# CURRICULUM VITAE
of
Yogendra Prasad Chaubey

## 1. PERSONAL


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**Date of Birth:** March 13, 1951

**Nationality:** Canadian

## 2. EDUCATION AND DEGREES

- University of Rochester, Rochester, New York 1972-1977
  M.A. in Statistics, May 1974
  Ph.D. in Statistics, May 1977
  Thesis Title: "The Principle of MINQUE: Modifications, Extensions and Applications"
- Indian Statistical Institute, Calcutta, India 1970-72 M.Stat. (Master of Statistics with specialization in Statistical Qualiity Control and Operations Research), July 1972
- Banaras Hindu University, Varanasi, India 1968-70
  B.Sc. (with Physics, Mathematics and Statistics as Electives) June 1970

## 3. PROFESSIONAL EXPERIENCE

- Concordia University, Montreal, Quebec CANADA
  Professor, 1990 - ...
  Associate Professor, 1981 - 1990
  Assistant Professor, 1979 - 1981

- Indian Statistical Institute, Division of Theoretical Statistics, Calcutta, INDIA
  Visiting Scientist, 1985-86

– Dalhousie University, Department of Mathematics, Statistics and Computer Science, Halifax, Nova Scotia CANADA
Assistant Professor, 1977-1979

– Carleton University, Department of Mathematics and Statistics, Ottawa, Ontario CANADA
Research Associate and Instructor, 1976-77

– University of Rochester, Rochester, New York USA Department of Statistics:
Visiting Assistant Professor, June 1982
Teaching Assistant and Fellow, 1972-1975
Department of Biostatistics:
Technical Associate, 1975-196

## 4. AWARDS AND DISTINCTIONS

(i) U.P. Govt., INDIA, National Scholarship for Securing Distinction in High School, 1966-70

(ii) Indian Statistical Institute, Prize for Distinction in M. Stat., 1970-72

(iii) University of Rochester, Fellowship, 1972-75

(iv) Research Affiliate, CRM, University of Montreal, 1996-97

(v) Chapter Service Recognition Award, American Statistical Association, 2003

(vi) Elected Member, International Statistical Institute, 2005

(vii) Provost's Circle of Distinction, Concordia University, 2009

(viii) P.Stat., Awarded by Statistical Society of Canada, 2014

(ix) Life Time Achievement Award, Awarded by Forum for Interdisciplinary Mathematics, 2016

## 5. LIST OF PUBLICATIONS

### (A) Refereed Journal Publications:

1. Chaubey, Y.P., Dewan, I. and Li, J. (2024). On some non parametric estimators of the quantile density function for a stationary associated process. *Communications in Statistics-Theory and Methods* **53 (15)**, 5553-5573.
2. YP Chaubey, Y.P. and Zhang, Q. (2024). Contamination severity index: An analysis of Bangladesh groundwater arsenic. *Environmetrics* **35 (5)**, env. 2850.
3. Djimdou, M.L., Chaubey, Y.P. and Sen, A. (2024). Distribution of the Joint Survival Function of an Archimedean Copula. *Calcutta Statistical Association Bulletin*, DOI:10.1177/00080683241246438

4. Q Zhang, AM Schmidt, YP Chaubey (2024). Modelling left-censored skewed spatial processes: The case of arsenic drinking water contamination. *Spatial Statistics*, **59**, 100816.DOI:10.1016/j.spasta.2024.100816

5. Chaubey, Y.P., Ghoudi, K. and Laïb, N. (2024). Generalised local polynomial estimators of smooth functionals of a distribution function with nonnegative support. *Journal of Nonparametric Statistics*, 1-37.

6. Chaubey, Y.P. and Karmaker, S.C. (2021). On Some Circular Distributions Induced by Inverse Stereographic Projection. *Sankhya B*, **83:2** 319-341. https://doi.org/10.1007/s13571-019-00201-1

7. Chaubey, Yogendra P. and Vu, N.L. (2021). On the Estimation of Entropy for Non-negative Data. *Journal of Statistical Theory and Practice*, **15:2** 1–19.

