

## Resume

### Personal Information:

Name: Malay Ghosh  
Date of Birth: April 15, 1944  
Place of Birth: Calcutta, India  
Marital Status: Married with two children  
Citizenship: American

Office Address: Department of Statistics  
University of Florida  
223 Griffin-Floyd Hall  
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Gainesville, FL 32606

### Educational Qualifications:

1. Graduated (B.A.) with Statistics (Honors) in 1962 from the Calcutta University, Calcutta; *First Class First, Gold Medalist*.
2. Graduated (M.A.) in Statistics in 1964 from the Calcutta University, Calcutta; *First Class First, Gold Medalist*.
3. Graduated (Ph.D.) in Statistics in 1969 from the University of North Carolina, North Carolina.

### Professional Experience:

1. Lecturer in Statistics, Presidency College, Calcutta, (APR 65 - AUG 66).
2. Research Assistant, Department of Statistics, UNC, Chapel Hill, NC, (SEP 66 - MAY 67).
3. Business Mathematician, Corporate Headquarters, IBM, Armonk, NY, (JUN 67 - AUG 67).

4. Research Assistant, Department of Statistics, UNC, Chapel Hill, NC, (SEP 67 - MAY 68).
5. Research Assistant, Department of Biostatistics, UNC Chapel Hill, NC, (JUN 68 - AUG 69).
6. Post Doctoral Fellow, Department of Biostatistics, UNC, Chapel Hill, NC, (SEP 69 - AUG 70).
7. Systems Engineer, IBM World Trade Corporation, Calcutta, India, (NOV 70 - JAN 71).
8. Associate Professor, Indian Statistical Institute, Calcutta, India, (FEB 71 - OCT 77).
9. Visiting Associate Professor, Department of Biostatistics, UNC, Chapel Hill, NC, (JUN 74 - AUG 74).
10. Visiting Associate Professor, Department of Statistics, Iowa State University, Ames, IA, (SEP 74 - MAY 77).
11. Professor, Indian Statistical Institute, Calcutta, India, (NOV 77 - FEB 78).
12. Professor, Department of Statistics, Iowa State University, Ames, IA, (MAR 78 - JUL 82).
13. Professor, Department of Statistics, University of Florida, Gainesville, FL, (AUG 82 - JUL 98).
14. Distinguished Professor, Department of Statistics, University of Florida, Gainesville, FL, (AUG 98- ).
15. ASA Senior Research Fellow (January 15, 1990 - July 15, 1990): 50% at the Bureau of the Census; 50% at the Bureau of Labor 0% Statistics.
16. Eugene Lukacs Distinguished Visiting Professor of Statistics at the Bowling Green State University (Fall, 1993).
17. Visiting Professor of Biostatistics, University of Minnesota (March, 1994–May,1994).
18. Honorary Consultant, Institute for Social Research, University of Michigan (1994 to date).
19. ASA/NSF/Census Research Fellow (August, 2001-December, 2001).
20. Visiting Professor, Texas A & M University (January, 2002-April, 2002).
21. ASA/NSF/Census Research Fellow (August, 2008-December, 2008).
22. Visiting Professor, National University of Singapore (January, 2009-April, 2009).

### **Professional Honor:**

1. Elected Fellow of the American Statistical Association.
2. Elected Fellow of the Institute of Mathematical Statistics.
3. Elected Member of the International Statistical Institute.

### **Awards:**

1. Recipient of T.I.P., 1994.
2. Recipient of P.E.P. 1996.

### **Scholarships:**

1. West Bengal Government Junior Scholarship (1958 - 1960).
2. West Bengal Government Senior Scholarship (1960 - 1962).
3. National Scholarship Certificate and Post Graduate Merit Scholarship (1962 - 1964).

### **Professional Membership:**

1. Member, Institute of Mathematical Statistics.
2. Life Member, Calcutta Statistical Association.
3. Life Member, American Statistical Association.
4. Member, International Statistical Institute.
5. Life Member, Indian Society of Probability and Statistics
6. Life Member, International Indian Statistical Association

### **Editorial Experience:**

1. Editor, *Sankhya B*, July, 2007-December, 2011.
2. Editor, *Sequential Analysis*, January, 1996 -December, 2003.
3. Editorial Secretary, *Sankhya*, August 1972 - July 1974.
4. Member, Journal Committee of *Sankhya A and B*, August 1976 - December, 1999.

5. Associate Editor: Book Reviews Section of the *Journal of the American Statistical Association* - November 1980 - February 1983.
6. Member of the Editorial Board of *Sequential Analysis*, January 1981 - December, 1995.
7. Member of the Advisory Board of *Statistics and Decisions* - November 1980 - December 1988.
8. Member, Editorial Board of *Statistics and Decisions*, January 1989 - December, 2001.
9. Co-Editor: Special Issue of *Communications in Statistics* entitled: "Stein-Type Multivariate Estimation" (1986).
10. Member of the Editorial Board of *Communications in Statistics, Theory and Methods* - October 1987 - December, 1994.
11. Associate Editor: *Journal of Nonparametric Statistics* - January 1990 - December 1992.
12. Associate Editor: *Journal of Statistical Planning and Inference* - January 1992 - December, 1994.
13. Adjunct Associate Editor of the *Annals of Statistics* (1994).
14. Member of the Editorial Board of *Statistics*, July, 1994 - December, 2000.
15. Member of the Editorial Board of *Journal of Statistical Research* January, 1995 - To date.
16. Co-Editor, *Sankhya* - January, 2000-December, 2007).
17. Associate Editor, *American Statistician* - January, 2000-December, 2008.
18. Associate Editor, *Metron*, January, 2003-December, 2006.

### **Courses Taught:**

1. Intermediate Probability and Inference.
2. Advanced Inference
3. Sequential Analysis.
4. Nonparameteric Inference.
5. Decision Theory.

6. Large Sample Theory.
7. General Theory of Linear Estimation and Hypothesis Testing.
8. Multivariate Analysis.
9. Descriptive Statistics.
10. Statistical Models.
11. Statistical Methods.
12. Multivariate Nonparametric Inference.
13. Reliability Theory.
14. Introductory Probability Theory.
15. Introductory Inference.
16. Advanced Probability Theory.
17. Introductory Statistical Methods.
18. Applied Bayesian Statistics.
19. Bayesian Theory
20. Likelihood

### **Ph.D. Guidance:**

1. Dr. Nitis Mukhopadhyay of the Indian Statistical Institute, Calcutta, has written his Ph.D. dissertation on some aspects of sequential estimation and prediction under my supervision (1976).
2. Dr. David Stores of the Iowa State University has written his Ph.D. dissertation on limit theorems for order statistics and rank order statistics for mixing sequences of random variables under my supervision (1976).
3. Dr. Ratan Dasgupta of the Indian Statistical Institute has written his Ph.D. dissertation on non-uniform rates of convergence to normality under my supervision (1979).
4. Dr. Ahmad Parsian of the Iowa State University has written his Ph.D. dissertation on admissible and minimax multiparameter estimation in exponential families under my supervision (1979).

5. Dr. Nader Ebrahimi of the Iowa State University has written his Ph.D. dissertation on some aspects of reliability theory under my supervision (1980).
6. Dr. Ahmad Razmpour of the Iowa State University has written his Ph.D. dissertation on estimation of location and scale parameters in some non-regular cases under my supervision (1982).
7. Dr. Richard Auer of the Iowa State University has written his Ph.D. dissertation on shrinkage estimators for multiple parameters under my supervision (1982).
8. Dr. Francisco Zamudio has written his Ph.D. dissertation on estimation of multiple Poisson means: a compromise between maximum likelihood, Bayes and empirical Bayes estimators under my supervision (1983).
9. Dr. David Nickerson of the University of Florida has written his Ph.D. dissertation on Sequential shrinkage estimation under my supervision (1985).
10. Dr. Partha Lahiri of the University of Florida has written his Ph.D. dissertation on robust empirical Bayes estimation in finite population sampling under my supervision (1986).
11. Dr. M. C. Yang of the University of Florida has written his Ph.D. dissertation on simultaneous estimation of Poisson means under entropy loss, under my supervision (1986).
12. Dr. Lily L. Mantelle of the University of Florida has written her Ph.D. dissertation on inference for two-parameter exponentials under type I censoring under my supervision (1987).
13. Dr. Michael Hoekstra of the University of Florida has written his Ph.D. dissertation on asymptotically optimal stopping rules for multiparameter estimation under my supervision (1988).
14. Dr. Li Chu Lee of the University of Florida has written her Ph.D. dissertation on empirical Bayes estimation of the response function in regression model under my supervision (1989).
15. Dr. Gauri Datta of the University of Florida has written his Ph.D. dissertation on Bayesian prediction in mixed linear models: applications to small area estimation under my supervision (1990).
16. Dr. Gwown Shieh of the University of Florida has written his Ph.D. dissertation under my supervision on empirical Bayes minimax estimation of matrix normal means under my supervision (1990).

