, August 5-8, 2013.
137. “Bayesian Models for Survival Data with a Cure Fraction and Semi-Competing Risks”, Presented in an Invited Session on “Recent Development in Bayesian Inference for Censored Data” at the Ninth ICSA International Conference, Hong Kong Baptist University, Hong Kong, December 20-23, 2013.
138. “Assessing Model Fit in Joint Models of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Speaker, Novartis China Biostatistics Workshop, Novartis Campus, Shanghai, China, December 26-27, 2013.
139. “Bayesian Model Fit Assessment in Joint Models of Longitudinal and Survival data with Applications to Cancer Clinical Trials”, Invited Speaker, Workshop on Frontier Problems in Modern Statistics, Shanghai Jiao Tong University, Shanghai, China, December 28, 2013.
140. “Bayesian Design of Medical Device Trials via Conditional Borrowing of Historical Data”, Invited Speaker, The 7th Annual FDA/MTLI Medical Device and IVD Statistical Issues Workshop on “Learning from the Past: The Practice of Bayesian Statistics in Medical Device Trials”, Washington Marriott at Metro Center, Washington, DC, April 30, 2014.
141. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Speaker, Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data: A Conference Honoring Professor Malay Ghosh, College Park, Maryland, May 29-31, 2014.

142. “Bayesian Joint Modeling of Multi-dimensional Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited talk in an Invited Session on “Recent Developments in Survival Analysis” at the 2014 ICSA-KISS Applied Statistics Symposium, Portland, Oregon, June 15-18, 2014.
143. “Bayesian Probability of Success for Clinical Trials Using Historical Data”, Invited Speaker, the 2014 ICSA China Statistics Conference, East China Normal University, Shanghai, China, July 4-5, 2014.
144. Short Course (3 full days) on “Bayesian Statistics”, Presented at the Statistics Graduate Summer School, School of Mathematics and Statistics, Northeast Normal University, Changchun, China, July 10-July 12, 2014.
145. “Statistical Methodological Developments in Joint Modeling of Longitudinal and Survival Data”, Invited Presentation, Eli Lilly and Company, Indianapolis, Indiana, July 29, 2014.
146. “Bayesian Modeling and Inference of Survival Data with Semi-Competing and Competing Risks”, Invited Talk in a Biometrics Section Invited Session on “Recent Developments on the Analysis of Semi-Competing Risks Data” at the JSM 2014, Boston, MA, August 3-7, 2014.
147. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Lecture, Department of Mathematical Sciences, WPI, Worcester, MA, September 15, 2014.
148. “Online Updating of Statistical Inference in the Big Data Setting”, Invited Lecture, UTSA COB Management Science & Statistics Seminar Series, University of Texas at San Antonio, San Antonio, TX, October 31, 2014.
149. “Assessing Covariate Effects with Monotone Partial Likelihood Using Jeffreys’ Prior in the Cox Model”, Invited Talk in an invited session on “Emerging Issues in Clinical Trials and High Dimensional Data” at The 2015 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Miami, FL, March 15-18, 2015.
150. “Bayesian Path Specific Frailty Models for Multi-state Survival Data with Applications”, Invited Talk in an invited session on “Emerging Issues in Time-to-Event Data” at the Joint 24th ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins, CO, June 14-17, 2015.
151. “Bayesian Design of Non-Inferiority Clinical Trials Using Historical Data with Applications”, Invited Talk in an invited session on “Bayesian Non-inferiority Clinical Trials: Case Studies” at the ISBS-DIA Joint Symposium on Biopharmaceutical Statistics, Beijing Marriott Hotel City Wall, Beijing, China, June 29 - July 1, 2015.
152. “Online Updating of Statistical Inference in the Big Data Setting”, Invited Lecture, Institute of Computational Mathematics, Academy of Mathematics & Systems Science (AMSS), Chinese Academy of Sciences, Beijing, China, July 1, 2015.

153. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Talk in an invited session on “Recent Development on Modern Bayesian Statistics” at the 5th IMS-China International Conference on Statistics and Probability, Yun-An Auditorium, Kunming, China, July 1-4, 2015.
154. “Online Updating of Statistical Inference in the Big Data Setting”, Invited talk at the 2015 “Big Data Statistics, Financial Econometrics and Beyond” Workshop, Shanghai University of Finance and Economics, Shanghai, China, July 6, 2015.
155. “Assessing Covariate Effects with Monotone Partial Likelihood Using Jeffreys’ Prior in the Cox Model”, Invited Talk in an invited session on “Advances in Clinical Biostatistics” at the 2015 ICSA China Statistical Conference, Jianguo Hotel, Shanghai, China, July 6-7, 2015.
156. “The Power Prior in Bayesian Designs of Clinical Trials”, Invited Talk in a Biometrics Section Invited Session on “Power Priors: Past and Present” at the JSM 2015, Washington State Convention Center, Seattle, WA, August 8 - 13, 2015.
157. “Joint Modeling of Longitudinal and Survival Data”, Invited Presentation joined with Fan Zhang, Boehringer Ingelheim Pharmaceuticals, Inc., Danbury, Connecticut, September 30, 2015.
158. “Estimation of Discrete Survival Function through the Modeling of Diagnostic Accuracy for Mismeasured Outcome Data”, Invited Lecture at Department of Biostatistics, School of PPHP, the State University of New York at Buffalo, NY, October 29, 2015.
159. “A Bayesian Cure Rate Frailty Model for Survival Data in the Presence of Semi-Competing and Competing Risks”, Invited Talk in an invited session on “Emerging Issues in Clinical Trials with Time-to-Event Data in the Presence of Competing Risks” at The 2016 Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Austin, TX, March 6-9, 2016.
160. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Lecture at Department of Biostatistics, School of Medicine, Vanderbilt University, March 16, 2016.
161. “Data Acquisition, Management, and Analysis in Scientific Research”, Invited Instructor, Spring 2016 RCR Training Workshop, Research Compliance Services, Office of the Vice President for Research, University of Connecticut, April 15, 2016.
162. “Bayesian Multivariate Skew Meta-Regression Models for Individual Patient Data”, Invited Talk in an invited Session on “Applications of Bayesian Analysis in Clinical Trials” at the 2016 ICSA-China Statistics Conference, Qingdao, China, June 24-25, 2016.
163. “The Power Priors: Theory and Applications”, Invited Talk in an invited Session on “Recent Advances and Challenges of Big Data Inference with Complex Structures” at the 4th IMS-APRM, The Chinese University of Hong Kong, Hong Kong, June 27-30, 2016.

164. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Invited Lecture at Department of Applied Statistics, Yonsei University, Seoul, Korea, July 8, 2016.
165. “Estimation and Models for Longitudinal and Survival Data with Treatment Switches”, Invited Talk in a Biometrics Section Invited Session on “Joint Modeling of Survival Time with Another Outcome in Clinical Trials or Observation Studies” at the JSM 2016, McCormick Place, Chicago, IL, July 31 - August 3, 2016.
166. “Bayesian Modeling and Inference for Nonignorably Missing Longitudinal Response Data with Applications to HIV Prevention Trials”, Invited Talk in an Invited Session on “Modern Bayesian Methods in Big Data and Precision Medicine” at The 10th ICSA International Conference, Shanghai Jiao Tong University, Shanghai, China, December 19-22, 2016.
167. “A Bayesian Cure Rate Frailty Model for Survival Data in the Presence of Semi-Competing and Competing Risks”, Keynote Talk, the 2016 Big Data and Statistics Forum, Center for Statistical Sciences and Mathematical College, Sichuan University, Chengdu, China, December 24, 2016.
168. “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, Keynote Talk, Brazilian School of Regression Models XV, Goiânia, state of Goiás, Brazil, March 26-29, 2017.
169. “Recent Development on CPO Statistics in Joint Modeling of Longitudinal and Survival Data”, Invited Talk in Invited Session 19 on “Emerging Statistical Inference Methods in the Era of Data Science” at the 2017 Spring Research Conference, Rutgers University, New Brunswick, NJ, May 17-19, 2017.
170. “A Bayesian Cure Rate Frailty Model for Survival Data in the Presence of Semi-Competing and Competing Risks”, Invited Talk in Invited Session 57 on “Recent Development on Competing and Semi-Competing Risks” at the 2017 Conference on Lifetime Data Science Storrs, CT, May 25-27, 2017.
171. “A Partition Weighted Kernel (PWK) Method for Estimating Marginal Likelihoods with Application”, Invited Seminar Lecture at Department of Biostatistics, University of Florida, Gainesville, FL, June 16, 2017.
172. “Bayesian Multivariate Skew Meta-Regression Models for Individual Patient Data”, Invited Talk at the 2017 ICSA Applied Statistics Symposium, Hilton Chicago Downtown, Chicago, IL, June 26-28, 2017.
173. “Bayesian Computation: From Posterior Densities to Bayes Factors, Marginal Likelihoods, and Posterior Model Probabilities”, Invited Tutorial Lecture, presented at the 2nd ISBA-EAC Conference, Northeast Normal University, Changchun, China, July 6, 2017.
174. Short Course (4 full days) on “Bayesian Statistics”, Presented at the Statistics Graduate Summer School, School of Mathematics and Statistics, Yunnan University, Kunming, China, July 10-July 13, 2017.

175. “Survival Analysis Adjusting for Treatment Switch as well as Joint Modeling with Longitudinal Data”, Invited Lecture, Boehringer Ingelheim Pharmaceuticals, Inc. at Shanghai, China, July 19, 2017.
176. “A Partition Weighted Kernel (PWK) Method for Estimating Marginal Likelihoods with Application”, Invited talk in ISBA Topic Contributed Session 327 on “Bayesian Variable Selection”, 2017 JSM, Baltimore, Maryland, August 1, 2017.
177. “Bayesian Design of Non-Inferiority Clinical Trials via the Bayes Factor”, Invited Lecture, CDRH, U.S. Food and Drug Administration, Silver Spring, Maryland, August 3, 2017.
178. “Bayesian Design of Non-Inferiority Clinical Trials via the Bayes Factor”, Invited talk in an invited Session I05/TCS036 on “Innovative Trial Designs in Pharmaceutical Development”, CEN-ISBS Vienna 2017, Vienna, Austria, August 28 - September 1, 2017.
179. “Recent Innovation and Development in Joint Models for Longitudinal and Time-to-Event Data: An Overview”, Invited talk in an invited Session 3b on “Mechanistic joint models for longitudinal and time-to-event data: recent advances and specific applications in oncology drug development”, ACoP8, Marriott Resort: Harbor Beach Hotel, Fort Lauderdale, Florida, October 15-18, 2017.
180. “Bayesian Item Response Theory Models with Flexible Generalized Logit Links”, Invited Lecture at School of Mathematics and Statistics, Northeast Normal University, Changchun, China, December 25, 2017.
181. “A Bayesian Cure Rate Frailty Model for Survival Data in the Presence of Semi-Competing and Competing Risks”, Invited Lecture at School of Mathematical Sciences, Shanghai Jiao Tong University, Shanghai, China, December 28, 2017.
182. “Network Meta-Regression for Ordinal Outcomes: Applications in Comparing Crohn’s Disease Treatments”, Invited talk in an invited Session 18 on “Recent Innovation in Network Meta-Analysis”, ENAR 2018 Spring Meeting, Atlanta, GA, March 25-28, 2018.
183. “Recent Innovation and Development in Joint Models for Longitudinal and Survival Data”, Invited Talk at the Second Annual Boston Pharmaceutical Symposium, Boston Chapter of the American Statistical Association, Takeda Pharmaceuticals, Cambridge, MA, May 4, 2018.
184. “Statistical Methods for Stream Data”, Keynote Presentation at Big Data Methodology Workshop, The Great Plains IDEa-CTR, University of Nebraska Medical Center, Omaha, NE, May 18, 2018.
185. “Bayesian Network Meta-Analysis with Applications to Cholesterol-Lowering Drugs”, Invited talk in the Contributed Member Session entitled “Bayesian models and applications in East Asia”, 2018 ISBA World Meeting, Edinburgh, UK, June 24-29, 2018.
186. “Bayesian Network Meta-Regression Hierarchical Models Using Heavy-Tailed Multivariate Random Effects with Covariate-Dependent Variances”, Invited talk in an