8. Chaubey, Yogendra P., Dewan, I. and Li, J. (2021). On Some Smooth Estimators of the Quantile Function for a Stationary Associated Process. *Sankhya B*, **83:1** 114–139.

9. Chaubey, Yogendra P. and Vu, N.L. (2020). A Numerical Study of Entropy and Residual Entropy Estimators Based on Smooth Density Estimators for Non-negative Random Variables. *Journal of Statistical Research*, **54:2** 99–121 https://doi.org/10.47302/jsr.2020540201

10. Ejlali, N., Pezeshk, H., Chaubey, Y.P. and Sadeghi, M., Ebrahimi, A., and Nowzari-Dalini, A. (2020). Parrondo's Paradox For Games With Three Players And Its Potential Application In Combination Therapy For Type II Diabetes. *Physica A*, **556:12407** 1-10.

11. Chaubey, Y.P. and Karmaker, S.C. (2019). On Some Circular Distributions Induced by Inverse Stereographic Projection. **Sankhya** B **81**, 1–23. https://doi.org/10.1007/s13571-019-00201-1

12. Shirazi, E., Chaubey, Y.P.(2019). Non-negative Density Estimation via Wavelet Block Thresholding for Biased Data. *Journal of Statistical Theory and Practice***13:1**, 1–21. https://doi.org/10.1007/s42519-018-0019-2

13. Chaubey, Yogendra P. (2018). Adjustment for Unit Non-response in Survey Sampling: A Selected Review. *Statistics and Applications*, **16:1**, 57-70.

14. Chaubey, Y.P., Khurana, Mansi and Chandra, S. (2018). An Investigation into Properties of Jackknifed and Bootstrapped Liu Estimator. *Far East Journal of Mathematical Sciences*, **106:1**, 159-170.

15. Chaubey, Y.P., Khurana, Mansi and Chandra, S. (2018). Confidence Intervals based on Resampling Methods Using Ridge Estimator in Linear Regression Models. *New Trends in Mathematical Sciences* **2018**, 111-121.

16. Chaubey, Y.P. (2018). Smooth Kernel Estimation of a Circular Density Function: A Connection to Orthogonal Polynomials on the Unit Circle. *Journal of Probability and Statistics*, **2018**, Article ID 5372803
`https://doi.org/10.1155/2018/5372803`
17. Chaubey, Y.P., Singh, M. & Sen, D. (2017). Symmetrizing and Variance Stabilizing Transformations of Sample Coefficient of Variation from Inverse Gaussian Distribution. *Sankhya B*, **79**(2), 217–246
`https://doi.org/10.1007/s13571-017-0136-z`
18. Chaubey, Y.P., Chesneau, C. and Navarro, F. (2017). Linear wavelet estimation of the derivatives of a regression function based on biased data. *Comm. Stat. - Theor. Meth.* **46**(19), 9541-9556.
`https://doi.org/10.1080/03610926.2016.1213287`
19. Firinguetti, L., Rubio, H. and Chaubey, Y.P. (2016). A non-stochastic ridge regression estimator and comparison with the James-Stein Estimator. *Comm. Stat. - Theor. Meth.* **45**(8), 2298–2310.
20. Bari, A. Khajaei, H., Stoddart, F.L., Street, K., Sillanpää, M.J., Chaubey, Y.P., Dayanandan, S., Endresan, D.F., De Pauw, E. and Damania A.B. (2016). *In silico* evaluation of plant genetic resources to search for traits for adaptation to climate change. *Climate Change* **134** 667-680.
21. Mishra, S., Pandey, C.M., Chaubey, Y.P. and Singh, U. (2015). Determinants of child malnutrition in empowered action group (EAG) states of India. *Statistics and Applications* **13**, 1–9.
22. Chaubey, Y.P. and Shirazi, E. (2015). On wavelet estimation of the derivatives of a density based on biased data. *Comm. Stat. - Theor. Meth.* **44,** 4491–4506.
23. Chaubey, Y.P. and Zhang, R. (2015). An extension of Chen's family of survival distributions with bathtub shape or increasing hazard rate function. *Comm. Stat. - Theor. Meth.* **44,** 4049–4064.
24. Chaubey, Y.P. and Shirazi, E. (2015). On MISE of a nonlinear wavelet estimator of the regression function based on biased data under strong mixing. *Comm. Stat. - Theor. Meth.* **44,** 885–889.
25. Mudholkar, G.S. and Chaubey, Y.P. (2015). On the polars of ordinally weighted unitarily invariant norms. *Investigations in Math Sc.* **5,** 1–9.
26. Chaubey, Y.P., Chesneau, C. and Doosti, H. (2014). Adaptive wavelet estimation of a density from mixtures under multiplicative censoring. *Statistics: A Journal of Theoretical and Applied Statistics* **49**:3, 638-659.
27. Chaubey, Y.P., Sen, D. and Saha, K. (2014). On testing the coefficient of variation in an inverse Gaussian population. *Statistics & Probability Letters* **90**, 121–128.
28. Khurana, M., Chaubey, Y.P. and Chandra, S. (2014). Jackknifing the ridge regression estimator: A revisit. *Comm. Stat. - Theor. Meth.* **43**:24, 5249–5262.