17. Dr. Robert Baskin of the University of Florida has written his Ph.D. dissertation under my supervision on confidence sets for functions of variance components in a mixed linear model (1991).
18. Dr. Sudeep Kundu of the University of Florida has written his Ph.D dissertation under my supervision on decision theoretic approach to variance estimation (1992).
19. Dr. N. Nangia of the University of Florida has written his Ph.D. dissertation under my supervision on Bayesian time series analysis of small domain data (1992).
20. Dr. Kannan Natarajan of the University of Florida has written his Ph.D. dissertation under my supervision on hierarchical Bayes analysis of discrete and continuous data (1993).
21. Dr. Dal Ho Kim of the University of Florida has written his Ph.D. dissertation under my supervision on robust Bayesian inference in finite population sampling (1994).
22. Dr. Atalanta Ghosh of the University of Florida has written his Ph.D. dissertation under my supervision on Bayesian analysis of item reponse models (1996).
23. Dr. Somnath Sarkar of the University of Florida has written his Ph.D. dissertation under my supervision on empirical Bayes estimation of means from stratified samples (1996).
24. Dr. Cynthia Garvan of the University of Florida has written her Ph.D. dissertation under my supervision on noninformative priors for dispersion models (1996).
25. Dr. Schultz Chan of the University of Florida has written his Ph.D. dissertation under my supervision on convexity and the geometry of estimating functions (1996).
26. Dr. Ming Yin of the University of Florida has written his Ph.D. dissertation under my supervision on noninformative priors with applications (1997).
27. Dr. Chen-Pin Wang has written her Ph.D dissertation under my supervision on Bayesian analysis of competing risks models (1999).
28. Dr. Yeong-Hwa Kim of the University of Florida has written his Ph.D. dissertation under my supervision on the development of default Bayesian priors (2000).

29. Dr. Jungeun Heo of the University of Florida has written her Ph.D. dissertation under my supervision on nonformative priors, credible sets and Bayesian hypothesis testing (2000).
30. Dr. Y. Buu of the University of Florida has written her Ph.D. dissertation under my supervision on statistical analysis of rater effects (2003).
31. Dr. Samiran Sinha has written his Ph.D. dissertation under my supervision on semiparametric Bayesian methods for matched case-control problems (2004).
32. Dr. Myung Joon Kim of the University of Florida has written his Ph.D. dissertation under my supervision on constrained Bayes and empirical Bayes estimation (2004).
33. Dr. Karabi Sinha of the University of Florida has written her Ph.D. dissertation under my supervision on measurement error models for small area estimation (2004).
34. Dr. Sounak Chakraborty has written his Ph.D. dissertation under my supervision on Bayesian Learning. (2005).
35. Dr. Li Zhang has written her Ph.D. dissertation under my supervision on Bayesian Case-Control methodology.
36. Dr. Victor Mergel has written his Ph.D. dissertation under my supervision on Divergence Loss in Decision Theory and Selection of Priors.
37. Dr. Ananya Roy has written her Ph.D. dissertation under my supervision on Applications to Small Area Estimation.
38. Dr. George Papageorgiou has written his Ph.D. under my supervision on Multivariate Limited Translation Bayes and Empirical Bayes Estimators.
39. Dr. Upasana Santra finished her Ph.D. under my supervision on Probability Matching Priors.
40. Dr. Ruitao Liu finished his Ph.D. under my supervision on Divergence Priors.
41. Dr. Dhiman Bhadra finished his Ph.D. under my supervision on penalized splines with applications to small area estimation and case-control studies.
42. Ms. Jihyun Song finished her Ph.D. under my supervision on posterior equivalence of odds ratios under retrospective and prospective likelihoods.
43. Mr. Douglas Sparks is currently working towards his Ph.D. under my supervision on posterior consistency under hierarchical priors.



44. Ms. Rebecca Steorts is currently working towards her Ph.D. under my supervision on Bayesian and empirical Bayes benchmarking for small area estimation.
45. Ms. Meixi Guo is currently working towards her Ph.D. under my supervision on empirical Bayes estimation under measurement error models.
46. Mr. Shibasis dasgupta is currently working towards his Ph.D. under my supervision on LASSO and covariance estimation.
47. Mr. Lei Huang is currently working towards his Ph.D. under my supervision on Bayesian nonparametrics.
48. Mr. Ke Li is currently working towards his Ph.D. under my supervision on multiple testing.
49. Ms. Trang Nguyen is currently working towards her Ph.D. under my supervision on case-control problems.
50. Mr. Xiaofan Xu is currently working towards his Ph.D. under supervision on machine learning.

### **Grants and Contracts:**

1. Principal Investigator of NSF Grant No. MCS - 7900274 with the Project Title, “Simultaneous Estimation of Parameters in Exponential Families”. (1979-1980).
2. Co-principal Investigator (with H.A. David) of Army Research Office Grant No. DAA2979-C-0083 with the Project Title, “Order Statistics and Nonparametric Statistics”. (1979-1982).
3. Principal Investigator of NSF Grant No. MCS - 8005485 with the Project Title, “Admissibility in Multiparameter Estimation and in Finite Population Sampling”. (1980-1982).
4. Principal Investigator of NSF Grant No. MCS - 8202116 with the Project Title, “Admissibility in Multiparameter Estimation and in Finite Population Sampling”. (1982-1983).
5. Co-Principal Investigator (with H.A. David) of Army Research Office Grant No. DAAG2982-K-0136 with the Project Title, “Order Statistics and Nonparametric Statistics”. (1982-1984).
6. Principal Investigator of NSF Grant No. MCS - 8218091 with the Project Title, “Admissibility in Multiparameter Estimation and in Finite Population Sampling”. (1983-1984)

7. Principal Investigator of NSF Grant No. DMS - 8418091 with the Project Title, "Multiparameter Estimation and Estimation in Finite Population Sampling". (1984-1986).
8. Principal Investigator of DSR (University of Florida) Research Development Award with Project Title, "Nonparametric Estimation and Estimation in Finite Population Sampling". (1984).
9. Conference Director: NSF-CBMS supported Regional Conference on "Multivariate Estimation: A Synthesis of Bayesian and Frequentist Approaches" at University of Florida (January 7-11, 1985).
10. Principal Investigator of NSF Grant No. DMS - 8600666 with the Project Title, "Multiparameter Estimation and Estimation in Finite Population Sampling". (1986-1987).
11. Principal Investigator of the NSF Grant No. DMS - 8701814 with the Project Title, "Empirical and Hierarchical Bayes Estimation in Finite Population Sampling, Quality Assurance and Random Effects Models". (1987-1989).
12. Principal Investigator of NSF Grant No. DMS-8901334 with the Project Title "Hierarchical and Empirical Bayes Estimation in Survey Sampling, Linear Models and Quality Assurance". (1989-1992).
13. ASA Senior Research Fellowship with the Project Title "Small Area Estimation". January 15 - July 15, 1990.
14. Joint Statistical Agreement with the Census Bureau with Project Title "Multivariate Empirical and Hierarchical Bayes Methods for Small Area Estimation".
15. Principal Investigator of NSF Grant No. SES-9201210 with Project Title "Bayesian Methods and Inference". (1992-1995).
16. Principal Investigator of NSA Grant No. MSPF-11-94 with Project Title "Conference on Topics in Generalized Linear Models". (1994-1995).
17. Co-Principal Investigator of NIH Grant No. 93092837 with Project Title "Conference on Topics in Generalized Linear Models". (1993-1995).
18. Principal Investigator of NSF Grant No. SBR-9423996 with Project Title "Bayesian Methods for Small Area Estimation and Latent Structure Models". (1995-1998).
19. Principal Investigator of NSF Grant No. SBR-9810968 with Project Title "Parametric and Semiparametric Bayesian Methods for Small Area Estimation". (1998-2000).

