

Somnath Datta

Curriculum Vitae (Revised: February 7, 2012)

PERSONAL

Born July 1962, Calcutta (now Kolkata), India; US Citizen;
Married to Susmita Datta; one child, Anisha Marie Datta.

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EDUCATION

- Ph. D. (1988), Statistics and Probability, Michigan State University, East Lansing.
- M. Stat. (1985), Mathematical Statistics and Probability, Indian Statistical Institute, Calcutta.
- B. Stat. (1983), Statistics, Indian Statistical Institute, Calcutta.

ACADEMIC POSITIONS HELD

- 2005 (Summer) – present: Professor (tenured), Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, USA.
- 1998 (Fall) – 2005 (Spring): Professor, Department of Statistics, University of Georgia, Athens, GA, USA.
- 1993 (Fall) – 1998 (Summer): Associate Professor (tenured), Department of Statistics, University of Georgia, Athens, GA, USA.
- 1988 (Fall) – 1993 (Summer): Assistant Professor, Department of Statistics, University of Georgia, Athens, GA, USA.

ADMINISTRATIVE POSITIONS HELD

- 2009 (May) – present: Vice Chair, Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, USA.
- 2008 (Fall) – present: Biostatistics PhD Program Director, Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, USA.
- 2005 (Fall) – 2008 (Summer): Biostatistics Graduate Coordinator, Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, USA.

SHORT ACADEMIC VISITS

- Department of Statistics and OR, University of Vigo, Vigo, Spain, September 2010.
- Department of Mathematics for Science and Technology, University of Minho, Guimarães, Portugal, September 2010.
- Department of Statistics, Southwest Jiaotong University, Chengdu, China, May-June, 2010.
- Department of Medical Statistics and Bioinformatics, Leiden University Medical Center, May 2009.

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- School of Public Health, University of Tampere, August 2008, May 2009, June 2011.
 - Department of Statistics and Applied Probability, National University of Singapore, December 2004.
 - Math Stat Division, Indian Statistical Institute, Calcutta, July 1999.

RESEARCH

Ph. D. Dissertation Title: “Asymptotically Optimal Bayes Compound and Empirical Bayes Estimators in Exponential Families with Compact Parameter Space” (Professor James F. Hannan, Ph. D. dissertation advisor).

Research Interest (past & present): *Biostatistics, Bioinformatics, Bootstrap Methods, Causal Inference, Compound Decision, Analysis of Clustered Data, Clustering and Classification, Empirical Bayes, Genomics, Nonparametrics, Proteomics, Rank Tests, Survival Analysis, Time Series Analysis.*

Clinical: *Autism, Dental Data, Spinal Cord Injury.*

Scientific: *Solar Energy, Materials Science.*

PUBLICATIONS

* Graduate students (Thesis/Dissertation related)

110. Shah, J. S. K.*, Datta, S. and Datta, S. A multi-objective ensemble regression method (MERM) for high dimensional data. [Preprint \(2012\)](#).
109. Mertens, B. J. A., Datta, S., Brand, R. and Peul, W. Inverse probability weighting in a re-analysis for causal effect estimation of the Leiden Sciatica Trial data. [Preprint \(2012\)](#).
108. Lorenz, D. J.* and Datta, S. Linear hazards models for sojourn time distributions in a multistate model. [Preprint \(2012\)](#).
107. Nevalainen, J., Datta, S. and Oja, H. An overview of informative cluster size problems. [Preprint \(2012\)](#).
106. Lorenz, D. J.* and Datta, S. Comparing waiting times in a multistate model: A log-rank approach. *Journal of Statistical Planning and Inference*, under revision (2012).
105. Ferguson, A. N.*, Datta, S., Brock, G. msSurv, an R package for nonparametric estimation of multistate models. *Journal of Statistical Software*, under revision (2012).
104. Mostajabi, F.* and Datta, S. Nonparametric regression of state occupation, entry, exit and waiting times with multistate right censored data. *Statistics in Medicine* under revision (2012).

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103. Datta, S., Nevalainen, J. and Oja, H. A general class of signed rank tests for clustered data when the cluster size is potentially informative. *Journal of Nonparametric Statistics*, revision submitted (2012).
102. Fan, J.* and Datta, S. Mann-Whitney tests for comparing sojourn time distributions when the transition times are right censored. *Annals of the Institute of Statistical Mathematics*, revision submitted (2012).
101. Chakraborty, S.*, Datta, S. and Datta, S. Surrogate variable analysis using partial least squares (SVA-PLS) in gene expression studies. *Bioinformatics*, to appear (2012). (Available under Advanced Access, doi: 10.1093/bioinformatics/bts022)
100. Datta, S., Lorenz, D. J., Harkema, S. J. A dynamic longitudinal evaluation of the utility of the Berg Balance Scale in patients with motor incomplete spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, to appear (2012).
99. Lorenz, D. J., Datta, S., Harkema, S. J. Longitudinal patterns of functional recovery in patients with incomplete spinal cord injury receiving activity-based rehabilitation. *Archives of Physical Medicine and Rehabilitation*, to appear (2012).
98. Habtzghi, D.* and Datta, S. Goodness of fit tests for hazard function under shape restrictions. *Sankhya, Ser B*, to appear (2012). (Available under Advanced Access, doi: 10.1007/s13571-011-0033-9)
97. Satten, G. A. and Datta, S. Minimum distance type estimation of transformation parameters. *Journal of Indian Statistical Association (Golden Jubilee Volume)*, to appear (2012).
96. Forrest, G. F., Lorenz, D. J., Hutchinson, K., Van Hiel, L., Basso, D. M., Datta, S., Sisto, S. A., Harkema, S. J. Relationships between balance and walking measures at baseline and after locomotor training in incomplete SCI: impact of functional recovery. *Archives of Physical Medicine and Rehabilitation*, to appear (2012).
95. Mostajabi, F.*, Datta, S., and Datta, S. Predicting patient survival from proteomic profiles using mass spectrometry data: An empirical study. *Communications in Statistics - Simulation and Computation*, to appear (2012).
94. Datta, S. and Ferguson, A. N.* Nonparametric estimation of marginal temporal functionals in a multistate model. In *Recent Advances in System Reliability: Signatures, Multi-state Systems and Statistical Inference* (Ilia Frenkel and Anatoly Lisnianski, Eds.), Springer, London, pp. 219-236 (2011).
93. Lorenz, D. J., Datta, S. and Harkema, S. J. Marginal association measures for clustered data. *Statistics in Medicine*, 30, 3181-3191 (2011).
92. Fan, J.* and Datta, S. Fitting accelerated failure time models to clustered survival data with potentially informative cluster size. *Computational Statistics & Data Analysis*, 55, 3295-3303 (2011).
91. Pihur, V., Datta, S. and Datta, S. Meta analysis of chronic fatigue syndrome through integration of clinical, gene expression, SNP and proteomic data, *Bioinformatics*, 6, 120-124 (2011).