29. Chaubey, Y.P. and Sen, P.K. (2013). On nonparametric estimation of the density of a non-negative function of observations. *Calcutta Statistical Association Bulletin* **65**, 75–101.
30. Mudholkar, G.S. and Chaubey, Y.P. (2013). An entropy based rationale for maximizing likelihood and some related results. *Invest. Mathematical Sciences* **3**, 163–170.
31. Chaubey, Y.P., Singh, M. and Sen D. (2013). On symmetrizing transformation of the sample coefficient of variation from a normal population. *Comm. Stat. – Simula. - Computa.* **42**, 2118–2134.
32. Chaubey, Y.P., Chesneau, C. and Shirazi, E. (2013). Wavelet-based estimation of regression function for dependent biased data under a given random design. *Journal of Nonparametric Statistics* **25(1)**, 53-71.
33. Chaubey, Y.P., Li, J., Sen, A. and Sen, P.K. (2012). A new smooth density estimator for non-negative random variables. *Journal of the Indian Statistical Association* **50**, 83-104.
34. Shirazi, E., Chaubey, Y.P., Doosti, H. and Niroumand, H.A. (2012). Wavelet based estimation for the derivative of a density by block thresholding under random censorship. *Journal of the Korean Statistical Society* **41**, 199–211.
35. Chaubey, Y.P., Laïb, N. and Li, J. (2012). Generalized kernel regression estimator for dependent size-biased data. *J. Stat. Plann. Inf.* **142**:3, 708–727.
36. Chaubey, Y.P., Dewan, I. and Li, J. (2012). An asymmetric kernel estimator of density function for stationary associated sequences. *Comm. Stat. – Simula. Computa.* **41(4)**, 554–572.
37. Sen, D. and Chaubey, Y.P. (2011). A class of accelerated life testing models based on the gamma distribution. *J. Ind. Soc. Agr. Stat.* **65**, 155–161.
38. Chaubey, Y.P., Chesneau, C. and Doosti, H. (2011). On linear wavelet density estimation: Some recent developments. *J. Ind. Soc. Agr. Stat.* **65**, 169–179.
39. Chaubey, Y.P., Dewan, I. and Li, J. (2011). Smooth estimation of survival and density functions for a stationary associated process using Poisson weights. *Statist. Probab. Lett.* **81**, 267–276.
40. Chaubey, Y.P., Doosti, H., Shirazi, E. and Prakasa Rao, B.L.S. (2010). Linear wavelet-based estimation for derivative of a density under random censorship. *Jour. Iran. Statist. Soc.* **9**, 41–51.
41. Doosti, H., Islam, M.S., Chaubey, Y.P. and Gora, P. (2010). Two dimensional wavelets for nonlinear autoregressive models with an application in dynamical system. *Italian Journal of Pure and Applied Mathematics* **27**, 39–62.
42. Chaubey, Y.P. and Dewan, I. (2010). Smooth estimation of survival and density functions for stationary associated sequences: Some recent developments. *J. Ind. Soc. Agr. Stat.* **64(2)**, 261-272.