- invited session entitled “Latest Bayesian applications in clinical trials”, The 3rd EAC-ISBA Meeting, Seoul National University, Seoul, Korea, July 12-13, 2018.
187. Short Course (5 full days) on “Applied Bayesian Statistics”, Co-Presented with Jing Wu at the 2018 Statistics Summer School, School of Mathematics and Statistics, Northeast Normal University, Changchun, China, July 16-July 20, 2018.
 188. “Bayesian Network Meta-Regression Models Using Heavy-Tailed Multivariate Random Effects with Covariate-Dependent Variances”, Invited talk in the Topic Contributed Paper Session #654 on “Recent Innovation in Generalized Evidence Synthesis”, 2018 JSM in Vancouver, British Columbia, August 2, 2018.
 189. “Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome”, Invited Seminar Talk, Biometrics Department, Vertex Pharmaceuticals, Inc., Boston, MA, November 1, 2018.
 190. Short Course (1 full day) on “Survival Analysis”. Part III: “Joint Modeling of Longitudinal and Survival Data”, Presented at Pratt & Whitney, East Hartford, CT. November 2, 2018. This short course was sponsored by New England Statistical Society. Part I (Introduction to Survival Analysis: Basic Models and Model Assessment) and Part II (Models and Methods for Recurrent Event Data) were presented by Gregory Vaughan and Jun Yan, respectively.
 191. “Statistical Methods for Stream Data”, Taft Lecture, Taft Research Center, in conjunction with the College of Arts & Sciences & Department of Mathematical Sciences, University of Cincinnati, November 8, 2018.
 192. “Recent Innovation and Development in Joint Models for Longitudinal and Survival Data”, Invited Lecture, Department of Mathematical Sciences, University of Cincinnati, November 9, 2018.
 193. “A New Bayesian Model for Longitudinal Count Data with Many Zeros, Intermittent Missingness, and Dropout with Applications to HIV Prevention Trials”, Invited Lecture, Biostatistics Epidemiology & Research Design Seminar Series, Center for Clinical & Translational Science & Training, Cincinnati Children’s Hospital Medical Center, University of Cincinnati, November 9, 2018.
 194. “Partition Weighted Approach for Estimating Marginal Posterior Density with Applications”, Invited Lecture at Department of Statistics, Purdue University, November 30, 2018.
 195. “Recent Development on Bayesian Clinical Trial Designs Using Historical Data”, 3-hour Tutorial lecture, Presented at The 74th Annual Deming Conference on Applied Statistics, Atlantic City, NJ, December 3, 2018.
 196. Short Course (1 full day) on “Bayesian Inference and Clinical Trial Designs Using Historical Data”, Co-Presented with Fang Chen (SAS Institute) at ENAR 2019 Spring Meeting, Philadelphia, PA, March 24, 2019.
 197. “Bayesian Inconsistency Detection for Network Meta-Analysis”, Invited talk in

- Invited Session 62 on “Recent Advances in Bayesian Network Meta-Analysis”, ENAR 2019 Spring Meeting, Philadelphia, PA, March 25, 2019.
198. A Half-Day Short Course on “Power Prior: Incorporating Historical Data for Bayesian Inference and Designs of Clinical Trial”, presented at ICSA 2019 Applied Statistics Symposium, June 9-12, 2019, Raleigh Convention Center, NC.
 199. “A Comparison of Monte Carlo Methods for Computing Marginal Likelihoods of Item Response Theory Models”, Invited talk in Invited Session 3c on “Marginal Likelihoods: Theory, Computation, and Applications”, The 4th Eastern Asia Meeting on Bayesian Statistics EAC-ISBA, July 13-14, 2019, Kobe, Japan.
 200. Short Course (4 full days) on “Bayesian Statistics”, Co-Presented with Jing Wu in the 2019 Statistics Summer School, School of Mathematics and Statistics, Yunnan University July 16-July 19, 2019, Kunming, China.
 201. “Bayesian Meta-Regression Model Using Heavy-Tailed Random-effects with Missing Sample Sizes for Self-thinning Meta-data”, presented in Invited Session 542 on “New Research Synthesis Methods in Data Science”, 2019 JSM in Denver, Colorado, July 31, 2019.
 202. “Leveraging Historical Information: Methods and Applications”, Invited talk at the 2019 New England Rare Disease Statistics (NERDS) Workshop, Seaport Hotel in Boston, Massachusetts, October 11, 2019.
 203. “New Bayesian Measures for Information and Data Compatibility”, Invited colloquium talk, Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland, Maryland, November 21, 2019.
 204. “Bayesian Flexible Hierarchical Skew Heavy-Tailed Multivariate Meta Regression Models for Individual Patient Data with Applications”, Invited Talk in an Invited Session on “Recent Advance in Bayesian Data Science” at The 11th ICSA International Conference, Hangzhou Dragon Hotel, Hangzhou, China, December 20-22, 2019.
 205. “Assessing Importance of Biomarkers: a Bayesian Joint Modeling Approach of Longitudinal and Survival Data with Semicompeting Risks”, Invited talk in Invited Session 72 on “Recent Advances in Joint Modeling of Longitudinal and Survival Data”, ENAR 2020 Spring Meeting (Virtual), March 22-25, 2020.
 206. “Leveraging Historical Information: Methods and Applications”, Invited talk in Invited Session PS3a: Historical Data Borrowing in Clinical Trials at the 2020 ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop (Virtual), September 22-25, 2020.
 207. “Recent Development on Bayesian Clinical Trial Designs Using Historical Data”, Invited Speaker, the 2020 Cytel Virtual Bayesian Webinar Series, December 10, 2020 (over 200+ attended).
 208. “A New Bayesian Joint Model for Longitudinal Count Data with Many Zeros, Intermittent Missingness, and Dropout with Applications to HIV Prevention Trials”, Invited Talk in Invited Session 42: “Recent advances in statistical methods

for missing data, measurement error and biased sampling” at 2020 ICOSA Applied Statistics Symposium (Virtual), Houston, Texas, December 13-16, 2020.