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90. Datta, S. and van Houwelingen, H. C. Statistics in biological and medical sciences, Editorial. *Statistics & Probability Letters*, 81, 715-716 (2011).
89. Wang, M.*, Kong, M. and Datta, S. Inference for marginal linear models with clustered longitudinal data with potentially informative cluster sizes. *Statistical Methods in Medical Research*, 20, 347–367 (2011).
88. Datta, S., Datta, S., Kim, S., Chakraborty, S. and Gill, R. S. Statistical Analyses of Next Generation Sequence Data: A Partial Overview. *Journal of Proteomics & Bioinformatics*, 3, 183-190 (2010).
87. Datta, S, Pihur, V. and Datta, S. An adaptive optimal ensemble classifier via bagging and rank aggregation with applications to high dimensional data, *BMC Bioinformatics*, 11, 427 (2010).
86. Gill, R., Datta, S. and Datta, S. A statistical framework for differential network analysis from microarray data using partial least squares, *BMC Bioinformatics*, 11, 95 (2010).
85. Lan, L.* and Datta, S. Comparison of state occupation, entry, exit and waiting times in K independent multistate models under current status data. *Statistics in Medicine*, 29, 906 - 914 (2010).
84. Datta, S., Bandyopadhyay, D.* and Satten, G. A. Inverse probability of censoring weighted U-statistics for right censored data with applications. *Scandinavian Journal of Statistics*, 37, 680–700 (2010).
83. Lan, L.* and Datta, S. Nonparametric estimation of state occupation, entry and exit times with multistate current status data. *Statistical Methods in Medical Research*, 19, 147-165 (2010).
82. Pihur, V.*, Datta, S. and Datta, S. RankAggreg, an R package for weighted rank aggregation. *BMC Bioinformatics*, 10, 62 (2009).
81. Datta, S. and Datta, S. Computational biology touches all bases. *Genome Biology*, 10, 303 (2009).
80. Datta, S., Lan, L.* and Sundaram, R. Nonparametric estimation of waiting time distributions in a Markov model based on current status data, *Journal of Statistical Planning and Inference*, 139, 2885-2897 (2009).
79. Datta, S., Lorenz, D. J., Morrison, S., Ardolino, E., Harkema, S. J. A multivariate examination of temporal changes in Berg variables for patients with AIS C and D spinal cord injuries. *Archives of Physical Medicine and Rehabilitation*, 90, 1208-1217 (2009).
78. Pihur, V.*, Brock, G., Datta, S. and Datta, S. Cluster validation for microarray data: An appraisal. In *Advances in Multivariate Statistical Methods*, (A. SenGupta, ed), Ch 5, 79-94, World Scientific Press. (2009).

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77. Pihur, V.*, Datta, S. and Datta, S. Finding cancer genes through meta-analysis of microarray experiments: Rank aggregation via the cross entropy algorithm. *Genomics*, 92, 400-403 (2008).
76. Pihur, V.*, Datta, S. and Datta, S. Reconstruction of genetic association networks from microarray data: A partial least squares approach. *Bioinformatics*, 24, 561-568 (2008).
75. Datta, S. Classification of breast cancer versus normal samples from mass spectrometry profiles using linear discriminant analysis of important features selected by Random Forest. *Statistical Applications in Genetics and Molecular Biology*, 7 (2), Article 7 (2008).
74. Brock, G., Pihur, V.*, Datta, S. and Datta, S. cIValid, an R package for cluster validation. *Journal of Statistical Software*, 25, 4 (2008).
73. Datta, S., Datta, S., Parrish, R. S. and Thompson, C. M. Microarray data analysis, In *Computational Methods in Biomedical Research*, (R. Khatree and D. Naik, eds.), Chapman & Hall/CRC Biostatistics Series, Volume 24, 1-43 (2008).
72. Datta, S. and Satten, G. A. A signed-rank test for clustered data. *Biometrics*, 64, 501-507 (2008).
71. Bandyopadhyay, D.* and Datta, S. A novel approach to testing equality of survival distributions when the population marks are missing. *Journal of Statistical Planning and Inference*, 138, 1722-1732 (2008).
70. Pihur, V., Datta, S. and Datta, S. Understanding Chronic Fatigue Syndrome (CFS) from CAMDA data: A systems biology approach. In *CAMDA 2007 Proceedings*, online @ <http://camda.bioinfo.cipf.es/camda07/agenda/detailed.html> (2007).
69. Johnson, S. B.*, Datta, S., Hornung, C. A., Casanova, M. F. Mathematical models of epigenetic influences in Autism: a new perspective based on neuropathological findings. In *Progress in Autism Research*, (Paul C. Carlisle, ed), Nova Science Publishers, Inc., 101-114, New York: New York (2007).
68. Pihur, V.*, Datta, S. and Datta, S. Weighted rank aggregation of cluster validation measures: A Monte Carlo cross-entropy approach. *Bioinformatics*, 23, 1607-1615 (2007).
67. Boratyn, G. M., Datta, S. and Datta, S. Incorporation of biological knowledge into distance for clustering genes, *Bioinformation*, 1, 396-405 (2007).
66. Datta, S., Le-Rademacher, J.* and Datta, S. Predicting patient survival from microarray data by accelerated failure time modeling using partial least squares and LASSO. *Biometrics*, 63, 259-271 (2007).
65. Zheng, H.*, Basawa, I. V. and Datta, S. First order random coefficient autoregressive processes, *Journal of Statistical Planning and Inference*, 173, 212 - 229 (2007).
64. Datta, S., and Datta, S. Combining functional information in selecting clustering algorithms. In *Proceedings of Interface 2005*, on CD-ROM (2006).
63. Datta, S. and Datta, S. Evaluation of clustering algorithms for gene expression data, *BMC Bioinformatics*, 7 (Suppl 4), S17, (2006).