43. Chaubey, Y.P., Sen, P.K. and Li, J. (2010). Smooth density estimation for length-biased data. *J. Ind. Soc. Agr. Stat.* **64(2)**, 145-155.
44. Chaubey, Y.P., Laïb, N. and Sen, A. (2010). Generalised kernel smoothing for non-negative stationary ergodic processes. *Journal of Nonparametric Statistics* **22**, 973–997.
45. Chaubey, Y. P., Mudholkar, G.S. and Jones, M.C. (2010). Reciprocal symmetry, unimodality and Khintchine's theorem. *Proc. R. Soc. A* **466**, 2079–2096.
46. Hachem, C., Chaubey, Y.P., Fazio, P., Rao, J. and Bartlett, K. (2010). Statistical analysis of microbial volatile organic compounds in an experimental project: identification and transport analysis. *Indoor and Built Environment*, **19(2)** 275-285.
47. Howlader, T. and Chaubey, Y.P. (2010). Noise reduction of cDNA microarray images using complex wavelets. *IEEE Transactions On Image Processing,* **19,** 1953-1967.
48. Singh, M., Chaubey, Y.P., Sarker, A. and Sen, D. (2010). Modeling heterogeneity along with spatially correlated errors in field trials. *J. Ind. Soc. Agr. Stat.* **64(2)**, 313-321.
49. Singh, M., Niane, A.A. and Chaubey, Y.P. (2010). Evaluating uniformity of plant varieties: Sample size for inference on coefficient of variation. *Journal of Statistics & Applications* **5(1)**, 1-13.
50. Chaubey, Y.P. and Sen, P.K. (2009). On the selection of the smoothing parameter in Poisson smoothing of histogram estimator: Computational aspects. *Pakistan Journal of Statistics* **25(4)**, 385-401.
51. Mudholkar, G.S. and Chaubey, Y.P. (2009). On defining P–values. *Statistics and Probability Letters* **79**, 1963–1971.
52. Chaubey, Y. P., Nebebe, F., Dzicielowski, K. and Sen, D. (2009). Estimation of joint distribution from marginal distributions. *International Journal of Statistical Sciences* **9,** 11-23.
53. Howlader, T. and Chaubey, Y.P. (2009). Wavelet-based noise reduction by joint statistical modeling of cDNA microarray images. *Journal of Statistical Theory and Practice* **3**, 349-370.
54. Hachem, C., Fazio, P., Rao, J., Bartlett, K. and Chaubey, Y.P. (2009). Identification and transport investigation of microbial volatile organic compounds in full scale stud cavities. *Building and Environment* **44**, 1691–1698.
55. Chaubey, Y.P. and Mondal, P.K. (2008). Estimation of distinct elements of a covariance matrix : MINQUE and MINQE. *Statistics and Applications* **6**, 157–170.