209. “Assessment of Homogeneity and Consistency for Network Meta-Analysis”, Invited talk in Invited Session 62 on “Recent Advances in Bayesian Network Meta-Analysis”, ENAR 2021 Spring Meeting (Virtual), March 14-17, 2021.

10. Consulting

- Serving as a statistical consultant with Joseph G. Ibrahim (PI) in the field of joint modeling of longitudinal and survival data for Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN, August 1, 2011– July 31, 2014.
- Serving as a statistical consultant (PI) in the field of trial design/data analysis using Bayesian Approach related to drug-eluting stents for Boston Scientific Corporation, Marlborough, MA, August 1, 2006-August 1, 2012, and August 18, 2014-August 18, 2016.
- Serving as a statistical consultant for Aventis Pharmaceuticals, Inc., New Jersey, on Several Projects, January, 2003–2005.
- Serving as a statistical consultant for Global Research & Development, Pfizer Inc, on Several Projects, June, 2003–July 2004.
- Serving as a statistical consultant for Dr. Peng Huang, Department of Biometry and Epidemiology, Medical University of South Carolina, on her NIH grant “Global Statistical Tests in Parkinson’s Disease Studies”, March 1, 2003–February 28, 2004.
- Serving as a consultant for Cytel Software Corporation, Cambridge, MA, on the development of the XMISS software (Missing Values), 2001–2011.
- Served as a statistical consultant for the National Academy of Sciences on the project “the risk assessment for arsenic in drinking water”, May 2001–July 2001.

11. Grants and Contracts

- **REGENXBIO (RGX)**: (PI) “Bayesian Clinical Trial Design and Simulation Studies”, Total Award Amount: \$50,000, 03/01/2020-03/01/2021.
- **State of Florida Dept of Citrus, OJ Project RFP# 17-01**: (Co-PI, (PI: Ock K. Chun)), “Longitudinal Study Assessing Impact of 100% Orange Juice Intake on Anthropometric and Cardiometabolic Indicators and Health-Related Behaviors in U.S. Children”. Total Award Amount: \$309,356, 4/1/2018-6/30/2020.
- **Biogen**: (PI) “Consulting Services to Biogen”, Cumulative Total Award Amount: \$58,000, 1/1/2019-12/31/2021.
- **Pratt & Whitney Task 156 Project**: (PI) “Engine Combustor Life Modeling”. Total Award Amount: \$125,000, 1/1/2019-12/31/2019.

- **NIH Grant R01NR016928:** (Co-PI, (PI: Xiaomei Cong)), “Multi-Omics Analysis of Pain/Stress Impact on Neurodevelopment in Preterm Infants”. Total Award Amount: \$2,457,885, 09/14/2017-07/31/2021.
- **Subcontract from UNC of Amgen Grant:** (PI), “Statistical Methods for Meta-Analysis”. Total Award Amount: \$49,000, 01/01/2021-12/31/2021 (The cumulative total award amount: \$407,148 for 1/1/14-12/31/21).
- **Mott Corporation (AG171207):** (PI), “Service Agreement with Mott Corporation”. Total Award Amount: \$13,265, 01/06/17 - 07/22/17.
- **NIH Grant 2R01GM070335-17:** (Co-PI, (PI: Joseph G. Ibrahim)), “Bayesian Approaches to Model Selection for Survival Data”. Total Award Amount to UConn: \$323,440, 07/1/2016-06/30/2021 (Total award amount for 2R01GM070335: \$1,575,265).
- **UConn Provost Academic Plan Grant:** (Co-PI, PI: George Bollas), “Bayesian Design of Tests for Fault Detection and Isolation in Complex Systems”. Total Award Amount: \$200,000, 07/1/2016-06/30/2019.
- **NIH Grant 2R01GM087714-05A1:** (Co-PI, (PI: David F. Grant)), “Metabolomics Tools for Biomedicine”. Total Award Amount: \$1,029,396, 08/01/2015-04/30/2019.
- **NIH Grant 2P01CA142538-06:** (Co-PI, (PI: Michael Kosorok)), “Statistical Methods for Cancer Clinical Trials”. Total Subaward Amount: \$465,000, 05/15/2015-03/31/2021. (Total Award Amount for 2P01CA142538: \$10,328,845.)
- **American Cancer Society Grant RSG-15-011-01 - CDD:** (Collaborator, PI: Xiuling Lu), “Activatable Nanoparticles for Radiotherapy of Metastatic Ovarian Cancer”. Total Award Amount: \$792,000, 07/1/2015-06/30/2020.
- **UConn Provost Academic Plan Grant:** (Co-PI, PI: Xiuling Lu), “Polymer-Based Nanocarrier Platform for Improving Efficacy and Safety of Potent Chemotherapeutic Agents”. Total Award Amount: \$240,000, 07/1/2015-06/30/2018.
- **Sanofi US Services Inc.** (Co-PI, PI: Xiaojing Wang), “Development of Statistical Methodology for Identifying Respondent Subgroups Using Biomarker Signature”, Award Amount: \$64,683, 05/23/2016-08/31/2018.
- **Subcontract from UNC of Merck & Co Grant:** (PI), “Statistical Analysis of Clinical Data”. Total Award Amount: \$47,534, 04/01/2020-12/31/2020.
- **Subcontract from UNC of Merck & Co Grant:** (PI), “Methods for Interim Analysis with Incomplete Adjudication of Events”. Total Award Amount: \$60,738, 05/16/2018-03/31/2019.
- **Subcontract from UNC of Merck & Co Grant:** (PI), “Bayesian Methods for Design and Analysis of Clinical Trials”. Total Award Amount: \$80,000, 05/16/2015-08/15/2018.
- **Subcontract from UNC of Merck & Co Grant:** (PI), “Methods for Interim Analysis with Incomplete Adjudication of Events”. Total Award Amount: \$24,962, 08/01/2015-02/28/2016.