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62. Datta, S. and Datta, S. Methods for evaluating clustering algorithms for gene expression data using a reference set of functional classes, *BMC Bioinformatics*, 7, 397 (2006).
61. Boratyn, G. M., Datta, S. and Datta, S. Biologically supervised hierarchical clustering algorithms for gene expression data, In *Proceedings of the 28th IEEE EMBS Annual International Conference*, New York City, USA, 5515-5518 (2006).
60. Zheng, H.* , Basawa, I. V. and Datta, S. The p-th order random coefficient autoregressive processes, *Journal of Time Series Analysis*, 27, 411-440 (2006).
59. Datta, S. and Sundaram, R. Nonparametric marginal estimation in a multistage model using current status data, *Biometrics*, 62, 829-837 (2006).
58. Datta, S. and Datta, S. Validation measures for clustering algorithms incorporating biological information, In *IEEE Proceedings of International Multi-Symposiums on Computer and Computational Sciences*, (J. Ni, J. Dongarra, Y. Zheng, G. Gu, G. Wolfgang and H. Jin, eds.), 1, 131-135 (2006).
57. Datta, S. Estimating the mean life time using right censored data. *Statistical Methodology*, 2, 65-69 (2005).
56. Datta, S. and Datta, S. Empirical Bayes screening (EBS) of many p-values with applications to microarray studies, *Bioinformatics*, 21,1987-1994 (2005).
55. Datta, S. and Satten, G. A. Rank-sum tests for clustered data, *Journal of the American Statistical Association*, 100, 908-915 (2005).
54. Datta, S. Bootstrapping, In *Encyclopedia of Statistical Sciences*, Second edition, Wiley, (2005).
53. Datta, S. Empirical Bayes methods, In *Encyclopedia of Statistical Sciences*, Second edition, Wiley, (2005).
52. Satten, G. A., Datta, S., Moura, H., Woolfitt, A., Carvalho, G., De, B. K, Pavlopoulos, A., Carlone, G. M., and Barr, J. Standardization and denoising algorithms for mass spectra to classify whole-organism bacterial specimens, *Bioinformatics*, 20, 3128-3136 (2004).
51. Datta, S. and Datta, S. An empirical Bayes adjustment to multiple p-values for the detection of differentially expressed genes in microarray experiments. In *Conferences in Research and Practice in Information Technology*, (Y-P. P. Chen, ed.), 29, 155-159 (2004).
50. Datta, S., Satten, G. A., Benos, D. J., Xia, J., Heslin, M., and Datta, S. An empirical Bayes adjustment to increase the sensitivity of detecting differentially expressed genes in microarray experiments, *Bioinformatics*, 20, 235-242 (2004).
49. Satten, G. A. and Datta, S. Marginal Analyses of Multistage Data. In *Handbook of Statistics* (N. Balakrishnan and C. R. Rao, eds.), 23, 559-574, Elsevier-North Holland (2004).

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48. Chakraborty, S. and Datta, S. How will plant pathogens adapt to host plant resistance at elevated CO₂ under a changing climate? *New Phytologist*, 159, 733-742 (2003).
47. Datta, S. and Datta, S. Comparisons and validation of statistical clustering techniques for microarray gene expression data. *Bioinformatics*, 19, 459-466 (2003).
46. Williamson, J., Datta, S., and Satten, G. A. Marginal analyses of clustered data when cluster size is informative. *Biometrics*, 59, 36-42 (2003).
45. Datta, S. and Satten, G. A. Estimation of integrated transition hazards and stage occupation probabilities for non-Markov systems under stage dependent censoring. *Biometrics*, 58, 792-802 (2002).
44. Satten, G. A. and Datta, S. Marginal estimation for Multistage models: waiting time distributions and competing risk analyses. *Statistics in Medicine*, 21, 3-19 (2002).
43. Datta, S. and Satten, G. A. Validity of the Aalen-Johansen estimators of stage occupation probabilities and integrated transition hazards for non-Markov models. *Statistics and Probability Letters*, 55, 403-411 (2001).
42. Satten, G. A., Datta, S. and Robins, J. M. An estimator for the survival function when data are subject to dependent censoring. *Statistics and Probability Letters*, 54, 397-403 (2001).
41. Satten, G. A. and Datta, S. The Kaplan-Meier Estimator as an inverse-probability-of-censoring weighted average. *American Statistician*, 55, 207-210 (2001).
40. Williamson, J. M., Satten, G. A., Hanson, J. A., Weinstock, H., and Datta, S. Analysis of dynamic cohort data. *American Journal of Epidemiology*, 154, 366-372 (2001).
39. Li, G. and Datta, S. A bootstrap approach to nonparametric regression for right censored data. *Annals of the Institute of Statistical Mathematics*, 53, 708-729 (2001).
38. Datta, S. and Satten, G. A. Estimating future stage entry and occupation probabilities in a multistage model based on randomly right-censored data. *Statistics and Probability Letters*, 50, 89-95 (2000).
37. Satten, G. A. and Datta, S. A simulate-update algorithm for missing data problems. *Computational Statistics*, 15, 243-277 (2000).
36. Datta, S. Empirical Bayes estimation with non-identical components. *Journal of Nonparametric Statistics*, 12, 709-725 (2000).
35. Datta, S., Satten, G. A. and Datta, S. Nonparametric estimation for the three-stage irreversible illness-death model. *Biometrics*, 56, 841-847 (2000).
34. Datta, S., Satten, G. A. and Williamson, J. M. Consistency and asymptotic normality of estimators in a regression model with interval censoring and left truncation. *Annals of the Institute of Statistical Mathematics*, 52, 160-172 (2000).

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33. Datta, S., Satten, G. A. and Datta, S. Estimation of stage occupation probabilities in multistage models. In *Advances on Theoretical and Methodological Aspects of Probability and Statistics*, (N. Balakrishnan, ed.), 493-506, Gordon and Breach, (2000).
32. Satten, G. A., Janssen, R., Busch, M. P., and Datta, S. Validating marker-based incidence estimates in repeatedly screened population. *Biometrics*, 55, 1224-1227 (1999).
31. Allen, M. R.* and Datta, S. Estimation of the index parameter for autoregressive data using the estimated innovations. *Statistics and Probability Letters*, 41, 315-324 (1999).
30. Satten, G. A. and Datta, S. Kaplan-Meier representation of competing risk estimates. *Statistics and Probability Letters*, 42, 299-304 (1999).
29. Allen, M.* and Datta, S. A note on bootstrapping M-estimators in ARMA models. *Journal of Time Series Analysis*, 20, 365-380 (1999).
28. Bagui, S. C. and Datta, S. Some useful properties of the Bayes risk in classification. *Calcutta Statistical Association Bulletin*, 48, 83-91 (1998).
27. Datta, S., Mathew G. and McCormick, W. P. Nonlinear autoregression with positive innovations. *Australian & New Zealand Journal of Statistics*, 40, 229-239 (1998).
26. Satten, G. A. and Datta, S. and Williamson, J. M. A semiparametric approach to the proportional hazards model for interval censored data. *Journal of the American Statistical Association*, 93, 318-327 (1998).
25. Datta, S. and McCormick, W. P. Inference for the tail parameters of a linear process with heavy tailed innovations. *Annals of the Institute of Statistical Mathematics*, 50, 337-359 (1998).
24. Datta, S. Making the bootstrap work. In *Frontiers in Probability and Statistics*, (S. P. Mukherjee, S. K. Basu and B. K. Sinha, eds), 119-129, Nasora Publishing, Narosa, New Delhi, (1998).
23. Datta, S. and Hannan, J. F. A uniform L_1 law of large numbers for functions on a totally bounded metric space. *Sankhya A*, 59, 167-174 (1997).
22. Datta, S. L_1 density estimation for linear processes. *Journal of Time Series Analysis*, 18, 375-383 (1997).
21. Datta, S. and Sriram, T. N. A modified bootstrap for autoregression without stationarity. *Journal of Statistical Planning and Inference*, 59, 19-30 (1997).
20. Datta, S. On asymptotic properties of bootstrap for AR(1) processes. *Journal of Statistical Planning and Inference*, 53, 361-374 (1996).
19. Datta, S. and McCormick, W. P. Bootstrap inference for a first order autoregression with positive innovations. *Journal of the American Statistical Association*, 90, 1289-1300 (1995).
18. Datta, S. Limit theory and bootstrap for explosive and partially explosive autoregression. *Stochastic Processes and Their Applications*, 57, 285-304 (1995).