20. Principal Investigator of NSF Grant No. SES-9911485 with Project Title “Bayesian and Likelihood Based Multilevel Models for Small Area Estimation”. (2000-2003).
21. Principal Investigator of Subcontract Number 00-216-CSTAT-6686 under Prime Contract Number 46-YABC-7-00001 from the Abt Associates. (Supports a Graduate Student for 16 Months). Project Title “Smoothed Estimates of Bias in Dual System Adjustment Factors”.
22. Principal Investigator of NIH Grant No. RO1 CA85414 with Project Title “Bayesian Neural Networks for Prostate Cancer Studies”. (2001-2004).
23. Principal Investigator of CDC Grant No. MLM200303218 with Project Title “Validation Study of Subdomain Estimation Method”. (2003-2004)
24. Principal Investigator of NSF Grant No. SES-0317589 with Project Title “Some Topics in Small Area Estimation”. (2003-2006).
25. Principal Investigator of NSF Grant No. SES-0631426 with Project Title “Empirical and Hierarchical Bayesian Methods with Applications to Small Area Estimation”. (2007-2010).
26. Co-Principal Investigator of NSF Grant AST-0707203 with Project Title “Search for Earth-Mass Planets: Bayesian Algorithms to Analyze Transit Timing Observations”. (2008-2011).
27. Principal Investigator of NSA Grant Number MSPF-07G-097 with Project Title “Topics in Bayesian Analysis, Empirical Likelihood and Decision Theory”. (2008-2009).
28. Principal Investigator of NSF Grant Number DMS-1007494 entitled “Case-Control Studies, New Directions and Applications”. (Current, 2010-2013).
29. Principal Investigator of NSF Grant Number SES-1026165 entitled “Bayesian Empirical Likelihood and Penalized Splines for Small Area Estimation”. (Current, 2010-2013).
30. Principal Investigator of USDA award entitled “Developing Small Area Models for Improved County-Level Estimation of Agricultural Cash Rent”. (Current, 2010-2012).

## **Committee Service:**

### Iowa State University:

1. Member, Graduate Committee: 1974-77; 1978-81.

2. Member, Ph.D. Preliminary Examination Committee: 1974-77; 1979-80.
3. Chairman, Examination Committee for Non-Thesis M.S.: 1978-79.
4. Member, Library Committee: 1975-77.
5. Member, Seminar Committee: 1979-80.
6. Chairman, Ph.D. Preliminary Examination Committee: 1980-81.
7. Chairman, Graduate Committee: 1981-82.
8. Member, Curriculum Committee: 1981-82.
9. Member, Honors and Awards Committee: 1981-82

University of Florida:

Member, University Senate: 1983-85, 1999-2001, 2007-2009.

Member, DSR Research Proposal Review Committee: 1988-89, 1991-92.

Member, College of Liberal Arts and Sciences Promotion and Tenure Committee: 1994-97.

Member, College of Liberal Arts and Sciences Research Proposal Evaluation Committee: 1997.

Member, Theil Lecture Committee: 1999.

Member, College of Liberal Arts and Sciences STEP Plan Committee (2000).

Member, College of Liberal Arts and Sciences STEP Plan Committee (2002).

Member, Faculty Compensation Committee, (2005).

Member, Math. Sciences Committee, (2006-).

Member, College of Medicine, Biostatistics Search Committee (2005-2007).

Member, Academic Personnel Board (2007).

Department of Statistics, University of Florida:

1. Member, Curriculum Committee: 1983-84, 1990-93.
2. Member, Search and Screen Committee: 1983-84, 1996-1997, 2004-05.
3. Chair, Search Committee for Department Chairman: 1988-89.

4. Chair, Search and Screen Committee: 1992-93.
5. Member, Search Committee for Department Chairman: 1999-2000.
6. Member, Departmental Advisory Committee: 1984-88, 1989-90.
7. Member, Graduate Student Selection Committee: 1986-87, 2003-05.
8. Member, Masters Comprehensive Examination Committee: 1988-93.
9. Member, Ad hoc committee on Advanced Linear Models: 1991-92.
10. Member, Graduate Program Committee: 1994- 2000.
11. Member, Departmental PEP Committee, 1998.
12. Member, Search Committee: 1999-2000.
13. Member, Departmental STEP Plan Committee (2000).
14. Chair, Search and Screen Committee: 2009-2010.  
     item Chair, Search and Screen Committee: 2011-2012.

Committees Outside the University:

1. Member, Executive Board of the International Society for Bayesian Analysis (1998-1999).
2. Chair, IMS Committee on Fellows (1998).
3. Member, IMS Committee on Fellows (1996-1997).
4. Member, IMS Nominating Committee (1997-1998).
5. Member, IMS Special Invited Lectures Committee (2000-2002).
6. Member, ASA Census Advisory Committee (1996-2001).
7. Member, AMS-MAA-IMS Data Committee (1997-1999).
8. IMS Representative to CBMS (1996).
9. Program Chair, ASA Section on Bayesian Statistical Science (1999).
10. Program Chair Elect, ASA Section on Bayesian Statistical Science (1998).
11. Member, ISBA Council, 1997-1999.
12. Chair Elect, ASA Section on Bayesian Statistical Science (2004).

13. Chair, ASA Section on Bayesian Statistical Science (2005).
14. Past Chair, ASA Section on Bayesian Statistical Science (2006).
15. President Elect, International Indian Statistical Association (2006-2007).
16. President, International Indian Statistical Association (2007-2008).
17. External Advisor, EURAREA Project Committee (2002-2004).
18. Member, ISBA Prize Committee, 2010-2012.
19. Member, Program Committee of the 3rd International Meeting of the ISBA held in Mexico City, September 1995.
20. Member Program Committee of the IMS Eastern Regional Meeting
  - (a) Nashville, TN, 1983
  - (b) Orlando, FL, 1984
  - (c) Atlanta, GA, 1986
21. Organizer of a session on Empirical Bayes Methods in Small Area Estimation. Annual meeting of the American Statistical Association, 1986.
22. Organizer of a session on Applications of Empirical and Hierarchical Bayes Methods in Survey Sampling. Annual meeting of the American Statistical Association, 1988.
23. Organized a session on Time Series Analysis of Small Domain Data. Annual Meeting of the American Statistical Association, 1992.
24. Organized a session on Bayesian Analysis of Time Series Data. Annual Meeting of the American Statistical Association, 1993.
25. Organized a session on Applications of Generalized Linear Models, Annual Meeting of the American Statistical Association, 1995.
26. Organized a session on Bayesian Analysis of Categorical Data at the 3rd International Meeting of the ISBA held in Mexico City, September 1995.
27. Organized a session on “Bayesian Analysis of Item Response Models”. Annual Meeting of the American Statistical Association, 1997.
28. Organized a session on “Analysis of Longitudinal Data from Complex Surveys”. Annual Meeting of the American Statistical Association, 1998.
29. Organized a session on “Bayesian Methods for Longitudinal Data”. Annual ENAR Meeting of the Biometric Society, 1999.

30. Program Committee, Second Workshop on Objective Bayesian Methodology, Valencia, Spain, 1999.
31. Organized an Invited Papers Session on “Objective Bayesian Priors” in Crete, Greece, May 28-June 1, 2000.
32. Organizer of an Invited Papers Session on “Current Trends in Likelihood Inference” in Banff, Canada, July 28, 2002-August 2, 2002.
33. Organizer of an Invited Papers Session on “Bayesian Learning” in ISBA 2004 in Chile, May 24-27, 2004.
34. Organizer of an Invited Papers Session on “Outliers in Finite Population Sampling” in JSM 2004 in Toronto, August 8-12, 2004.
35. Organizer of an Invited Papers Session on “Bayesian Methods in Federal Statistics” in JSM 2005 in Minneapolis, August 7-11, 2005.
36. Organizer of an Invited Papers Session on “Statistics and Machine Learning” in JSM 2005 in Minneapolis, August 7-11, 2005.
37. Member, NIH Special Panel on “Gene-Environment Interaction” in 2007.
38. Organizer of an Invited Papers Session on “High Dimensional Low Sample Size Problems in Statistics” in JSM 2008 in Denver Colorado, August 2-8, 2008.

