

PUBLICATIONS

1. "A Reexamination of the Subcarrier Demodulator Assembly Data Limiter Suppression Factor" (with L. Webster), *Deep Space Network Progress Report*, 42-28: Jet Propulsion Laboratory, May and June, 1975, 109-121.
2. "Bayesian Bioassay Design", *Annals of Statistics*, V. 11, 1983, 886-895.
3. "The Admissibility of the Empirical Distribution Function" (with M.P. Cohen), *Annals of Statistics*, V. 13, 1985, 262-271.
4. "Minimax Sampling Strategies for Estimating a Finite Population Distribution Function" (with M.P. Cohen), *Statistics and Decisions*, V. 3, 1985, 205-224.
5. "Computations of Mixtures of Dirichlet Processes", *SIAM Journal on Scientific and Statistical Computing*, V. 7, 1986, 60-71.
6. "A Note on Bayes Empirical Bayes Estimation by Means of Dirichlet Processes", *Statistics and Probability Letters*, V. 4, 1986, 145-150.
7. "Combining Preliminary Estimators of Totals for Livestock Surveys by Convex Programming", *Proceedings, Section on Survey Research Methods, 1986, American Statistical Association*, 460-465.
8. "Linear Bayes Estimators of the Potency Curve in Bioassay", *Biometrika*, V. 75, 1988, 91-96.
9. "Fixed-Width Interval Estimation of the Largest Location of k Negative Exponential Populations" (with N. Mukhopadhyay), *Sequential Analysis*, V. 7, 1988, 321-332.
10. "Classical and Prediction Approaches to Estimating Distribution Functions from Survey Data", *Proceedings, Section on Survey Research Methods, 1988, American Statistical Association*, 280-285.
11. "Composite Estimation of Totals for Livestock Surveys", *Journal of American Statistical Association*, V. 84, 1989, 421-429.
12. "A Class of Minimax Estimators of the Scale Parameter of the Uniform Distribution" (with A. Rukhin and D.K. Dey), *Statistics and Probability Letters*, V. 9, 1990, 317-321.
13. "On the Admissibility of the Linear Estimators of the Poisson Mean Using Linex Loss Functions" (with D.K. Dey), *Statistics and Decisions*, V. 8, 1990, 201-210.
14. "Multi-stage Point and Interval Estimation of the Largest Mean of K Normal Populations and the Associated Second Order Properties" (with N. Mukhopadhyay), *Metrika*, V. 37, 1990, 291-300.
15. "Point Estimation of the Largest Location of k Negative Exponential Populations" (with N. Mukhopadhyay), *Sequential Analysis*, V. 9, 1990, 297-304.
16. "Empirical Bayes Estimation for the Quarterly Hog Series" (with P.W. Cook), in *Proceedings, Section on Survey Research Methods, 1990, American Statistical Association*, 314-319.
17. "A New Empirical Bayes Estimator with Type II Censored Data" (with D.K. Dey), *Computational Statistics & Data Analysis*, 1991, V. 12, 271-279.
18. "Nonparametric Bayesian Bioassay Including Ordered Polytomous Response" (with A. E. Gelfand), *Biometrika*, 1991, V. 78, 657-666.
19. "Sampling Based Approach to Computing Nonparametric Bayesian Estimators With Doubly Censored Data", *Proceedings 23rd Symposium on the Interface between Computer Science and Statistics*, 1991, 612-615.