- **Subcontract from UNC of Amgen Grant:** (PI), “Statistical Methods for Meta-Analysis”. Total Award Amount: \$42,295, 04/01/2015-12/31/2015.
- **Boehringer Ingelheim Pharmaceuticals, Inc.** (PI), “Service Agreement with Boehringer Ingelheim Pharmaceuticals”, Award Amount: \$53,000, 9/12/2014-12/31/2015.
- **NSF Grant DEB-1354146** (Co-PI, PI: Paul Lewis), (NSF/BIO/Directorate for Biological Sciences, University of Connecticut), “Estimating the Bayesian Phylogenetic Information Content of Systematic Data”. Total Award Amount: \$600,000, 09/01/2014-8/31/2020.
- **Boston Scientific Corporation:** (PI), “Bayesian Design under Conditional Borrowing Power Priors as well as Conditional Borrowing Hierarchical Priors”. Total Award Amount: \$11,625, 5/1/2014-9/30/2014.
- **CHIP Seed Grant for Obesity Research** (Co-PI, (PI: Linda Pescatello)), “A Firefighter Physical Test & Training Program for Cardiovascular Health”, Award Amount: \$15,000, 4/1/2014-6/30/2016.
- **Subcontract from UNC of Amgen Grant:** (PI), “Bayesian Methods for Meta-analysis”. Total Award Amount: \$37,000, 01/01/2014-12/31/2014.
- **Subcontract from UNC of Merck & Co Grant:** (PI), “Bayesian Methods for Clinical Trials”. Total Award Amount: \$70,000, 01/01/2013-06/30/2014.
- **Brigham and Women’s Hospital:** (P.I.) “Statistical Research for Prostate Cancer Study”, Award Amount: \$30,000, 1/1/2013-12/31/2013.
- **NIH Grant 2R01GM070335-13A1:** (Co-PI, (PI: Joseph G. Ibrahim)), “Bayesian Approaches to Model Selection for Survival Data”. Total Award Amount: \$1,154,158, 09/1/2011-08/31/2015.
- **NIH Grant 1R01GM087714-01-04:** (Co-PI, (PI: David F. Grant)), “Metabolomics Tools for Biomedicine”. Total Award Amount: \$1,207,947, 06/01/2010-05/31/2014.
- **NIH Grant 1R03CA159421-01A1:** (Biostatistician, (PI: Ock Chun)), “Does Dietary Antioxidant Predict Aggressiveness of Prostate Cancer?”, Award Amount: \$160,313, 03/14/2012-02/28/2014.
- **UConn Diet and Health Initiative (DHI) Grant** (Co-PI, (PI: Xiuling Lu)), “Quercetin nanoemulsions for enhancing its oral bioavailability and chemoprotective effects”, Award Amount: \$50,000, 3/1/2012-2/28/2014.
- **UConn Seed Grant Development Opportunities for CHIP Principal Investigators** (Co-PI, (PI: Linda Pescatello)), “Modality and the Long Lasting Antihypertensive Effects of Exercise”, Award Amount: \$14,942, 8/20/2012-5/17/2013.
- **NIH Grant R01:** (subcontract, P.I.) “Inference in Regression Models with Missing Covariates”, (continuation of the earlier NIH R01 Grant), Award Amount: \$99,777, 07/17/2009 - 06/30/2011.

- **NSF Grant DMS-0723557:** (Co-P.I.), “Scientific Computing Research Environments for the Mathematical Sciences (SCREMS)”, Award Amount: \$64,098 (UCONN Matched Amount \$64,000); 8/15/2007-7/31/2009. (PI: Z. Chi).
- **UConn Faculty Large Research Grant:** (P.I.), “Bayesian Structural Equations Modeling with Applications to VHA Survey Data”, Award Amount: \$15,000; 1/1/2007-12/31/2007.
- **NIH Grant R01:** (subcontract, P.I.) “Bayesian Approaches to Model Selection for Survival Data”, Award Amount: \$208,712, 7/1/2006-6/30/2010.
- **NIH Grant R01:** (subcontract, P.I.) “Inference in Regression Models with Missing Covariates”, (continuation of the earlier NIH R01 Grant), Award Amount: \$158,747, 8/1/2005 - 7/31/2009.
- **NIH Grant R01:** (subcontract, P.I.) “Bayesian Approaches to Model Selection for Survival Data”, (continuation of the earlier NIH R01 Grant), Award Amount: \$150,000, 6/1/2003-5/31/2006.
- **Brigham and Women’s Hospital:** (P.I.) “Statistical Research for Prostate Cancer Study”, Award Amount: \$19,986, 7/1/2003-10/15/2007.
- **NIH Grant R01:** (subcontract, P.I.), “Inference in Regression Models with Missing Covariates”, (continuation of the earlier NIH R01 Grant), Award Amount: \$125,013, 7/1/2002-3/31/2005 (a three-year NIH grant).
- **NIH Grant R01:** (subcontract, P.I.) “Semiparametric Bayesian Survival Analysis”, Award Amount: \$92,242; 9/30/2002-8/31/2005. Co-P.I.: D.K. Dey.
- **NSF Grant:** (P.I.), “Scientific Computing Research Environments for the Mathematical Sciences (SCREMS)”, Award Amount: \$40,000 (UCONN Matched Amount \$40,000); 10/01/2002-9/30/2004.
- **UConn Faculty Small Research Grant:** (P.I.), “Bayesian Model Assessment for Categorical Response Data”, Award Amount: \$1,000; 6/1/2002-12/31/2002.
- **NIH Grant R01:** (subcontract, P.I.) “Bayesian Approaches to Model Selection for Survival Data”, Award Amount: \$99,913.5; 4/01/99-3/31/2002.
- **NSF Grant:** (sole P.I.), “Bayesian Analysis of Correlated Categorical Data Models Using Scale Mixtures of Multivariate Normal Link Functions”, Award Amount: \$70,773; 7/15/1997-6/30/2000.
- **NIH Grant R01:** (subcontract, P.I.), “Inference in Regression Models with Missing Covariates”, Award Amount: \$111,015; 9/1/1997-8/31/2000.
- **NSF, MRI Grant:** (Co-P.I.) “Acquisition of High-Performance Computer for Mathematical Sciences Applications”, Award Amount: \$145,051, September 1, 1998-August 30, 2001. PI: Homer Walker.
- **NSF Grant:** (Co-P.I.) “A Computer Classroom for Introductory Statistics”, Award Amount: \$53,348, 6/1/94-12/31/96, P.I.: J.D. Petrucci.