Invited Lectures Presented at:

1. Department of Statistics, University of Connecticut.
2. Department of Statistics, University of Minnesota.
3. Department of Statistics, North Carolina State University.
4. Department of Statistics, University of Missouri at Columbia.
5. Department of Mathematics, Universite De Montreal.
6. Department of Biostatistics, University of North Carolina.
7. Department of Mathematics, University of Maryland.
8. Department of Mathematics, Indiana University.
9. Institut für Mathematische Stochastik, University of Freiburg, Freiburg, West Germany.
10. Department of Mathematics, University of Heidelberg, Heidelberg, West Germany.

11. Department of Statistics, Purdue University.
12. Department of Statistics, University of Manitoba, Winnipeg, Canada.
13. Department of Statistics, Oklahoma State University, Stillwater, Oklahoma.
14. Department of Statistics, Florida State University.
15. Department of Statistics, Rutgers University.
16. Department of Statistics, Ohio State University.
17. Department of Statistics, University of Kentucky.
18. Department of Statistics, Wright State University.
19. Department of Mathematics and Statistics, Bowling Green State University.
20. Department of Statistics, University De Quebec, Montreal, Canada.
21. Department of Mathematics, University of South Florida.
22. Department of Mathematics and Statistics, Carleton University, Ottawa, Canada.
23. Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario, Canada.
24. Department of Statistics, Pennsylvania State University.
25. Department of Statistics, University of Maryland, Baltimore County.
26. Department of Mathematics, Cornell University.
27. Department of Statistics, University of Georgia.
28. Calcutta University, Calcutta, India.
29. Indian Statistical Institute., Calcutta, India.
30. Presidency College, Calcutta, India.
31. Department of Mathematics and Statistics, Northern Illinois University.
32. Dayton Chapter of the American Statistical Association.
33. Maryland Chapter of the American Statistical Association.
34. Washington Statistical Society.
35. U.S. Bureau of the Census.



36. Bureau of Labor Statistics.
37. Temple University.
38. National Institute of Standards.
39. Department of Mathematics and Statistics, Queen's University, Kingston, Ontario.
40. Department of Mathematical Sciences, Clemson University.
41. Institute of Statistical Science, Academia Sinica, Taipei Taiwan.
42. National Central University, Chung-Li, Taiwan.
43. Department of Statistics, SUNY, Buffalo.
44. Department of Statistics, University of Toronto.
45. Department of Mathematics, University of North Carolina, Charlotte, North Carolina.
46. Department of Biostatistics, University of Michigan.
47. Department of Biostatistics, Harvard University.
48. Department of Statistics, Iowa State University.
49. Department of Biostatistics, University of Minnesota.
50. Louisiana Chapter of the American Statistical Association.
51. Department of Mathematics and Statistics, University of Nebraska.
52. Department of Mathematics, National University, Tainan, Taiwan.
53. Department of Statistics, Federal University of Brazil, Rio de Janeiro.
54. Indian Institute of Management, Calcutta.
55. Department of Mathematics, University of North Florida.
56. Department of Mathematics and Statistics, University of New Mexico, Albuquerque, New Mexico.
57. Department of Statistics, Kyungpook National University, Taegu, Korea.
58. Department of Statistics, National University, Seoul, Korea.
59. Department of Epidemiology and Biostatistics, University of South Florida.

60. Florida Chapter of the American Statistical Association.
61. Department of Statistics, University of British Columbia, Vancouver, Canada.
62. Department of Statistics, Rice University.
63. Department of Biostatistics, M.D. Anderson, Cancer Researcher Center.
64. Department of Mathematics, Sam Houston University, Texas.
65. Texas A & M University, College Station, Texas.
66. Department of Statistics, Harvard University.
67. Department of Biostatistics and Epidemiology, Medical University of South Carolina.
68. Department of Social Statistics, University of Southampton. Southampton, England.
69. Department of Statistics, University of Central Florida.
70. Department of Psychiatry, University of Illinois at Chicago.
71. Department of Statistics, University of Warwick, England.
72. Department of Statistics, University of Arizona.
73. Department of Mathematics, University de Carlos, III, Madrid.
74. Department of Statistics and Probability, Michigan State University.
75. Department of Statistics, Hebrew University of Jerusalem.

**Special Invited Lectures:**

1. “Bayesian Methods in Finite Population Sampling: Theory and Applications”. Principal Lecturer of NSF-CBMS Supported Regional Conference on Mathematics and Statistics at the University of Connecticut, July 10-14, 1994.
2. “Small Area Estimation”. Platinum Jubilee Lecture at the Indian Science Congress held in Indore, India on January 5, 1991.
3. “Bayesian Pitman Closeness”. Keynote Address at a conference on Pitman’s measure of closeness held in San Antonio, Texas on June 15, 1991.
4. Four Lectures on “Bayesian Inference in Finite Population Sampling”. Distinguished Lecture Series, University of Northern Illinois at DeKalb, Illinois, April 21-22, 1994.

5. a) Two Lectures on “Generalized Linear Models for Small Area Estimation”  
 b) Two Lectures on “A Unified Bayesian Analysis of Item Response Models”  
 Workshop on Discrete Data held in Chung Li, Taiwan, June 14-15, 1995.
6. Two Featured Lectures on “A Unified Bayesian Analysis of Item Response Models”. Annual Meeting of the Brazilian Statistical Society, Nov. 30-Dec. 2, 1995.
7. Featured Lecture on “Introduction to Small Area Estimation”. Korean Statistical Society, June 29, 1999.
8. Eight Featured Lectures on 3rd Finnish Sample Survey Symposium on “Small Area Estimation”. Jyvaskyla, Finland, May 15-16, 2000.
9. Plenary Lecture on “Hierarchical Bayesian Neural Networks”. Conference on Statistics in the 21st Century. Orono, Maine, June 30, 2000.
10. Special Invited Lecture on “Likelihood-Based Inference for Ratios of Regression Coefficients in Linear Models”. 4th International Conference of IISA, Dekalb, Illinois, June 13-16, 2002.
11. B. V. Sukhatme Memorial Lecture at the Iowa State University on “Finite Population Sampling, Measurement Error Models and Empirical and Hierarchical Bayes Estimation”. November 3, 2003.
12. S. N. Roy Memorial Lecture on “Likelihood Inference for Ratios of Regression Coefficients in Linear Models” in the 5th International Triennial Calcutta Symposium, December 28-31, 2003.
13. D. Basu Memorial Lecture on “Ancillary Statistics: a Personalistic Review” organized by “Friends of ISI” in Toronto, Canada on August 8, 2004.
14. Diamond Jubilee Lecture at the Calcutta University on “Modeling Association among Multivariate Exposures in Matched Case-Control Studies”, December 26, 2004.
15. Keynote Speaker at the Workshop on Statistics and Matrices on “Ancillary Statistics: a Review” organized by the University of Windsor, June 9-10, 2005.
16. Plenary Lecture on “Influence Functions and Robust Bayes and Empirical Bayes Small Area Estimation” organized by the Forum for Interdisciplinary Mathematics at Tomar, Portugal on September 2, 2006.
17. Keynote Address at the Sixth Triennial Symposium of the Calcutta University on “Stein Estimation and Prediction: a Synthesis” on December 29, 2006.

18. Plenary Lecture on “Stein Estimation and Prediction: a Synthesis” organized by the Forum for Interdisciplinary Mathematics at Shanghai, China on May 20, 2007.
19. Plenary Lecture on “Ancillary Statistics: A Review”. International Conference on Probability and Statistics in Kuala Lumpur, Malaysia on December 14, 2007.
20. Plenary Lecture on “Ancillary Statistics: A Review”. International Conference on Probability and Statistics in Hyderabad, India on December 17, 2007.
21. Special Invited Lecture on “Influence Functions and Robust Bayes and Empirical Bayes Small Area Estimation”. Indian Statistical Institute, Kolkata, India on December 28, 2007.
22. Special Invited Lecture on “Ancillary Statistics: A Review”. Indian Statistical Institute, Kolkata, India on January 7, 2008.
23. Plenary Lecture on “Gene-Expression Based Glioma Classification using Bayesian Vector Machines”. Forum for Interdisciplinary Mathematics, May 16-18, 2008.
24. Plenary Lecture on “Bayesian Benchmarking for Small Area Estimation”. Conference Organized by Economic University of Katowice, Poland, September, 2008.
25. “Objective Priors: a Selective Review”. Geisser Memorial Lecture, University of Minnesota, October 1, 2008.
26. Special Invited Lecture on “Small Area Estimation: A Bayesian View”. Rhine-River Conference, Germany, June 22-23, 2009.
27. Plenary Lecture on “Benchmarked Small Area Estimators”. 3rd International Conference on Small Area Estimation. Elche, Spain, June 29-July 1, 2009.
28. Plenary Lecture on “Benchmarked Small Area Estimators”. Conference Organized by Economic University of Katowice, Poland, September, 2009.
29. Special Invited Lecture on “Benchmarked Small Area Estimators”. IISA World Meeting, Raleigh, North Carolina. April 21-24, 2011.
30. Plenary Lecture on “Bayesian Penalized Splines for Small Area Estimation” in Small Area Estimation 2011 Conference in Trier, Germany, August 11-13, 2011.
31. Plenary Lecture on “Bayesian Penalized Splines for Small Area Estimation” in Small Area Estimation 2011 Conference in Katowice, Poland, September 19-20, 2011.