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17. Datta, S. and Sriram, T. N. A modified bootstrap for branching processes with immigration. *Stochastic Processes and Their Applications*, 56, 275-294 (1995).
 16. Datta, S. On a modified bootstrap for certain asymptotically non-normal statistics. *Statistics and Probability Letters*, 24, 91-98 (1995).
 15. Datta, S. A minimax optimal estimator for continuous monotone densities. *Journal of Statistical Planning and Inference*, 46, 181-193 (1995).
 14. Datta, S. Consistency of the mle for a general sequential design problem. *Sankhya A*, 57, 88-99 (1995).
 13. Datta, S. and McCormick, W. P. Some continuous Edgeworth expansions for Markov chains with applications to bootstrap. *Journal of Multivariate Analysis*, 52, 83-106 (1995).
 12. Datta, S. Empirical Bayes estimation in a threshold model. *Sankhya A*, 54, 106-117 (1994).
 11. Basawa, I. V. and Datta, S. Large sample estimation for nested models. *Journal of the Indian Society of Probability and Statistics*, 1, 19-42 (1994).
 10. Datta, S. A solution to the set compound problem with certain non regular components. *Statistics & Decisions*, 11, 343-355 (1993).
 9. Datta, S. and McCormick, W. P. Regeneration based bootstrap for Markov chains. *Canadian Journal of Statistics*, 21, 181-193 (1993).
 8. Datta, S. and McCormick, W. P. On first order Edgeworth expansions for a Markov chain. *Journal of Multivariate Analysis*, 44, 345-359 (1993).
 7. Datta, S. Some non asymptotic bounds for L_1 density estimation using kernels. *Annals of Statistics*, 20, 1658-1667 (1992).
 6. Bhat, B. R. and Datta, S. On the completeness of a family of conditional distributions. *Statistics and Probability Letters*, 15, 27-30 (1992).
 5. Datta, S. A note on continuous Edgeworth expansions and the bootstrap. *Sankhya A*, 54, 171-182 (1992).
 4. Datta, S. and McCormick, W. P. Bootstrap for a finite state Markov chain based on i.i.d. resampling. In *Exploring the Limits of Bootstrap*, (L. LePage and L. Billard, eds), 77-97, Wiley, New York, (1992).
 3. Datta, S. Nonparametric empirical Bayes estimation with $O(n^{-1/2})$ rate of a truncation parameter. *Statistics & Decisions*, 9, 45-61 (1991).
 2. Datta, S. Asymptotic optimality of Bayes compound estimators in compact exponential families. *Annals of Statistics*, 19, 354-365 (1991).
 1. Datta, S. On the consistency of posterior mixtures and its application. *Annals of Statistics*, 19, 338-353 (1991).

FIVE MOST CITED PAPERS

(Google Scholar, accessed on 2/7/2012)

1. Datta and Datta - Bioinformatics, 2003, #47, Citation Count = 240.
2. Datta and Datta - BMC Bioinformatics, 2006, #62 , Citation Count = 80.
3. Chakraborty and Datta - New Phytologist, 2003, #48 , Citation Count = 67.
4. Williamson, Datta and Satten - Biometrics, 2003, #46 , Citation Count = 61.
5. Satten and Datta - American Statistician, 2001, #41 , Citation Count = 61.

EXTERNAL RESEARCH FUNDING (since 1995)

PI Level

11. **National Institutes of Health**, NIDCR, R03 grant, to be funded (currently on an approved pay plan), “Novel statistical models for dental caries”, Role: Principal Investigator. Salary, student, travel and other support.

10. **National Institutes of Health**, NIDCR, R03 grant, Grant Number: 1R03DE020839-01A1, “Rank tests for clustered data with potentially informative cluster size: Novel statistical methods for analyzing dental data”, September 2011-August 2013, Role: Principal Investigator, 2.4 cal months. Salary, student, travel and other support.

9. **National Science Foundation**, DMS, Grant Number: DMS-1125909, “SOLAR: New Materials Search for Solar Energy Conversion to Fuels”, September 2011-August 2014, Role: Co-Principal Investigator; Awarded jointly with M. Sunkara (Louisville), M. Menon (Kentucky) and K. Rajan (Iowa State). 1 cal month. Salary, post-doc, student, travel and other support.

8. **National Security Agency**, Mathematical Science Grant, Grant Number: H98230-11-1-0168, "Nonparametric Regression of State Occupation Probabilities, State Entry, Exit and Waiting Time Distributions in a Multistate Model", Mathematical Sciences Grant, March 2011-February 2013, Role: Principal Investigator, 1 cal month. Salary, student and travel support.

7. **National Science Foundation**, Statistics Program (DMS), Grant Number: DMS-0706965, “Theory and Applications of U-statistics for Multistate Models under Censoring”, July 2007-June 2011, Role: Principal Investigator, 1 cal month. Salary, student and travel.

6. **National Security Agency**, Mathematical Science Grant, Grant Numbers: H98230-05-1-0054 (Georgia), H98230-06-1-0062 (Louisville), “Nonparametric inference in censored data problems”, Jan 2005-Dec 2006, Role: Principal Investigator, 1 cal month. Salary, student, travel and computing support.

5. **Centers for Disease Control and Prevention**, Division of Molecular Biology, IPA Award, Grant Number 01 IPA 4513, “Problems in Genetic Epidemiology”, June 2001-May 2005, Role: Principal Investigator, 3 cal months. Salary support.

4. **National Security Agency**, Mathematical Science Grant, Grant Number: MDA904-03-1-0086, “Large Sample Theory of Inverse Probability of Censoring Weighted Estimation in Multistage and Mixed Linear Models”, February 2003-

January 2005, Role: Principal Investigator, 1 cal month. Salary, travel and computing support.