20. "Improved Sequential and Accelerated Sequential Procedures for Estimating the Scale Parameter in a Uniform Distribution" (with N. Mukhopadhyay and T.K.S. Solanky), *Sequential Analysis*, 1991, 235-246.
21. "Inference for the Maximum Cell Probability Under Multinomial Sampling" (with A.E. Gelfand, J. Glaz, and T.M. Lee), *Naval Research Logistics*, 1992, V. 39, 97-114.
22. "Bayes Computations in Survival Models via the Gibbs Samplers" (with A.F.M. Smith), (1992), in *Survival Analysis: State of the Art*, eds. J.P. Klein and P.K. Goel, Dordrecht: Kluwer Academic, 11-24 (with discussion).
23. "A Sampling Based Approach to Software Reliability" (with T. Yang), *1993 Proceedings of the Statistical Computing Section, American Statistical Association*, 165-170.
24. "Empirical Bayes Risk Evaluation with type II Censored Data" (with C. Yiannoutsos), *Journal of Statistical Computation and Simulation*, 1993, V. 48, 195-206.
25. "Minimax Estimation of a Variance" (with T.S. Ferguson), *Annals of the Institute of Statistical Mathematics*, 1994, V. 46, 295-308.
26. "A Unified Approach to the Nonhomogeneous Poisson Process in Reliability Modeling" (with T. Yang), *1994 Proceedings of the Physical & Engineering Sciences Section, American Statistical Association*, 169-174.
27. "Nonparametric Bayesian Inference for Accelerated Failure Time Model" (with B. Mallick), *1994 Proceedings of the Section on Bayesian Statistical Science, American Statistical Association*, 90-95.
28. "Bayesian Computation for Software Reliability" (with T. Yang), *Journal of Computational and Graphical Statistics*, 1995, V. 4, 65-82.
29. "An Analogy Between the Nonparametric Problems of Estimating a Distribution Function and the Parametric Problems" (with Q. Yu), *Sankhya, A.*, 1995, V. 57, 472-485.
30. "A Bayesian Predictive Approach to Determining the Number of Components in a Mixture Distribution" (with D. Dey and S. Sahu), *Statistics and Computing*, 1995, 297-305.
31. "Bayesian Inference for Superposition of Nonhomogeneous Poisson Processes" (with T. Yang), *1995 Proceedings of the 50th Session, The International Statistical Institute*, 647-648.
32. "An Interval Estimate for the Intraclass Correlation in Beta-Binomial Sampling" (with K. J. Lui and W.G. Cumberland), *Biometrics*, 1996, V. 52, 412-425.
33. "Confidence Limits for the Intraclass Correlation in Compound-Poisson Sampling" (with K.J. Lui), *Biometrical Journal*, 1996, V. 38, 231-239.
34. "Bayesian Computation for Nonhomogeneous Poisson Processes in Software Reliability" (with T. Yang), *Journal of the American Statistical Association*, 1996, V. 91, 763-773.
35. "Bayesian Variable Selection for Regression Models" (with B. Mallick), *1996 Proceedings of the Section on Bayesian Statistical Science, American Statistical Association*, 170-175.
36. "Bayesian Computation for NHPP-Gamma-K Software Reliability Growth Models" (with J. Lee, K. Choi, and T. Yang), *1996 Proceedings of the Section on Physical and Engineering Sciences, American Statistical Association*, 117-122.
37. "Bayes Inference for Technological Substitution Data with Data-Based Transformation" (with J. Lee, P. Chang and J. Pai), *Journal of Forecasting*, 1997, V. 16, 65-82.