## Invited Papers Presented:

1. "Nonparametric methods in longitudinal studies" - Central Regional Meeting of the American Statistical Association: Iowa City, IA, April 23-25, 1969.
2. "Robust sequential confidence intervals for the Behrens-Fisher problem" - Annual Meeting of the Indian Science Congress: Bangalore, India, January, 1971.
3. "Admissibility in finite problems with a sampling example" - Meeting of the Institute of Mathematical Statistics: New Delhi, India, December 16-18, 1977.
4. "Berry Esseen theorems for U-statistics in the non iid case" - International Conference on Nonparameteric Statistical Inference: Budapest, Hungary, June 23-28, 1980.
5. "Choosing between experiments: applications in finite population sampling" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Nashville, TN, March 20-23, 1983.
6. "Simultaneous estimation of parameters under Stein's loss" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Orlando, FL, March 11-14, 1984.
7. "Two stage James-Stein estimators" - Western Regional Meeting of the Institute of Mathematical Statistics: Logan, UT, June 18-20, 1984.
8. "On admissibility and uniform admissibility in finite population sampling" - Conference on the occasion of the 70th Birthday of Professor V. M. Joshi: London, Ontario, Canada, May 27-31, 1985.
9. "Sequential shrinkage estimation" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Stony Brook, NY, June 12-14, 1985.
10. "Robust Bayes and empirical Bayes analysis in finite population sampling" - Annual Conference of the Southern Regional Education Board: Boone, NC, June 17-21, 1985.
11. "Sequential shrinkage estimation" - Biannual Meeting of the Mathematical Institute: Oberwolfach, West Germany, December 16-20, 1985.
12. "Robust Bayes and empirical Bayes analysis in finite population sampling" - 15th Anniversary Meeting of the NBER-NSF Seminar on Bayesian Inference in Econometrics: Mexico City, Mexico, January 16-18, 1986.
13. "Bayes and empirical Bayes analysis in multistage sampling" - 4th International Conference on Statistical Decision Theory and Related Topics: Purdue University, West Lafayette, IN, June 16-20, 1986.

14. Invited Discussant of Modeling and Randomization in Survey Sampling Estimation - Annual Meeting of the American Statistical Association: Chicago, IL, August 18-21, 1986.
15. "A.P.O. rules in hierarchical and empirical Bayes models" - Annual Meeting of the Institute of Mathematical Statistics: San Francisco, CA, August 17-20, 1987.
16. "Nonparametric empirical Bayes estimation of the distribution function and the mean" Statistics Day: Ottawa, Canada, April 22, 1988.
17. "A hierarchical Bayes approach to small area estimation" - Annual Meeting of Institute of Mathematical Statistics: Fort Collins, CO, August 15-18, 1988.
18. "Statistical inference: a conditional approach?" - SIGMA-XI Lecture: University of Florida, February 10, 1988.
19. "A hierarchical Bayes approach to small area estimation with auxiliary information" - Joint Indo. U.S. Workshop on Bayesian Inference in Statistics and Econometrics: Bangalore, India, December 19-23, 1988.
20. "Empirical and hierarchical Bayes estimation of the response function" - R. C. Bose Memorial Conference: New Delhi, India, December 27-30, 1988.
21. "Median unbiasedness and Pitman closeness" - Calcutta Statistical Association Day: Calcutta, India, December 17, 1988.
22. Invited Discussant in the Workshop of Bayesian Robustness. Purdue University, West Lafayette, Indiana, March 10-11, 1989.
23. "Bayesian prediction in mixed linear models: Applications to small area estimation". Seminar on Bayesian Inference in Statistics and Econometrics: University of Missouri, Columbia, MO, April 28-29, 1989.
24. "Empirical Bayes minimaxity (-minimaxity) of a class of shrinkage estimators" - National Seminar on Statistical Inference: Poona, India, June 19-22, 1989.
25. "Sequential shrinkage estimation in multivariate regression models" - Annual Meeting of the Institute of Mathematical Statistics: Washington, DC, August 6-10, 1989.
26. "Bayesian Prediction in Linear Models: Applications to small area estimation". Meeting of the Maryland Chapter of the American Statistical Association. May 24, 1990.
27. "Bayesian Prediction in Linear Models: Applications to Small Area Estimation". Washington Statistical Society. July 10, 1990.

28. "Constrained Bayes estimation with applications" - Brazil - U.S. Workshop on Bayesian Inference in Statistics and Econometrics. Rio De Janeiro, Brazil, July 16-20, 1990.
29. "Bayesian prediction in linear models: Applications to Small Area Estimation". Annual Meeting of the American Statistical Association. Anaheim, California, August 6-9, 1990.
30. "An empirical Bayes approach towards composite estimation of consumer expenditures". Meeting of the Washington Statistical Society. Sept. 6, 1990.
31. "Hierarchical and empirical Bayes estimation of all employee links." Meeting of the Washington Statistical Society, Nov. 8, 1990.
32. "Hierarchical and empirical Bayes multivariate estimation". Workshop on Linear Models held in ISI, Calcutta during December 27-29, 1990.
33. "Hierarchical and Empirical multivariate Bayes analysis in small area estimation". Annual Research Conference of the Census Bureau during March 18-20, 1991.
34. "Bayesian Pitman Closeness." Seminar on Bayesian Inference in Statistics and Econometrics. University of Minnesota, St. Paul, Minnesota, April 5-6, 1991.
35. Invited Discussant in the 4th Valencia International Meeting on Bayesian Statistics, Pensicola, Spain, April 15-20, 1991.
36. "Empirical Bayes Minimax estimation of matrix normal means". International Conference on Nonparametric Statistics and Related Topics held in Carleton University, Ottawa, May 5-8, 1991.
37. "Nonparametric Empirical Bayes estimation of  $P(X \leq Y)$ ". International Conference on Order Statistics and Nonparametric Inference. Alexandria, Egypt, September 18-20, 1991.
38. "Estimation of Matrix Normal Means: An empirical Bayes view". Oberwolfach, Germany. October 28-November 1, 1991.
39. "Hierarchical and empirical Bayes methods for adjustment of census undercount:" The 1988 Missouri dress rehearsal data. A workshop on Statistical Issues in Public Policy Analysis held at Carleton University; May 7-8, 1992.
40. "On some Bayesian solutions of the Neyman-Scott problem". Presented at the 5th Purdue Conference on Statistical Decision Theory and Related Topics; June 14-19, 1992.