3. **Centers for Disease Control and Prevention**, Division of HIV/AIDS Prevention: Surveillance and Epidemiology, IPA Award, “Analysis of Complex Survival Data”, February 1997-August 2000, Role: Principal Investigator, 3 cal months. Salary support.

2. **National Security Agency**, Mathematical Science Grant, Grant number: MDA904-96-1-0049, “Inference, Bootstrap and Curve Estimation for Time Series Data”, April 1996-March 1998, Role: Principal Investigator, 1 cal month. Salary, travel and computing support.

1. **National Science Foundation**, Statistics Program (DMS), “Mathematical Sciences Computing Research Environments”, August 1995- July 1996, Role: Co-Principal Investigator (awarded jointly with L. Billard and T. N. Sriram). Computing support.

Non PI Level

5. **National Institutes of Health**, NICHD, R01 Grant, Grant Number: 1R01HD065279-01 "Gross morphological correlates to the minicolumnopathy of autism", PI: M. Casanova, September 2009- August 2011. Role: Co-Investigator, 1.2 cal months. Salary support.

4. **National Institutes of Health**, NINDS, R01 Grant, Grant Number: 1 R01 NS049209-01 A1, “Plasticity of Human Spinal Neural Networks After Injury”, PI: S. Harkema, January 2007- March 2009, Role: Principal Statistician, 1.2 cal months. Salary support.

3. **Christopher Reeve Foundation**, "Development of Neural Recovery Rehabilitation and Research Centers", PI: S. Harkema, August 2006- November 2011, Role: Senior Statistician, 1.2 cal months - 4.8 cal months. Salary support.

2. **National Institutes of Health**, NIMH, R34 Grant, "Outcomes of Teacher Training on Autism", PI: L. Ruble, 2005-2008, Role: co-Investigator, 0.6 cal months. Salary support.

1. **National Institutes of Health**, NCI, R15 Grant, “Efficient Estimation Methods for Censored Survival Data”, PI: S. Subramanian, April 2004-March 2007, Role: Consultant. Flat Fee.

OTHER FUNDING (since 1995)

1. **Elsevier**, Editorial Contract, “Statistics & Probability Letters”, June 2007 - June 2011. Role: Co-Editor-in-Chief. Honorarium, student, travel and other support.

AWARDS/HONORS

- 2011: **2010-2011 Faculty Favorite**, “An Outstanding Professor Nominated by Students”, Delphi Center for Teaching and Learning, University of Louisville.
- 2011: **CDC ATSDR 2011 Statistical Science Award**: Best Theoretical Paper, "Inverse Probability of Censoring Weighted U-statistics for Right-Censored Data with an Application to Testing Hypotheses", Datta, Somnath, Bandyopadhyay, Dipankar and Satten, Glen A., Scandinavian Journal of Statistics, 37, 680-700 (2010).
- 2010: **Elected Fellow, Institute of Mathematical Statistics.**
“For contributions to compound decision theory, bootstrap inference for Markov chains and time series, survival analysis and counting processes, and biostatistics and bioinformatics; and for editorial services to the profession.”
- 2010: **Vice-president: Forum for Interdisciplinary Mathematics**, 2011-2013.
- 2010: **Provost's Awards for Exemplary Advising** nominee, University of Louisville.
- 2009: **Elected member, International Statistical Institute.**
- 2008: **Vice-president: Forum for Interdisciplinary Mathematics**, 2009-2011.
- 2007: **Best Poster Award**, First Place, American Spinal Injury Association, 33rd Annual Scientific Meeting, for the poster " A Multivariate Examination of Temporal Change in BERG Balance Scale Variables for Patients with ASIA C AND D Spinal Cord Injuries" by S. Datta, D. Lorenz, M. Schmidt-Read, E. Ardolino, S. Morrison, and S.J. Harkema.
- 2007: Listed in **Who's Who in America**, 61st Edition.
- 2006: **Elected Fellow, American Statistical Association.**
“For outstanding research in theoretical and applied statistics including decision theory, bootstrap theory, survival analysis and analysis of microarray data.”
- 2005: **CDC ATSDR 2005 Statistical Science Award**: Best Application Paper, “Standardization and denoising algorithms for mass spectra to classify whole-organism bacterial specimens”, Satten, G. A., Datta, S., Moura, H., Woolfitt, A., Carvalho, G., De, B. K, Pavlopoulos, A., Carlone, G. M., and Barr, J. : Bioinformatics, 20, 3128-3136 (2004).

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- 2004: **CDC ATSDR 2004 Statistical Science Award:** Best Theoretical Paper, “Marginal analyses of clustered data when cluster size is informative”, Williamson, J. M., Datta, S. and Satten, G. A, *Biometrics*, 59, 36-42 (2003).
 - 2003: **Snedecor Award** nominee for the paper “Estimation of integrated transition hazards and stage occupation probabilities for non-Markov systems under stage dependent censoring” by Datta, S. and Satten, G. A.. *Biometrics*, 58, 792-802 (2002).
 - 2001: **CDC ATSDR 2001 Statistical Science Award:** Best Theoretical Paper, “A simulate-update algorithm for missing data problems”, Satten, G. A. and Datta, S. *Computational Statistics*, 15, 243-277 (2000).
 - 1999: **CDC ATSDR 1999 Statistical Science Award:** Best Theoretical Paper, “A semiparametric approach to the proportional hazards model for interval censored data”, Satten, G. A. and Datta, S. and Williamson, J. M., *Journal of the American Statistical Association*, 93, 318-327 (1998).
 - 1985-1988: Intermittent **fellowships for merit** throughout in the Ph. D. program at Michigan State University; GPA 4.0/4.0.
 - 1986: **Pass with distinction** on the Ph. D. prelims at Michigan State University.
 - 1980-1985: **First class honors with distinction** in B. Stat. and M. Stat. and many **cash awards** throughout these programs.

EDITORIAL WORK

- Editor-in-Chief (co with H. Koul), *Statistics & Probability Letters*, 2007-2012. (Handled over 1000 papers)
- Guest Editor (co with H. van Houwelingen), Special Issue on “Statistics in Biological and Medical Sciences”. *Statistics & Probability Letters*, 2010-2011.
- Associate Editor, *The American Statistician*, 2005- current.
- Associate Editor, *Communications in Statistics*, 2002-current.
- Associate Editor, *BMC Bioinformatics*, 2010-current.
- Co-Editor, *Sankhya*, 2001-2007.
- Editorial Board Member, *International Journal of Statistics and Systems*, 2004-current.