- **NSF Grant:** Received one month summer salary from NSF teaching grant “A Modular Laboratory and Project-Based Statistics Curriculum”, Award Amount: \$165,000, P.I.: J.D. Petrucci.
- **Industrial Grant:** (P.I.) “Statistical Modeling, Analysis and Simulation Study” (Supporting two graduate students), Award Amount: \$40,230, Aventis Pharmaceuticals, Bridgewater, New Jersey, 03/1/2003 - 01/27/2004.
- **Industrial Grant:** (P.I.) “Fuel Usage Prediction,” Award Amount: \$7,500, Funded by Veeder-Root, Simsbury, Connecticut, 9/99-8/00, Co-P.I. J.D. Petrucci.
- **Industrial Grant:** (P.I.) “Leak Detection Field Verification Study,” Award Amount: \$3,500, Funded by Veeder-Root, Simsbury, Connecticut, 1/01-5/01, Co-P.I. J.D. Petrucci.
- **Industrial Grant:** (P.I.) “Robust Statistical Sampling”, Award Amount: \$5,500, Funded by Tambrands, Massachusetts, 4/96-5/97.
- **Travel Grants:**
 - Partly supported by NSF, a total of US\$700, to attend the Fifth International Meeting on Bayesian Statistics, June 5-9, 1994, Alicante, Spain.
 - Fully supported by AMS-IMS-SIAM, a total of US\$280, to attend the conference on the “Markov Chain Monte Carlo Methods”, June 26 - June 30, 1994, Mount Holyoke College, South Hadley, Massachusetts as an **invited participant**.
 - Partly supported by ISBA, a total of US\$150, to present “Importance Weighted Marginal Bayesian Posterior Density Estimation” in the first annual meeting of the International Society for Bayesian Analysis, San Francisco, California.
 - Partly supported by IMS, a total of US\$420, to present “Monte Carlo Markov Chain Sampling for Evaluating Multidimensional Integrals with Application to Bayesian Computation” in the First IMS North American New Researchers Meeting, August 4-7, 1993, University of California, Berkeley, San Francisco, California.
 - Supported by Purdue University, a total of US\$650, to travel back to Purdue University working on “Bayesian Analysis for Estimating Fuel Economy Potential 2-Tuples Models”, August 31 - September 5, 1993, West Lafayette, Indiana.

12. Student Advising and Supervision

♠ PH.D. STUDENT SUPERVISION

1. Lan Huang on “Bayesian Analysis of GLM with Missing Covariates”. Fall 2001—Fall 2004.
2. Sonali Das on “Essays on Bayesian Structural Equations Modeling”. Fall 2002—Fall, 2006.

3. Yingmei Xi on “New Development of Bayesian Mixture Models for Survival and Survey Data”. Fall 2003—January, 2008.
4. Wangang Xie on “Bayesian Phylogenetic Model Selection and Applications” (Co-advising with Lynn Kuo). Fall 2006—January, 2009,
5. Miaomiao Ge on “Bayesian Methodology for Survival Data with Completing Risks”. Fall 2007—August, 2011.
6. Arijit Sinha on “Bayesian Inference of Survival Data with Gamma Process Priors”. Fall 2008—August, 2011.
7. Hui Yao on “Maximum Likelihood and Bayesian Inference of Meta-Analysis Regression Models”. Spring 2009—August, 2012.
8. Yuanye Zhang on “Bayesian Methodology for Survival Data with Semi-competing Risks”. Spring 2009—August, 2012.
9. Wenqing Li on “Bayesian Design of Non-Inferiority Clinical Trials”. Fall 2009—September, 2012 (Co-advising with Dipak K. Dey).
10. Rui Wu on “Theory and Methods for Estimating Normalizing Constants and Posterior Marginal Densities Based on the Inflated Density Ratio with Applications”. Spring 2009—November, 2012 (Co-advising with Lynn Kuo).
11. Danjie Zhang on “Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”. Fall 2011—October, 2014.
12. Hee-Koung Joeng on “Theory and Methods for Modeling and Fitting Discrete Time Survival Data”. Fall 2011—September, 2015.
13. Yu-Bo Wang on “Adaptive Partition Weighted Monte Carlo Estimation”. Spring 2013—June, 2016 (co-advising with Lynn Kuo).
14. Jing Wu on “Bayesian Modeling and Inference for Nonignorably Missing Longitudinal Response Data”. Fall 2013—May 24, 2017 (co-advising with Elizabeth D. Schifano).
15. Daoyuan Shi on “Statistical Methods for Information Assessment and Data Compatibility with Applications”. Spring 2014— August 8, 2017 (co-advising with Lynn Kuo).
16. Hao Li on “Bayesian Network Meta-Analysis with Applications to Cholesterol Lowering Drugs”. Fall 2014—June 21, 2018.
17. Fan Zhang on “Statistical Models and Methods for Longitudinal and Survival Data with Treatment Switches”. Fall 2014—June 21, 2018.
18. Yeongjin Gwon on “New Methods and Innovations in Network Meta Regression for Ordinal Response Outcomes with Applications”. Spring 2014 — August 9, 2018.
19. Yang Liu on “Bayesian Item Response Theory: Methods and Applications”. Fall 2015— August 2, 2019 (co-advising with Xiaojing Wang).