41. "Estimation of median income of four-person families: a Bayesian time series approach". Workshop of the Americas Seminar on Bayesian Statistics and Econometrics. Caracas, Venezuela, December 9-12, 1992.
42. "On a Bayesian solution of the Neyman-Scott Problem." Mahalanobis Centenary Conference, ISI, Delhi, December 18-22, 1992.
43. "Small Area Estimation; an Introduction." Northwest Ohio Chapter of the American Statistical Association, October 14, 1993.
44. "Estimation of the Median income of four person families: a Bayesian time series approach". Annual Research Conference of the Census Bureau; March 22-24, 1993.
45. "Many nuisance parameters, inconsistent MLE's and hierarchical Bayes solutions". International Symposium on Exploration of Informational Aspects of Bayesian Statistics; in Yamanashi, Japan, December 1993, 1993.
46. "A.P.O. Rules for Linear Bayes Estimation." Workshop on Sequential Analysis held in Chaptel Hill, North Carolina, June, 1994.
47. "Probability Matching Priors for Linear Calibration." International Conference on Forecasting, Prediction and Modeling in Statistics and Econometrics held in Hsinchu, Taiwan, December 12-14, 1994.
48. "Small Area Estimation for Discrete Data: A Bayesian Perspective". Conference organized by the Center for Disease Control, Atlanta, Georgia, January 29, 1995.
49. "New Directions for Estimation of Variance Components" A Workshop on Linear Models at the University of South Alabama, Mobile Alabama, March 17, 1995.
50. "Linear Models for Small Area Estimation". A Workshop on Linear Models of the University of South Alabama, Mobile Alabama, March 17, 1995.
51. "Hierarchical Bayes Estimation of Cancer Mortality rates". Annual Meeting of the ASA held in Orlando, August 13-17, 1995.
52. "A Unified Bayesian Analysis of Item Response Models. Annual Meeting of ISBA held in Oaxaca, Mexico, September 29-30, 1995.
53. "Estimation of median income of four-person families: a Bayesian time series approach". 34th Annual Meeting of Bayesian Research Statisticians. Los Angeles, California, February 16, 1996.



54. "Nonparametric Sequential Bayes Estimation of the Distribution Function." 2nd International Conference of Nonlinear Analysts held in Athens, Greece, July 10-July 16, 1996.
55. "Noninformative Priors for Dispersion Models" - Tenth Anniversary Conference of the Division of Statistics, University of Northern Illinois, DeKalb, Illinois, September 27-29, 1996.
56. "Noninformative Priors for Dispersion Models" - 50th Anniversary Conference of the Department of Statistics, UNC, Chapel Hill, October 17-19, 1996.
57. "Noninformative Priors for Dispersion Models" - Workshop on Default Bayesian Analysis held at the Purdue University, November 1-3, 1996.
58. "Hierarchical Bayes GLM's for the Analysis of Spatial Data: an Application to Disease Mapping" - Eugene Lukacs Memorial Conference held in Bowling Green, Ohio, April 25-27, 1997.
59. "Recent Developments on Probability Matching Priors" - An International Conference on Nonparametric Statistics and Related Topics held in Carleton University, Ottawa, Canada, May 4-6, 1997.
60. "Bayesian Analysis of Item Response Models" - ASA Annual Meeting at Anaheim, California, August 10-14, 1997.
61. "Small Area Estimation : a Bayesian Perspective" - ASA Annual Meeting at Dallas, Texas, August 9-13, 1998.
62. "Recent developments on Probability Matching Priors"- 4th Iranian Statistical Society Meeting at Teheran, August 23-25, 1998.
63. "Hierarchical Bayesian Analysis of Binary Matched Pairs Data"-4th Iranian Statistical Society Meeting at Teheran, August 23-25, 1998.
64. "Noninformative Priors for Item Reponse Models"-2nd Workshop on Objective Bayesian Methodology, Valencia, Spain, June 10-13, 1999.
65. "Hierarchical Bayesian Neural Networks: An Application to Prostate Cancer Study"- Joint Statistical Meeting, Baltimore, Maryland, August 8-12, 1999.
66. "Recent Advances in Empirical Bayes Methods for Small Area Estimation" - Satellite Conference on Small Area Estimation, Riga, Latvia, August 18-19, 1999.
67. "Statistical Methods for Case-Control Studies"- Florida Chapter of the ASA, February 18, 2000.

68. "Small Area estimation: A Bayesian Overview"-Sixth Annual Meeting of the International Society for Bayesian Analysis. Crete, Greece, May 29-June 1, 2000.
69. "The Behrens-Fisher Problem Revisited: A Bayes-Frequentist Synthesis", Summer Research Conference of the American Mathematical Society in Mount Holyoke College, South Hadley, Massachusetts, July 8-13, 2000.
70. "Bayesian Inference for Case-Control Studies"-Joint Statistical Meeting, Indianapolis, Indiana, August 13-17, 2000.
71. "Likelihood and Default Bayesian Inference for Ratios of Regression Coefficients in Linear Models"-3rd Workshop on Objective Bayesian Methodology, Ixtapa, Mexico, September 20-23, 2000.
72. "Weighted Likelihoods for Small Area Estimation"-An International Conference on Small Area Estimation, Potomac, Maryland, April 12-15, 2001.
73. "Bayesian Inference for matched Case-Control Studies"- Florida Chapter of the ASA, February 22-23, 2002.
74. "Asymptotically Pointwise Optimal Rules for Case-Control Studies"- Conference on Designs for Generalized Linear Models, NIST, Gaithersburg, Maryland, April 18-20, 2002.
75. "Objective Bayesian Inference for Ratios of Regression Coefficients in Linear Models" . International Conference in Statistics. Honolulu, Hawaii, June 6-9, 2002.
76. "Small Area Estimation Based on NEF-QVF Models and Survey Weights". International Conference on Recent Advances in Survey Sampling. Ottawa, Canada. July-10-14, 2002.
77. "Objective Priors for Bayesian Bioassay"-Joint Statistical Meeting, 2002, New York, August 11-15, 2002.
78. "Hierarchical Bayesian Models for Small Domain Estimation". National Center for Health Statistics, Washington, D.C., March 22, 2003.
79. "Semiparametric Bayesian Analysis for Matched Case-Control Studies with Missing Exposure", Aussois, France, June 18, 2003.
80. "Semiparametric Bayesian Analysis for Matched Case-Control Studies with Missing Exposure", Joint Statistical Meeting, 2003, San Francisco, August 3-7, 2003.

81. "Finite Population Sampling, Measurement Error Models, Hierarchical and Empirical Bayes Estimation". International Conference on Sampling Methodology and Official Statistics, Raichalk, India, January 2-3, 2004.
82. "Small Area Estimation Based on NEF-QVF Models and Survey Weights". Meeting of the Florida Chapter of the ASA, February 13-14, 2004.
83. "Small Domain Estimates of Health Insurance Coverage of Minority Subpopulations", National Center for Health Statistics, Washington, D.C., March 10, 2004.
84. "Influence Functions and Robust Small Area Estimation". Joint Statistical Meeting, Toronto, Canada, August 12, 2004.
85. "Bivariate Bayesian Neural Networks: an Application to Prostate Cancer Study", International Conference on the Future of Statistics in Hyderabad, India, December 29, 2004-January 1, 2005.
86. "Bayesian Machine Learning", International Conference on Bayesian Statistics in Varanasi, India, January 6-8, 2005.
87. "Estimation, Prediction and the Stein Phenomenon under Hellinger Loss". Objective Bayesian Inference 5, Bramson, Missouri, June 5-8, 2005.
88. "Ancillary Statistics: a Review". International Conference on Matrices and Statistics. University of Southern Ontario. June 9-10, 2005.
89. "Influence Functions and Robust Bayes and Empirical Bayes Small Area Estimation". Conference organized by the Consortium of Federal Statistics, Washington, D.C., June 13, 2005.
90. "Bayesian Neural Networks for Prostate Cancer Study". Joint Statistical Meeting in Minneapolis, August 7, 2005.
91. "Bayesian Neural Networks for Prostate Cancer Study". Meeting of the North Carolina Chapter of the ASA. November 10, 2005.
92. "Modeling Association among Multivariate Exposures in Matched Case-Control Studies". Joint Colloquium of the Department of Statistics and Biostatistics. University of North Carolina, Chapel Hill. November 11, 2005.
93. "Modeling Association among Multivariate Exposures in Matched Case-Control Studies". Workshop organized by the Calcutta Statistical Association. December 22-23, 2005.