PROFESSIONAL ACTIVITIES

- Referee for *Annals of Statistics*, *Biometrics*, *Biometrika*, *Bioinformatics*, *BMC Bioinformatics*, *Communications in Statistics*, *Journal of American Statistical*

Association, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Statistical Planning and Inference, Lifetime Data Analysis, Mathematical Methods in Statistics, Sankhya, Scandinavian Journal of Statistics, Statistics in Medicine, Statistics & Decisions, Statistics and Probability Letters, Statistical Methodology and many other journals.

- Panel member: Integrative Cancer Biology and Tumor Microenvironment, National Institute of Health, 2010.
- Panel member: National Science Foundation, Statistics, 2008.
- Panel member: Integrated Cancer Biology, National Institute of Health, 2004.
- Grant reviewer for National Science Foundation.
- Grant reviewer for Portuguese Foundation for Science and Technology.
- Reviewer for Mathematical Reviews.
- Book proposal reviewer for Springer (multiple occasions).
- External evaluator for numerous promotion and tenure cases.
- External evaluator for overseas PhD dissertations.
- Organizer, Invited session on Interval Censoring, IBC 2010, Florianópolis.
- Organizer, Invited session on Proteomics, IBC 2008, Dublin.
- Organizer, Invited session on Multistate Models, JSM 2007.
- Chair, Invited session on Statistics in Genomics, JSM 2004.
- Member of American Statistical Association, Institute of Mathematical Statistics, International Statistical Institute, International Biometric Society (ENAR), International Indian Statistical Association, International Society for Computational Biology (past), International Society for Clinical Biostatistics, Forum for Interdisciplinary Mathematics.

UNIVERSITY SERVICES (selected list)

At University of Georgia:

- Member, Promotion and Tenure Committee, Franklin College of Arts and Science.
- Member, Promotion and Tenure Committee, University of Georgia.
- Member, Faculty Senate

At University of Louisville:

- Member, Promotion and Tenure Committee, School of Public Health and Information Sciences (Committee Chair for two 3-year terms).
- Member, Curriculum Committee, School of Public Health and Information Sciences.
- Member, Academic Affairs Committee, School of Public Health and Information Sciences.

TEACHING**At University of Georgia (1988—2005):**

- STA 2000: Elementary Statistics. Large lecture format (150--250 students).
- STA 8530: Advanced Statistical Inference 1. Ph. D. core course.
- STA 8540: Advanced Statistical Inference 2. Ph. D. core course.
- STA 8550: Asymptotic Inference. Ph. D. level. Books used Asymptotic Statistics by van der Vaart and Approximation Theorems of Mathematical Statistics by Serfling.
- STA 8570: Statistical Decision Theory. Books used Statistical Decision Theory by Berger and Mathematical Statistics: A Decision Theoretic Approach by Ferguson.
- STA 8650: Bootstrapping Techniques. Books used The Jackknife, the Bootstrap and Other Resampling Plans by Efron and The Bootstrap and Edgeworth Expansion by Hall.
- STA 9270/80: Supervised Statistical Consulting. Students get real life experience in Statistical Consulting.
- STA 3330: Advanced Applications and Computing. Book used Modern Applied Statistics with S, 4th Edn., by W. N. Venables and B. D. Ripley.
- STA 8990: Special Topics in Statistics. A course in advanced survival analysis offered to the Ph.D. students. Book used Statistical Models Based on Counting Processes by Andersen, Gill, Borgan and Keiding.
- STA 4/6380: Survival Analysis. An introductory course in Survival Analysis.
- STA 4/6240: Sampling and Survey Methods. An introductory course in sampling.

At University of Louisville (2005 - current):

- PHST 762: Advanced Statistical Inference. PhD (Biostatistics concentration) core course.
- PHST 783: Advanced Survival Analysis. PhD (Biostatistics concentration) core course.

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- PHST 780: Advanced Nonparametrics. PhD (Biostatistics concentration) elective course.
 - Numerous Independent Study courses.

GRADUATE STUDENTS MENTORED (Major Professor)

PhD

1. Michael R. Allen, *"Inference and Bootstrap for Some Linear Time Series Models."* Completed: Summer 1997. Currently an Associate Professor in the Department of Mathematics, Tennessee Technological University, Cookeville, TN 38505.
2. S. Kim (jointly with I. V. Basawa), *"Inference for Nonlinear Time Series Models via Estimating Functions."* Completed: Spring 1998. Currently at Department of Applied Statistics, Chung-Ang University, Seoul, 156-756, Korea.
3. HaiTao Zheng (jointly with I. V. Basawa), *"Inference for Time Series Models for Count Data."* Completed: Summer 2005. Currently a Full Professor in the Department of Statistics, Southwest Jiaotong University, Chengdu, China.
4. Dipankar Bandopadhyay, *"Novel Nonparametric Methods for Event Time Data."* Completed: Spring 2006. Currently an Associate Professor in the Division of Biostatistics, University of Minnesota School of Public Health, Minneapolis, MN 55455. First employment at Department of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC 29425.
5. DeSole Habtzghi (jointly with M. Meyer), *"Maximum Likelihood Based Estimation of Hazard Function under Shape Restrictions and Related Statistical Inference."* Completed: Spring 2006. Currently an Associate Professor in the Department of Statistics, University of Akron, Akron, OH 44325.
6. Ling Lan, *"Inference for Multistate Models."* Completed: Summer 2008. Currently an Assistant Professor in the Department of Biostatistics and Epidemiology, Medical College of Georgia, Augusta, GA 30912.
7. Vasyl Pihur (jointly with Susmita Datta), *"Statistical Methods for High-Dimensional Genomics Data Analysis."* Completed: Summer 2009. Currently at Google Inc. First employment at Department of Biostatistics (Irizarry Lab), Johns Hopkins University, Baltimore, MD 21218.
8. Jie Fan, *"Inference for Time to Event and Sojourn Time Data under Right Censoring Using Reweighting Approaches."* Completed: Summer 2010. Currently at Ascend One, Columbia, MD. First employment at Lombardi Cancer Center, Georgetown University, Washington, D.C. 20007.
9. Doug Lorenz (Department of Mathematics, jointly with R. Gill), *"Marginal Nonparametric Inference for Waiting Times in Multistage Models: Hypothesis Testing and Regression."* Completed: Spring 2010. Currently an Assistant Professor in the Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY 40202.

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10. Farida Mostajabi (jointly with Susmita Datta), "*Regression Methods for Survival and Multistate Models*". Completed: Summer 2011. Currently at Medpace Inc., Cincinnati, OH 45227.
 11. Nicole Ferguson (jointly with G. Brock), "*Methods and Software for Nonparametric Estimation in Multistate Models*." Completed: Summer 2011. Currently an Assistant Professor in the Department of Mathematics and Statistics, Kennesaw State University, Atlanta, GA 30144.
 12. Sutirtha Chakraborty (jointly with Susmita Datta). "*Multistate Models and Omics Data*." Expected completion: Summer 2013.