20. Cheng Zhang on “Heterogeneity and Inconsistency Detection in Network Meta-Analysis with Applications to Cholesterol-Lowering Drugs”. Fall 2017 — August 7, 2020.
21. Lijiang Geng on “Statistical Methods for Incomplete Data in Clinical Studies”. Fall 2017 — August 7, 2020.
22. Wei Shi. Fall 2016 — present (co-advising with Lynn Kuo).
23. Yiming Zhang. Spring 2018 — present.
24. Hongfei Li. Fall 2018 — present.
25. Md. Tuhin Sheikh. Spring 2019 — present.
26. Cheng Huang. Spring 2019 — present.
27. Peiran Liu. Fall 2019 — present.
28. Haiwei Zhou. Fall 2019 — present.
29. Austin Menger. Spring 2020 — present.
30. Xiaolin Chang. Spring 2020 — present.
31. Wenlin Yuan. Spring 2020 — present.
32. Simiao Gao. Spring 2020 — present.
33. Daeyoung Lim. Fall 2020 — present.
34. Eric Baron. Spring 2021 — present.
35. Meiruo Xiang. Spring 2021 — present.
36. Jiarui Liu. Spring 2021 — present.
37. Aolan Li. Spring 2021 — present.

♠ VISITING SCHOLAR SUPERVISION

1. Fang Liu, Northeast Normal University, Changchun, China, April 1, 2019 – April 1, 2021.
2. Lei Cao, Changchun University of Technology, September 15, 2018 — September 14, 2019.
3. Yuxuan Liu, University of Science and Technology of China, July 3 — September 20, 2018.
4. Yongqi Liu, University of Science and Technology of China, June 29 — September 14, 2018.
5. Zhihua Ma, Jinan University, Guangzhou, China, January 1, 2018 — December 31, 2018.
6. Ruiyin Liu, Shengyang Normal University, Shengyang, China, December 28, 2016 – June 25, 2018.

7. Ying-Ying Zhang, Chongqing University, Chongqing, China, September 1, 2016 – August 31, 2017.
8. Lihui Li, Southwest University, Chongqing, China, February 27, 2016 – February 26, 2017.
9. YunFei Ye, Shanghai Jiao Tong University, Shanghai, China, March 1, 2016 – February 28, 2017.
10. Jiwei Zhang, Northeast Normal University, Changchun, China, September 1, 2015 – August 31, 2017.
11. Larissa Avila Matos, Campinas State University, Campinas, São Paulo, Brazil, July 15, 2015 — January 14, 2016.
12. Gaofeng Lu, Shanghai Jiao Tong University, Shanghai, China, August 30, 2014 – August 29, 2015.
13. Fatemeh Sadat Hosseini Baharanchi, Tarbiat Modares University, Tehran, Iran, November 2014 – June 2015.

♠ POSTDOCTOR SUPERVISION

- Guanyu Hu, December 2017– August 2020.
- Mario de Castro, University of Sao Paulo, on Bayesian methods, 2011-2012.
- Sungduk Kim, on Bayesian methodology, supported by NIH Grants and UConn Faculty Large Research Grant, 2005-2007.
- Daisy G. Tu, on Bayesian Analysis of Errors-In-Variable Models, sponsored by Brazilian government fellowship, Spring 2001–Spring 2002.

♠ PH.D. STUDENT COMMITTEE MEMBER

- Appointed to serve as a Ph.D. committee member for Yanchuan Huang, Ph.D. student, Department of Statistics, SUNY at Buffalo in Spring 2000 – Spring 2004.

♠ MASTER THESES COMPLETED

- (1) Advisor on Tatiana Doytchinova’s MS thesis entitled “Statistical Analysis of Prostate Cancer Data with Missing Covariates”, Fall 2000 and Spring 2001.
- (2) Advisor on Lan Huang’s MS Thesis entitled “Statistical Methods for Fuel Dispensing Prediction”, August, 2000. (Joseph D. Petrucci is the co-advisor.)
- (3) Advisor on Yuehui Wu’s MS Thesis entitled “Comprehensive Study on Importance of Links In Binomial Regression”, Spring 1999 – May 2000.
- (4) Advisor on Fang Zhang’s MS Thesis entitled “Neural Network, C-Index and Bootstrapping Methods for Prostate Cancer Data”, Summer 1998 – August 1999.

- (5) Advisor on Julie Fondurulia's MS Thesis entitled "Assessing Importance of Pathological and Clinical Predictors In Prostate Cancer Studies", Spring, 1998 – Spring, 1999.
(Won Sigma Xi 1998-99 MS Research Award.)
- (6) Advisor on Shuhua Qi's MS Thesis entitled "Statistical Inference on Psychosocial Interaction and Ambulatory Blood", June, 1997 — May, 1998.
- (7) Advisor on Christopher D. Lowe's MS Thesis entitled "A Comprehensive Study of Statistical Sampling at Tambrands, Inc.", Spring 1996 – May 1997.
(Won Sigma Xi 1996-97 MS Research Award.)
- (8) Advisor on April M. Desjardin's MS Thesis entitled "Statistical Inference on Studies of Adenocarcinoma of the Prostate", Fall 1996 – May 1997.
- (9) Advisor on Cynthia M. Sullivan's MS Thesis entitled "Statistical Analysis of International TSS Study", Spring 1996 – May 1997.
- (10) Advisor on Amy S. Remillard's MS Thesis entitled "Ridge Regression for the Cross-Sectional NSFH Data", Fall 1994 – May 1995.
- (11) Advisor on Michael Jiroutek's MS Thesis entitled "A Transformed Random Effects Model For Sex Hormones of Post-Menopausal Women", Fall 1994 – May 1995.
- (12) Co-Advisor on Mark Carey's MS Thesis entitled "A Bayesian Error-Components Regression Model: An Application to the Thin Film Heads Industry", Fall 1993 – May 1994. (Advisor: Balgobin Nandram.)