94. "Gene Expression Based Glioma Classification using Hierarchical Bayesian Vector Machines". International Statistics Conference. Kuala Lumpur, Malaysia. December 27-31, 2005.
95. "Empirical Bayes Estimation for Additive Hazard Rate Models". Bayesian Non-parametric Conference, Jeju Island, Korea, June 11-14, 2006.
96. "Estimation, Prediction and the Stein Phenomenon under Divergence Loss". S.N. Roy Centenary Conference, Calcutta, India, December 28, 2006.
97. "Gene Expression Based Glioma Classification using Hierarchical Bayesian Vector Machines". IISA Conference, Kerala, India, January 5-8, 2007.
98. "Influence Functions and Robust Bayes and Empirical Bayes Small Area Estimation". P.K. Banerjee Memorial Session organized by the Calcutta University, December 28-29, 2007. Kolkata, India.
99. "Gene Expression Based Glioma Classification using Hierarchical Bayesian Vector Machines". Platinum Jubilee Conference of the Indian Statistical Institute, Kolkata, India, January 1-4, 2008.
100. "Gene Expression Based Glioma Classification using Hierarchical Bayesian Vector Machines". International Conference in Warwick, England, April, 2008.
101. "Objective Priors: A Selective Review". International Indian Statistical Association Meeting held in Storrs, Connecticut, May 22-25, 2008.
102. "Bayesian Benchmarking for Small Area Estimation". International Conference on Survey Sampling. University of Southampton, England, August, 2008.
103. "Bayesian Benchmarking for Small Area Estimation". International Conference in Cairo, Egypt, December, 20-23, 2009.
104. "Divergence Priors". Institute of Mathematical Statistics, Annual Conference. August 8-13, 2010.
105. "Bayesian Benchmarking for Small Area Estimation". International Conference in Chung Li, Taiwan, December 15-16, 2010.
106. "Empirical Likelihood with Application to Small Area Estimation". Annual Meeting of the International Chinese Statistical Association, Guangzhou, China. December 18-21, 2010.
107. "Two-stage Benchmarking for Small Area Estimation". International Conference in Probability and Statistics, Colombo, Sri Lanka, December 28-30, 2011.

## **Tutorials and Short Courses Presented:**

1. A Three Hour Tutorial on “Statistical Methods for Case-Control Studies”: Deming Conference on Applied Statistics, Atlantic City, New Jersey, December 7, 1999.
2. “Bayesian Methods with Applications”: Deming Conference on Applied Statistics, Atlantic City, New Jersey, December 8 and 9, 1999.
3. “Model-Dependent Small Area Estimation: Theory and Practice”. University of Jyvaskala, Finland. May 19-20, 2000.
4. “Applied Bayesian Methods” : Merck Research Laboratories, Somerset, New Jersey, July 17 and 18, 2000.
5. “Small Area Estimation with Applications”: Iranian Statistical Center, Teheran, Iran, July 14-July 18, 2001.
6. “Bayesian Methods in Finite Population Sampling”: Benaras Hindu University, Varanasi, India, January 5, 2005.
7. “Bayesian Methods for Case-Control Studies”: Joint Statistical Meeting, Seattle Washington, August 8, 2007.
8. “Small Area Estimation”: University of Warwick, England. May 29- June 6, 2007.
9. “Bayesian Methods in Finite Population Sampling”: University of Southampton, England. August 27, 2008.
10. A Short Course on “Small Area Estimation”. National University of Singapore. March 12, 2009.
11. A Short Course on “Fundamentals and Applications of Bayesian Analysis”: Novartis, May 18-19, 2011.

## **Contributed Papers Presented:**

1. “On a class of asymptotically optimal nonparametric tests for grouped data” - Central Regional Meeting of the Institute of Mathematical Statistics: Iowa City, IA, April 23-25, 1969.
2. “On a class of rank order tests for regression with partially informed stochastic predictors” - Annual Meeting of the Institute of Mathematical Statistics: New York, August 19-22, 1969.

3. "Sequential confidence interval for the regression coefficient based on Kendall's tau" -Central Regional Meeting of the Institute of Mathematical Statistics: Dallas TX, April 8-10, 1970.
4. "On bounded length sequential confidence intervals based on one-sample rank-order statistics" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Chapel Hill, NC, May 5-7, 1970.
5. "Some nonparametric selection procedures" - Annual Meeting of the Indian Science Congress: Calcutta, India, March, 1972. Contributed Papers Presented-Continued:
6. "Sequential rank tests for regression" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Rochester, NY, May 21-23, 1975.
7. "Admissibility of linear estimators in the one-parameter exponential family" - Annual meeting of the Institute of Mathematical Statistics: Atlanta, GA, August 25-28, 1975.
8. "An admissible estimator of the number of defectives" - Annual Meeting of the Institute of Mathematical Statistics: New Haven, CT, August 18-21, 1976.
9. "On characterizations of the uniform distribution based on identically distributed spacings" - Eastern Regional Meeting of the Institute of Mathematical Statistics: Madison, WI, May 16-18, 1977.
10. "Asymptotically risk efficient nonparametric sequential point estimation" - Annual Meeting of the Institute of Mathematical Statistics: Washington, DC, August 13-16, 1979.
11. "On the robustness of least squares procedures in regression models" - Annual Meeting of the Institute of Mathematical Statistics, Washington, DC, August 13-16, 1979.
12. "Estimates of multiple Poisson means: Bayes and empirical Bayes" - Annual Meeting of the Institute of Mathematical Statistics, Vail, CO, August 17-20, 1981.
13. "Nonparameteric empirical Bayes estimation of certain functionals" - Annual Meeting of the American Statistical Association: Philadelphia, PA, August 15-18, 1984.
14. "Empirical Bayes estimation in finite population sampling" - Centenary Meeting of the International Statistical Institute: Amsterdam, Netherlands, August 12-22, 1985.

15. "Empirical Bayes subset estimation in regression models" - 3rd Valencia Conference: Altea, Spain, June 2-6, 1987.
16. "Bayesian Prediction in Mixed Linear Models: Applications to Small Area Estimation" Meeting of the International Statistical Institute in Paris, France. August 29-September 6, 1989.
17. "Hierarchical and empirical Bayes estimation of all employee links". ASA Annual Meeting at Boston, August 10-13, 1992.
18. "Herarchical Bayesian Analysis of Matched Pairs Data". ASA Annual Meeting at Anaheim, California, August 10-14, 1997.

### **Book (Co-Authored):**

1. "Sequential Estimation" (with N. Mukhopadhyay and P.K. Sen), (1997). John Wiley and Sons, New York.

### **Monograph (Co-Authored):**

1. "Bayesian Methods for Finite Population Sampling" (with G. Meeden), (1997). Chapman and Hall, New York.

### **Book (Co-Edited):**

1. "Current Issues in Statistical Inference: Essays in Honor of D. Basu". Co-Edited with P.K. Pathak. (1992). IMS Lectures Notes Monograph Series Number 17.

### **Publications:**

1. "On the Almost Sure Convergence of Von Mises' Differentiable Statistical Functions" (with P.K. Sen), (1971), *Cal. Statistical Assoc. Bulletin*, 19, 41-44.
2. "On Bounded Length Sequential Confidence Intervals Based on One-Sample Rank-Order Statistics" (with P.K. Sen), (1971), *Ann. Math. Statist.*, 42, 189-203.
3. "On a Class of Rank Order Tests for Regression with Partially Informed Stochastic Predictors" (with P.K. Sen), (1971), *Ann. Math. Statist.*, 42, 650-661.
4. "On the Wald Optimality of Rank-Order Tests for Paired Comparisons" (1971), *Ann. Math. Statist.*, 42, 1970-1976.
5. "Sequential Confidence Interval for the Regression Coefficient Based on Kendall's Tau" (with P.K. Sen), (1971), *Calcutta Statist. Assoc. Bulletin*, 20, 24-36.