MS

1. Cathleen Gillespie, "*Intra-Individual Variation in Serum Vitamin A Measures Among Participants in the Third National Health and Nutrition Examination Survey 1988-1994*." Completed: Spring 2002.
2. Yang Fan, "*A New Bivariate Survival Function Estimator under Random Right Censoring*." Completed: Spring 2005.
3. Vasyl Pihur, "*Weighted Rank Aggregation of Cluster Validation Measures: A Monte Carlo Cross-Entropy Approach*." Completed: Spring 2007.
4. Jie Fan (jointly with G. Brock), "*Imputation Based Statistical Tests for Right Censored Data*." Completed: Summer 2007.
5. Bart Brown (jointly with G. Brock), "*A Novel Method for Reference Interval Estimation Using the Inverted Q-Q Plot*." Completed: Summer 2007.
6. Ming Wang (jointly with M. Kong), "*Analysis for Clustered Longitudinal Data*." Completed: Summer 2008.
7. Daniel Riggs, "*An Investigation of Sliced Inverse Regression with Censored Data*." Completed, Summer 2010.

INVITED TALKS

Conferences

54. Statistical Concepts and Methods for the Modern World, Colombo, Sri Lanka, December 28-30, 2011.
53. 4th International Conference of the ERCIM WG on Computing & Statistics, University of London, UK, December 17-19, 2011.
52. 3rd Nordic-Baltic Biometric Conference, Turku, Finland, June 6-9, 2011.
51. Applied Stochastic Models and Data Analysis (ASMDA 2011), Rome, Italy, June 7 - 10, 2011.

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50. Workshop on Statistical Challenges in Life History Analysis at the Centre de Recherches Mathematiques, Montreal, Canada, May 16-19, 2011.
 49. DUSDAA, The First International Conference on Theory and Applications of Statistics, Dhaka University, Dhaka, Bangladesh, December 26-29, 2010.
 48. XXXII National Congress of Statistics and Operations Research and the VI Meeting on Public Statistics, A Coruña, Spain, September 14-17, 2010.
 47. LinStat'2010 - International Conference on Trends and Perspectives in Linear Statistical Inference, Tomar, Portugal, July 27-31, 2010. KEYNOTE LECTURE.
 46. Conference on Nonparametric Statistics and Statistical Learning, The Ohio State University, Columbus, OH, May 19 - 22, 2010.
 45. Discussant, Session on Current Issues in Statistical Proteomics, ENAR 2010, New Orleans, USA, March 21-24, 2010.
 44. The International Symposium on Stochastic Models in Reliability Engineering, Life Sciences, and Operations Management (SMRLO'10), Beer Sheva, Israel, February 8-11, 2010.
 43. VIII IISA Joint Statistical Meeting, Visakhapatnam, India, January 4-8, 2010.
 42. Seventh International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India, December 28 - 31, 2009.
 41. Joint Statistical Meetings, August 1-6, 2009, Washington DC.
 40. First IMS-Pacific Rim Meeting, Discussant for an invited session on "Statistics in Health Sciences", Seoul, June 28-July 1, 2009.
 39. Symposium on New Directions in Asymptotic Statistics, University of Georgia, Athens, May 15-16, 2009.
 38. Winemiller 2008: Conference on Survival Analysis and Its Applications, October 16-18, 2008, Columbia, Missouri.
 37. Joint Statistical Meetings, August 3 - 7, 2008, Denver, Colorado.
 36. Nonparametric Statistics and Mixture Models: Past, Present and Future, May 22-25, 2008, State College, PA.
 35. Conference on Recent Advances in Statistics - In honor of Hira Koul's 65th birthday, The Re-weighting Approach in Survival Analysis, May 15-17, 2008, E. Lansing, MI.
 34. ENAR 2008, Nonparametric Estimation of State Waiting Time Distributions in a Markov Multistate Model, Arlington, Virginia. March 16-19, 2008.
 33. Discussant, Session on Multistate Models under Complex Censoring, JSM 2007, July 29, 2007, Salt Lake City, UT, USA.

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32. Discussant, Session on Interval Censored Data, ENAR 2007, March 12, 2007, Atlanta, GA, USA.
 31. Classification Competition on Clinical Mass Spectrometry Proteomic Diagnosis Data: Presentation of Results, Leiden University Medical Center, March 1, 2007, Leiden, The Netherlands.
 30. International Conference on Statistics, Probability and Related Areas by IISA, January 2-5, 2007, Cochin, India.
 29. International Conference on Multivariate Statistical Methods, Dec 28-29, 2006, Kolkata, India.
 28. Discussant, Session on Genomics & Proteomics, International Biometric Society Conference IBC 2006, Montreal, Canada, July, 2006.
 27. International Multi-Symposiums on Computer and Computational Sciences (IMSCCS|06), June 20-24, 2006, Zhejiang University, Hangzhou, China.
 26. SCMA 2005 / FIM XII, Twelfth International Conference on Statistics, Combinatorics, Mathematics and Applications, December 2-4, 2005, Auburn University, Auburn, AL, USA.
 25. Workshop on Statistical Analysis of Complex Event History Data, Norwegian Academy of Science and Letters, August 31-September 2, 2005, Oslo, Norway.
 24. Joint Annual Meeting of the Interface and the Classification Society of North America, June 8, 2005 - June 12, 2005, Washington University School of Medicine, St. Louis, MO.
 23. International Conference on Future of Statistical Theory, Practice and Education, December 29, 2004 - January 1, 2005, Hyderabad, India.
 22. Eleventh International Conference on Interdisciplinary Mathematical and Statistical Techniques, SCRA 2004, December 27-29, 2004, Lucknow, India.
 21. International Conference on Statistics in Health Sciences, June 23-23, 2004, Nantes, France.
 20. IISA Conference, May 2004, University of Georgia, Athens, USA.
 19. International Conference on Reliability and Survival Analysis 2003, May 2003, Department of Statistics, University of South Carolina, Columbia, USA.
 18. SCRA 2002, International Conference on Statistics, Combinatorics and Related Areas and the Ninth International Conference of the Forum for Interdisciplinary Mathematics, December 2002, Allahabad, India.
 17. International Conference on Current Advances and Trends in Nonparametric Statistics, July 2002, Crete, Greece.
 16. IISA International Conference on Statistics, Probability and Related Areas, June 2002, Dekalb, Illinois, USA.
 15. SCRA 2001, International Conference on Statistics, Combinatorics, and Related Areas, December 2001, Wollongong, Australia.