38. "Bayesian Inference for S-shaped Software Reliability Growth Models" (with J. Lee, K. Choi and T. Yang), *IEEE Transactions on Reliability*, 1997, V. 46, 76-80.
39. "Bayesian Semiparametric Inference for the Accelerated Failure Time Model" (with B. Mallick), *Canadian Journal of Statistics*, 1997, V. 25, 457-472.
40. "Sampling Based Approach to One-Hit and Multi-Hit Models in Quantal Bioassay" (with H.M. Chu), *Statistics and Computing*, 1997, V. 7, 183-192.
41. "Variable Selection for Regression Models" (with B. Mallick), 1998, *Sankhya B*, V. 60, 65- 81.
42. "Bayesian Analysis for Multi-Stage Linearized Models in Quantal Bioassay" (with M.P. Cohen), 1999, *Biometrical Journal*, V. 41, 53-69.
43. "Software Reliability (Update)", in *Encyclopedia of Statistical Sciences*, Update, V. 3, 1999, editors: S. Kotz, C.B. Read, and D. Banks, 671-680.
44. "Optimal Design for Quantal Bioassay via Monte Carlo Methods" (with R. Soyer and F. Wang), 1999 in *Bayesian Statistics 6*, editors: J.M. Bernardo, J.O. Berger, A.P. Dawid, and A.F.M. Smith, 795-802.
45. "Bayesian Computation for the Superposition of Nonhomogeneous Poisson Processes" (with T. Yang), *Canadian Journal of Statistics*, 1999, V. 27, 547-556.
46. "A Mixture-Model Approach to the Analysis of Survival Data" (with F. Peng), 2000, in *Generalized Linear Models: A Bayesian Perspective*, editors: D.K. Dey, S.K. Ghosh, and B.K. Mallick, Marcel Dekker, 255-270.
47. "Bayesian Reliability Modeling for Masked System Lifetime Data" (with T. Yang), *Statistics and Probability Letters*, 2000, V. 47, 229-241.
48. "Book Review: Markov Chain Monte Carlo by Dani Gamerman ", *Technometrics*, 2000, V. 42, 216.
49. "Parametric Discrete Choice Models Based on Scale Mixtures of Multivariate Normal Distributions" (with Z. Chen), *Proceedings of the ASA section on Bayesian Statistical Science, 2000, American Statistical Association*, 50 - 55.
50. "A Note on the Estimation of the Multinomial Logit Model with Random Effects " (with Z. Chen), *The American Statistician*, 2001, V. 55, 89-95.
51. "Bayesian Binary Segmentation Procedure for a Poisson Process" (with T. Yang), *Journal of Computational and Graphical Statistics*, 2001, V. 10, 772-785.
52. "Estimation of Bivariate Measurements Having Different Change Points, with Application to Cognitive Ageing " (with C. Hall, J. Ying, M. Sliwinski, H. Buschke, M. Katz and R. B. Lipton), *Statistics in Medicine*, 2001, V. 20, 3695-3714.
53. "Discrete Choice Models Based on the Scale Mixtures of Multivariate Normal Distributions" (with Z. Chen), *Sankhya B*, 2002, V. 64, 192-213.
54. "Bayesian and Profile Likelihood Change Point Methods for Modeling Cognitive Function Over Time" (with C. Hall, J. Ying, and R. Lipton), *Computational Statistics and Data Analysis*, 2003, V. 42, 91-109.
55. "A Bayesian Portfolio Allocation Model on Asset Return" (with Jun Ying), *Proceedings of the ASA section on Bayesian Statistical Science, 2003, American Statistical Association*, 4664-4671.
56. "A State Duration Model for Brand Choice and Inter-purchase Time" (with Z. Chen), *Journal of Data Sciences*, 2004, V.2, 125-147.