6. "Robust Sequential Confidence Intervals for the Behrens-Fisher Problem" (1971), *Cal. Statist. Assoc. Bulletin*, 20, 61-66.
7. "On Bounded Length Confidence Interval for the Regression Coefficient Based on a Class of Rank Statistics" (with P.K. Sen), (1972), *Sankhya, A*, 34, 33-52.
8. "On Strong Convergence of Regression Rank Statistics" (with P.K. Sen), (1972), *Sankhya, A*, 34, 349-356.
9. "On the Representation of Linear Functions of Order Statistics" (1972), *Sankhya, A*, 34, 349-356.
10. "Asymptotic Properties of Linear Functions of Order Statistics for m-Dependent Random Variables" (1972), *Cal. Statist. Assoc. Bulletin*, 21, 181-192.
11. "On a Class of Asymptotically Optimal Nonparametric Tests for Grouped Data I" (1973), *Ann. Inst. Statist. Math.*, 25, 91-108.
12. "On a Class of Asymptotically Optimal Nonparametric Tests for Grouped Data II" (1973), *Ann. Inst. Statist. Math.*, 25, 109-122.
13. "On Some Sequential Simultaneous Confidence Interval Procedures" (with P.K. Sen), (1973), *Ann. Inst. Statist. Math.*, 25, 123-133.
14. "Nonparametric Methods in Longitudinal Studies" (with J.E. Grizzle and P.K. Sen), (1973), *J. Amer. Statist. Assoc.*, 68, 29-36.
15. "A Law of Iterated Logarithm for One Sample Rank Order Statistics and an Application" (with P.K. Sen), (1973), *Ann. Statist.*, 1, 568-576.
16. "Nonparametric Selection Procedures for Symmetric Location Parameter Populations" (1973), *Ann. Statist.*, 1, 773-779.
17. "A Chernoff-Savage Representation of Rank Order Statistics for Stationary-mixing processes" (with P.K. Sen), (1973), *Sankhya A*, 35, 153-172.
18. "Asymptotic Properties of Some Sequential Nonparametric Estimators in Some Multivariate Models" (with P.K. Sen), (1973), *Proc. 3rd Int. Symp. on Multivariate Analysis*, 299-316.
19. "Sequential Rank Tests for Location" (with P.K. Sen), (1974), *Ann. Statist.*, 2, 540-552.
20. "Some Invariance Principles for Rank Statistics for Testing Independence" (with P.K. Sen), (1974), *Z. Wahrscheinlichkeitstheorie und Verw. Geb.*, 29, 93-108.
21. "Probabilities of Moderate Deviations Under m-Dependence", (1974), *Canadian Journal of Statistics*, 2, 157-168.



22. "On Some Properties of a Class of Spearman Rank Statistics with Applications" (1975), *Ann. Inst. Statist. Math.*, 27, 57-68.
23. "Admissibility of Minimality of Some Maximum Likelihood Estimators When the Parameter Space Is Restricted to Integers", (1975), *J. Royal Stat. Soc., B*, 37, 264-271.
24. "Almost Sure Convergence of Sums of Maxima and Minima of Positive Random Variables" (with G. Jogesh Babu and N. Mukhopadhyay), (1975), *Z. Wahrscheinlichkeitstheorie und Verw. Geb.*, 33, 49-54.
25. "Some Properties of Multivariate Distributions with PDF's Constant on Ellipsoids" (with E. Pollak), (1975), *Comm. Statist.*, 4, 1157-1160.
26. "Probabilities of Moderate Deviations for Non-Stationary m-Dependent Processes with Unbounded m". (1975), *Cal. Statist. Assoc. Bull.*, 24, 1-11.
27. "Sequential Point Estimation of the Parameter of a Rectangular Distribution" (with N. Mukhopadhyay), (1975), *Calcutta Statist. Assoc. Bull.*, 24, 117-122.
28. "How Many Tosses of the Coin?" (with G. Meeden), (1975), *Sankhya A*, 37, 523-529.
29. "Asymptotic Theory of Sequential Tests Based on Linear Functions of Order Statistics" (with P.K. Sen), (1976), *Essays in Probability and Statistics in Honor of J. Ogawa*, 485-499.
30. "Multivariate Sequential Point Estimation" (with B.K. Sinha and N. Mukhopadhyay), (1976), *J. Multivariate Analysis*, 6, 281-294.
31. "A Random Functional Central Limit Theorem for Martingales" (1976), *Acta Mathematica, Acad. Sci. Hung.*, 27, 301-306.
32. "A Characterization of Geometric Distributions through Distributional Properties of Order Statistics" (with B. Arnold), (1976), *Scand. Actuarial Journal*, 232-234.
33. "Nonparametric Minimax Estimation of the Mean" (with G. Meeden), (1976), *Cal. Statist. Assoc. Bulletin*, 25, 169-173.
34. "On Two Fundamental Problems of Sequential Estimation" (with Nitis Mukhopadhyay), (1976), *Sankhya, B.*, 38, 203-218.
35. "Sequential Rank Tests for Regression" (with P.K. Sen), (1977), *Sankhya, A*, 39, 45-62.

36. "On the Nonattainability of Chebyshev Bounds" (with G. Meeden), (1977), *American Statistician*, 31, 35-36.
37. "Probability of Moderate Deviations for Stationary - Mixing Processes" (with G. Jogesh Babu), (1977), *Ann. Prob.*, 5, 222-234.
38. "Admissibility of Linear Estimators in the One-Parameter Exponential Family" (with G. Meeden), (1977), *Ann. Statist.*, 5, 772-778.
39. "Strong Convergence of Linear Rank Statistics for Mixing Processes" (with D. Sotres), (1977), *Sankhya, B*, 39, 111.
40. "On Rates of Convergence to Normality for -Mixing Processes" (with G. J. Babu and K. Singh), (1978), *Sankhya, A*, 40, 278-293.
41. "On Some Nonuniform Rates of Convergence to Normality" (with R. Dasgupta), (1978), *Sankhya, A*, 40, 347-368.
42. "Linear Models Analysis of Small Samples of Categorized Ordinal Response Data" (with N.R. Mohberg and J.E. Grizzle), (1978), *J. Stat. Comp. and Simulation*, 7, 237-251.
43. "Admissibility of the MLE of the Normal Integer Mean" (with G. Meeden), (1978), *Sankhya, B*, 40, 1-10.
44. "On Bahadur's Representation of Sample Quantiles for Nonstationary Mixing Processes" (with D.A. Sotres), (1978), *Cal. Statist. Assoc. Bull.*, 27, 23-36.
45. "On Characterizations of the Uniform Distribution Based on Identically Distributed Spacings" (with J. S. Huang and B. Arnold), (1979), *Sankhya, B*, 41, 109-115.
46. "Sequential Point Estimation of the Mean When the Distribution is Unspecified" (with N. Mukhopadhyay), (1979), *Comm. Statist.*, A8, 637-652.
47. "Asymptotic properties of linear functions or order statistics for nonstationary mixing processes" (with D.A. Sotres), (1979), *Cal. Statist. Assoc. Bull.*, 28, 19-36.
48. "Sequential point estimation of the difference of two normal means" (with N. Mukhopadhyay), (1980), *Ann. Statist.*, 8, 221-225.
49. "On the robustness of least squares procedures in multivariate regression models" (with B.K. Sinha), (1980), *J. Mult. Anal.*, 10, 332-342.
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### **Papers Accepted for Publication:**

1. “Small Area Shrinkage Estimation” (with G. Datta). *Statistical Science*, in press.
2. ‘Bayesian Nonlinear Regression for Large  $p$  Small  $n$  Problems” (with B. Mallick and S. Chakraborty). *Journal of Multivariate Analysis*, in press.
3. “A Bayesian Semiparametric Approach for Incorporating Longitudinal Information in Exposure History for Inference in Case-Control Studies” (with D. Bhadra, M. J. Daniels, S. Kim and B. Mukherjee). *Biometrics*, in press.
4. “On the Equivalence of Posterior Inference Based on Retrospective and Prospective Likelihoods” (with J. Song, J. Forster, R. Mitra and B. Mukherjee). *Statistics in Medicine*, in press.
5. “Estimation of Small Area Event Rates and of the Associated Standard Errors” (with G. Papageorgiou). *Journal of Statistical Planning and Inference*, in press.

### **Papers Under Consideration of Publication**

1. “Estimation of Median Household Income for Small Areas: a Bayesian Semiparametric Approach” (with D. Bhadra and D. Kim). Submitted.
2. “Asymptotic Partial Efficiency of Maximum Likelihood Estimators” (with J. Song). Submitted.

3. “Two Stage Bayesian Benchmarking as Applied to Small Area Estimation” (with R. Steorts). Submitted.
4. “Benchmarking Small Area Estimators” (with W.R. Bell and G.S. Datta). Submitted.
5. “Empirical Bayes Estimation in Random Effects Models with Covariates Subject to Measurement Error” (with M. Guo). Submitted.
6. “Mean Squared Errors of James-Stein Estimators for Measurement Error Models” (with M. Guo). Submitted.
7. “Estimation of Mean Squared Error of Empirical Bayes Estimators” (with R. Steorts). Submitted.
8. “Hierarchical Bayes Estimation for Bivariate Binary Data with Applications to Small Area Estimation” (with A. Roy, M-H. Chen, M. Katzoff and V. L. Parsons). Submitted.

### **Book Review:**

1. Review of “Nonparametric Techniques in Statistical Inference”, edited by M. L. Puri (1972), *Sankhya A*, 34, 304-307.
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