♠ UNDERGRADUATE PROJECTS ADVISED AND CO-ADVISED

- B95, C96, D96, advising IQP on "Time Commitments for a Typical WPI Student" (students: Lisa Bartee, Tara Halwes, and Keith Pray).
- B96, C97, D97, advising IQP on "Time Commitments of Undergraduate Students" (students: Corbin Godek and Penelope Taska).
- C98, D98, advising IQP on "A Comprehensive Study of Distribution Business" (students: Lijun Leo Liu, Jianren Tai, and Xiaolong Ron Yu).
- E98-D99, advising IQP on "The Relationship Between Teaching Evaluation and Learning Style Study" (students: Hieu Van Nguyen and Hung Tan Nguyen).
- A99, B99, C00, and E00, advising IQP on "Distribution In The Plastics Industry" (Student: Michael A. Mahan).
- Co-advising MQP on "Analysis of the Master of Mathematics Program at Worcester Polytechnic Institute" by Kathleen P. Paulauskas (Advisor: Susan L. Ganter) (1994-1995).
- Co-Advisor on Bethany Joy Gilbert' MQP, entitled "Survival Analysis of Women's Athletics at WPI", Term B, 2000 – Terms C and D, 2001. (Mijung Kim is the advisor.)

13. Services at UCONN

- Served on the *University Senate*, University of Connecticut. July 1, 2018 – June 30, 2021.
- Served on *the Research Advisory Council*, University of Connecticut. 2013-2016.
- Served as Chair of *the Committee to Review the Graduate Level Courses* of the Department of Statistics at UCONN. Fall 2015-Spring 2016.
- Served on *the 2014-15 CLAS Research Award Selection Committee*, University of Connecticut. 2015.
- Served as Chair of *the R. Makuch Distinguished Lecture Committee* of the Department of Statistics at UCONN. Spring 2005-Spring 2006.
- Served as Chair of the Planning Committee of *the 29th New England Statistical Symposium*. 2014-2015.
- Served on *Professional Master Program in Biostatistics* of the Department of Statistics at UCONN. Spring 2014.
- Served as Chair of the Planning Committee of *the 27th New England Statistical Symposium*. 2012-2013.
- Served as Chair of *Genomics Search Committee* of the Department of Statistics at UCONN. 2013-2014.
- Served on *Department's 50th Year Celebraton* of the Department of Statistics at UCONN. Spring 2012.
- Served on *Public Relations* of the Department of Statistics at UCONN. 2012-2015, Spring 2016.
- Served as Chair of *Department Distinguished Alumnus Award* of the Department of Statistics at UCONN. Spring and Fall 2012.
- Served as Chair of *Biostatistics Search Committee* of the Department of Statistics at UCONN. 2011-2012.
- Served as Chair of the Planning Committee of *the 25th New England Statistical Symposium*. 2010-2011.
- Served as Chair of *Environmental / Spatial Statistics Faculty Search Committee* of the Department of Statistics at UCONN, 2009-2010.
- Served as Chair of *Faculty Search Committee* of the Department of Statistics at UCONN. 2008-2010.
- Served on *PTR Committee* of the Department of Statistics at UCONN, 2005-present.
- Served on *Computer Committee* of the Department of Statistics at UCONN. 2009-present (Chair, Fall 2013.)
- Served on *Biostat Program Development Committee* of the Department of Statistics at UCONN. 2009-2013 (Chair, Spring 2011).

- Served as Chair of the Planning Committee of *the 23rd New England Statistical Symposium*. 2008-2009.
- Served as the Director of *Statistical Consulting Services*, Department of Statistics at UCONN, 2008-present.
- Served as Chair of *CAS/Consulting Committee* of the Department of Statistics at UCONN, 2004-2008.
- Served on *Biostatistics Center Committee* of the Department of Statistics at UCONN, 2004-2005.
- Served on *Technical Committee for the Crack Treatment Project*, 2004-2005.
- Served as Chair of *Biostatistics Faculty Search Committee* of the Department of Statistics at UCONN, 2004-2005.
- Served on the Organizing Committee of *the Nineteenth New England Statistical Symposium*. 2004-2005, 2006-2007.
- Served on the College of Liberal Arts & Sciences (CLAS) *Dean's IT Advisory Committee*. Spring 2004-Spring 2008.
- Served as Chair of *Faculty Search Committee* of the Department of Statistics at UCONN. 2003-2004.
- Served on *CAS/Consulting Committee* of the Department of Statistics at UCONN. 2003-2005.
- Served as Chair of *Computer Committee* of the Department of Statistics at UCONN. 2002-2008.
- Served as Chair of *Biostatistics Committee* of the Department of Statistics at UCONN. 2002-2004.
- Served on the Organizing Committee of *the Seventeenth New England Statistical Symposium*. 2002-2003.
- Member of the Organizing Committee for IMS Mini-Conference on Statistics for Mathematical and Computational Finance, May 3, 2003
- Served as Chair of *Computer Committee* of the Department of Statistics at UCONN. 2001-2002.
- Served as Chair of *Biostatistics Committee* of the Department of Statistics at UCONN. 2001-2002.

14. Services at WPI

- Served on *Graduate Committee* and *Library Committee* (chair) of the Department of Mathematical Sciences, WPI, 1998-2001.
- Served on *Statistics Search Committee*, Department of Mathematical Sciences, WPI, Spring 1998.

- During summer of 1995, together with Joseph Fehribach, I reviewed all the Major Qualifying Projects in the Department of Mathematical Sciences completed during the 1993-1995 academic years at WPI.
- Organized “*The 25th and 27th Anniversary MQP Competitions*” for the Department of Mathematical Sciences, WPI, April 18, 1996 and April 16, 1998.
- Served on *Colloquium Committee* and *Computer Committee* of the Department of Mathematical Sciences, WPI, 1993-1994,
- Served on *Colloquium Committee* and *Interdisciplinary Committee* of the Department of Mathematical Sciences, WPI, 1994-1995,
- Served on *Undergraduate Committee* and *Textbook Selection Committees for MA 2611 and MA 3613* of the Department of Mathematical Sciences, WPI, 1995-1996.
- Served on *Computer Committee* of the Department of Mathematical Sciences, WPI, 1994-1998.