57. "Managing Software Development Process" (with I.R. Chiang), 2004, in *Mathematical Reliability: an Expository Perspective*, eds: R. Soyer, T.A. Mazzuchi, and N. Singpurwalla, Kluwer, Boston, 233-248.
58. "Forecasting Stock Prices Using a Hierarchical Bayesian Approach" (with J. Ying, G. Seow), *Journal of Forecasting*, 2005, V. 24, 39-59.
59. "Expression Profile of Osteoblast Lineage at Defined Stages of Differentiation" (with I. Kalajzic, A. Staal, W-P Yang, Y. Wu, S. E. Johnson, J. H. M. Feyen, W. Krueger, P. Maye, F. Yu, Y. Zhao, R. Gupta, L.E.K. Achenie, H-W Wang, D-G. Shin, and D. W. Rowe), *Journal of Biological Chemistry*, 2005, July, V. 280, 24618-24626.
60. "Software Reliability", 2005, in *Bayesian Thinking: Modeling and Computation, Handbook of Statistics Vol. 25*, eds: D.K. Dey and C. R. Rao, Elsevier, Amsterdam, Chapter 33, 929-963.
61. "Calibration Methods for Selecting Differentially Expressed Genes" (with F. Yu and M. H. Chen) *Proceedings of the ASA section on Bayesian Statistical Science, 2005, American Statistical Association.*
62. "A New Time Varying Frailty Model for Recurrent Events" (with C. Song). *Proceedings of the ASA section on Bayesian Statistical Science, 2005, American Statistical Association*
63. "An Improved Collapsed Gibbs Sampler for Dirichlet Process Mixing Models" (with T.Y. Yang), *Computational Statistics and Data Analysis*, 2006, V.50, 659-674.
64. "Targeted vs. Daily Naltrexone: Secondary analysis of Effects on Average Daily Drinking" (with C. A. Hernandez-Avila, C. Song, H. Tennen, S. Armeli, H. R.Kranzler), *Alcoholism: Clinical and Experimental Research*, 2006, 860-865.
65. "Differentiated Cells Are More Efficient Than Adult Stem Cells for Cloning by Somatic Cell Nuclear Transfer", (with L.Y. Sung, S. Gao, H. Shen, H.Yu, Y. Song, S. L. Smith, C.C.Chang, K. Inoue, J. Lain, A. Li, X. C. Tian, D. P. Tuck, S. M. Weissman, X. Yang, T. Cheng), *Nature Genetics*, 2006, V. 38, No. 11, 1323-1328.
66. "Bayesian Pathways Studies Using Microarray Data", (with Xie, W., Shin, D.G., Yu F., Zhao, Y., Chen, M-H., Rowe, D.) *2007 JSM Proceedings, Bayesian Statistical Science Section [CD-ROM]*, Alexandria, VA: American Statistical Association: pp1303-1309.
67. "Bayesian Modeling for Masked Data" in *Encyclopedia of Statistics in Quality and Reliability* (2008) Eds: F. Ruggeri, R. Kenett, and F. Faltin, Wiley & Sons. 1042-1050.
68. "Detecting Differentially Expressed Genes Using Calibrated Bayes Factors" (with F. Yu, and M. H. Chen), *Statistica Sinica*, 2008, V. 18, 783-802.
69. "Statistical Methods for Identifying Differentially Expressed Genes in Replicated Microarray Experiments: A Review" (with F. Yu, and Y. Zhao). 2008, Chapter 20, in *Statistical Advances in the Biomedical Sciences: Clinical Trials, Epidemiology, Survival Analysis and Bioinformatics*, Eds: Biswas, A., Datta, S., Fine, J., and Segal, M., Wiley, 341-363.
70. "A Preliminary Study on Combining Classifiers for Selecting Differentially Expressed Genes" (with Y. Zhao, W. Xie, F. Yu) *2008 JSM Proceedings, Business and Economics Statistics Section [CD-ROM]*, Alexandria, VA: American Statistical Association: pp2984-2990.
71. "Identification of Differentially Expressed Genes between Osteoblasts and Osteocytes" (with F. Paic, J.C. Igwe, N. Ravi, M. S. Kronenberg, T. Franceschetti, P. Harrington, D-G Shin, DW,Rowe, SE Harris, I. Kalajzic), *Bone*, 2009, V. 45, 682-692.
72. "PBC: A Software Framework Facilitating Pattern-Based Clustering for Microarray Data Analysis" (with D-G

Shin, S-H. Hong , P. Joshi, R. Nori, B. Pei, H-W. Wang, P. Harrington, I, Kalajzic I., D. Rowe), *Proceedings of the International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing*, 2009, 30 – 36.

73. “Bayesian Hierarchical Modeling and Selection of Differentially Expressed Genes for the EST Data (with F. Yu, M-H. Chen, P. Huang & W. Wang), *Biometrics*, 2010, <http://www.ncbi.nlm.nih.gov/pubmed/20560937>.

74. “Choosing among Partition Models in Bayesian Phylogenetics” (with F Yu, R Wu; MH Chen; P O. Lewis) *Molecular Biology and Evolution* 2010; doi: 10.1093/molbev/msq224.

75. “Bayesian Choice of Links and Computation for Binary Response Data” (with MH Chen, S. Kim, and W. Xie) in *Frontiers of Statistical Decision Making and Bayesian Analysis, in Honor of James O. Berger*, Eds: MH Chen, D.K. Dey, P. Muller, D. Sun, and K. Ye, Springer, 2010, 451-466.

76. “Bayesian Methods for Detecting Differentially Expressed Genes” (with F. Yu, MH Chen) in *Bayesian Modeling in Bioinformatics*, Eds: Dey, D.K., Ghosh, S. and Mallick, B., CRC Press, 2011, 365-387.

77. “Improving Marginal Likelihood Estimation for Bayesian Phylogenetic Model Selection” (with W. Xie, P.O. Lewis, Y. Fan, & M-H Chen), *Systematic Biology* 2010; doi: 10.1093/sysbio/syq085.