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14. IISA-JSM-INDIA 2000-2001, International conference on Statistics and Probability, December 2000-January 2001, New Delhi, India.
 13. Sixth International Conference on Statistics, Combinatorics, and Related Areas, December 1999, Mobile, Alabama, USA.
 12. ENAR Spring Meeting, March, 1999, Atlanta, Georgia.
 11. IISA Conference, October, 1998, McMaster University, Hamilton, Canada.
 10. Conference in honor of Jim Hannan, May 1998, Michigan State University, East Lansing, MI, USA.
 9. Special Session on Applied Probability, AMS meeting, October, 1996, Chattanooga, TN, USA.
 8. Symposium on Estimating Functions, March 1996, Athens, Georgia, USA.
 7. SRCOS/ASA Summer Research Conference (Discussion Leader), June 1995, Indialantic, Florida.
 6. INFORMS Applied Probability Conference, June 1995, Atlanta, Georgia, USA.
 5. IMS, ENAR Joint Spring Meeting, March, 1995, Birmingham, Alabama, USA.
 4. Second International Triennial Calcutta Symposium on Probability and Statistics, December 1994, Calcutta, India.
 3. First IMS North American New Researcher's Meeting, August 1993, Berkeley, California.
 2. The Third Canadian Conference in Applied Statistics, May 1991, Statistics Canada, Montreal, Canada.
 1. 214 IMS Meeting (special topic Bootstrap), May 1990, East Lansing, USA.

Colloquia:

32. Department of Statistics, University of Georgia, Athens, July 15, 2011.
31. Steklov Mathematical Institute of Academy of Sciences, St. Petersburg, Russia, June 17, 2011.
30. School of Public Health, University of Tampere, Tampere, Finland, June 13, 2011.
29. Department of Statistics and OR, University of Vigo, Vigo, Spain, September 13, 2010.
28. Biostatistics Branch, National Institute of Environmental Health Sciences, Research Triangle Park, NC, September 15, 2009.
27. Department of Medical Statistics and Bioinformatics, Leiden University Medical Center, Leiden, The Netherlands, May 12, 2009.
26. School of Public Health, University of Tampere, Tampere, Finland, May 6, 2009.

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25. Department of Statistics, University of California, Davis, November, 2008.
 24. Department of Statistics and Probability, Michigan State University, E. Lansing, March 2007.
 23. Department of Statistics, University of Kentucky, Lexington, October 2005.
 22. ASA Kentucky Chapter, Frankfort, September 2005.
 21. Department of Statistics and Applied Probability, National University of Singapore, December 2004.
 20. Department of Bioinformatics and Biostatistics, University of Louisville, November 2004.
 19. Department of Biostatistics, University of Minnesota, March 2004.
 18. CHEDA user group, BimCore and Department of Biostatistics, Emory University, March 2004.
 17. Department of Mathematics, Univ. of N. Carolina, Charlotte, April 2003.
 16. Department of Biostatistics, Emory University, March 2003.
 15. Department of Statistics, Univ. of S. Carolina, Columbia, October 2001.
 14. Department of Biostatistics, Univ. of Alabama, Birmingham, August 2001.
 13. School of Industrial and Systems Engineering, Georgia Tech., Atlanta, April 2001.
 12. Indian Statistical Institute, Calcutta, India, July 1999.
 11. Department of Statistics, Texas A&M University, College Station, May 1996.
 10. Department of Statistics, Univ. of North Carolina, Chapel Hill, April 1995.
 9. Department of Statistics, SUNY at Buffalo, Buffalo, February 1995.
 8. Department of Mathematics, Univ. of North Carolina, Charlotte, February 1995.
 7. Division of Statistics and Mathematics, Indian Statistical Institute, Calcutta, India, September 1992.
 6. Computer Science Unit, Indian Statistical Institute, Calcutta, India, August 1992.
 5. Department of Statistics, Iowa State University, Ames, September 1989.
 4. Department of Statistics, University of Wisconsin, Madison, September 1989.
 3. Department of Statistics and Probability, Michigan State University, East Lansing, June 1989.
 2. Department of Statistics, Purdue University, West Lafayette, February 1988.
 1. Department of Mathematics, McGill University, Montreal, Canada, January 1988.

REFEREED ORAL PRESENTATIONS

4. MCP 2009: The 6th International Conference on Multiple Comparison Procedures, Tokyo, Japan, 2009.
3. 29th Annual Conference of the International Society of Clinical Biostatistics, August 17-21, 2008, Copenhagen, Denmark.
2. CAMDA 2007, Analysis of CSF data, December 13-14, Valencia, Spain.
1. The Second Asia Pacific Bioinformatics Conference 18-22 Jan, 2004, Dunedin, New Zealand.

CONTRIBUTED TALKS/POSTERS

10. JSM, Vancouver, Canada, August 2010. Topic Contributed.
9. ISMB, Vienna, Austria, July 2007.
8. Research Louisville, Louisville, October 2005.
7. JSM 2004, Toronto, August 2004.
6. ENAR Spring Meeting, Pittsburgh, March 2004.
5. IBS Meeting, Cape Town, South Africa, December 1998.
4. IBS Meeting, Amsterdam, The Netherlands, July 1996.
3. 56th IMS Annual Meeting, San Francisco, August 1993.
2. Second International Symposium on Probability and Its Applications, Bloomington, March 1993.
1. Special Contributed Session, 5th Purdue Symposium on Statistical Decision Theory and Related Topics, W. Lafayette, Indiana, June 1992.

WORKSHOPS/MEETINGS ATTENDED

5. Rocky '08, 6th Annual Rocky Mountain Bioinformatics Conference, Snowmass, CO, December, 2008.
4. NIEHS SNPs Workshop, Brown Hotel, Louisville, KY, January 2008.
3. UT-ORNL-KBRIN Bioinformatics Summit 2008, Lake Barkley State Park, KY, April, 2008.
2. UT-ORNL-KBRIN Bioinformatics Summit 2006, Lake Barkley State Park, KY, April, 2006.
1. Symposium on Multivariate Analysis, Hong Kong Baptist College, Hong Kong, March 1992.

REFERENCES

Dr. Glen A. Satten
Division of Laboratory Sciences
Centers for Disease Control & Prevention
Atlanta, GA 30329
gsatten@cdc.gov

Prof. Hannu Oja
Tampere School of Health Sciences
University of Tampere
FIN-33014, Finland
Hannu.Oja@uta.fi

Prof. Soumendra N. Lahiri
Department of Statistics
Texas A & M University
College Station, TX 77843
snlahiri@stat.tamu.edu

Prof. Hira L. Koul
Department of Statistics & Probability
Michigan State University
East Lansing, MI 48824
koul@stt.msu.edu