56. Chaubey, Y.P., Doosti, H. and Prakasa Rao, B.L.S. (2008). Wavelet based estimation of the derivatives of a density for a negatively associated process. *Journal of Statistical Theory and Practice* **2**, 453-463.
57. Chaubey, Y.P., Mudholkar, G.S. and Tian, L. (2008). Extremes, extreme spacings and tail lengths: an investigation for some important distributions. *Calcutta Statistical Association Bulletin* **61**, 243–265.
58. Chaubey, Y.P., Sen, D. and Mishra, S.N. (2008). Inference on overlap for two inverse Gaussian populations: equal means case. *Communications in Statistics-Theory and Methods* **37**, 1880-1894.
59. Chaubey, Y.P. and Sen, D. (2008). Estimator of mean in an inverse Gaussian population based on the coefficient of variation. *Journal of Statistical Research,* **42**, 1-16.
60. Chaubey, Y.P., Sen, A. (2008). Smooth estimation of mean residual life under random censoring. In *Beyond Parametrics in Interdisciplinary Research: Festschrift in Honor of Professor Pranab K. Sen.* IMS Collections, Volume 1: Eds.: N. Balakrishnan, Edsel Peña and Mervyn J. Silvapulle, (Beachwood, Ohio, USA: Institute of Mathematical Statistics), 35–49.
61. Chaubey, Y.P., Sen, A. and Sen, P.K. (2007). Smoothed function estimation for censored data. In *Encyclopedia of Statistics in Quality and Reliability*, John Wiley and Sons, Chichester, UK.
62. Chaubey, Y.P. and Yang, M.J. (2007). Inference for length and area biased exponentiated Weibull distribution. *Journal of Statistical Studies* **26**, 19-27.
63. Chaubey, Y.P. and Xu, H. (2007) Smooth estimation of survival functions under mean residual life ordering. *Jour. Statist. Plann. Inf.* **137**, 3303-3316.
64. Doosti, H. and Chaubey, Y.P. (2007). Wavelet linear density estimation for negatively dependent random variables. *Current Development in Theory and Applications of Wavelets* **1**, 57–64.
65. Doosti, H., Chaubey, Y.P. and Niroumand, H.A. (2007). On a wavelet-based method of estimating regression function. *Communications in Statistics–Theory and Methods* **36**, 2083–2098.
66. Doosti, H., Fakoor, V. and Chaubey, Y.P. (2007). Wavelet Linear Density Estimation for Negatively Associated Sequences. *Jour. Indian Statistical Association* **44**, 127–135.
67. Chaubey, Y.P. and Kochar, S.C. (2006). Smooth estimation of uniformly stochastically ordered survival functions. *Journal of Combinatorics, Information and System Sciences* **31**, 1-13.
68. Babu, G.J. and Chaubey, Y.P. (2006). Smooth estimation of a distribution and density function on a hypercube using Bernstein polynomials for dependent random vectors. *Statistics & Probability Letters* **76**, 959–969.

69. Chaubey, Y.P., Doosti, H. and Prakasa Rao, B.L.S. (2006). Wavelet based estimation of the derivatives of a density with associated variables. *Inter. Jour. of Pure and Applied Math* **27**, 97–106.
70. Mahmud, M., Abrahamowicz, M., Leffondre, K. and Chaubey, Y.P. (2006). Selecting the optimal transformation of a continuous covariate in Cox's regression: implications for hypothesis testing. *Communications in Statistics–Simulation and Computation* **35**, 27–45.
71. Chaubey, Y.P. and Doosti, H. (2005). Wavelet based estimation of the derivatives of a density for m-dependent random variables. *J. Iranian Statistical Society* **4,** 97-105.
72. Nebebe, F., DeSouza, C.M. and Chaubey, Y.P. (2005). Inverse Gaussian model for small area estimation via Gibbs Sampling. *SINET: Ethiopian Journal of Science* **28**, 1-14.
73. Chaubey, Y.P., Tiwari, R. and Gupta, R. (2004). Properties of mixed generalized least squares estimators in linear regression model. *International Journal of Mathematical Sciences* **III(2)**, 491–505.
74. Tripathi, T.P. and Chaubey, Y.P. (2004). Optimum PPS sampling design based on multivariate information for estimation of several totals. *Aligarh Journal of Statistics* **24**, 85–98.
75. Babu, G.J., Chaubey, Y.P., Gora, P. and Boyarsky, A. (2004). A new statistical method for filtering and Entropy estimation of a chaotic map from noisy data. *Bifurcation and Chaos* **14**, 3989-3994.
76. Chaubey, Y.P., Nebebe, F. and Goyal, S. (2004). On continuous review stock control with multiple suppliers and positive lead times. *International Journal of Mathematical Sciences* **III(1)**, 229-237.
77. Chaubey, Y.P., Nebebe, F. and Goyal, S. (2004). An analysis of mean and variance of effective lead times for continuous review stock control with multiple suppliers and positive lead times. *OPSEARCH* **41**, 52-62.
78. Chaubey Y.P. and Sen, P.K. (2002). Smooth isotonic estimation of density, hazard and MRL functions. *Calcutta Statistical Association Bulletin* **52**, 99-116.
79. Chaubey, Y.P. and Crisalli, A.N. (2002). The generalized smoothing estimator. *Journal of Statistical Research*, **36**, 111-129.
80. Babu, G.J., Canty, A.J. and Chaubey, Y.P.(2002). Application of Bernstein polynomials for smooth estimation of a distribution and density function. *J. Statist. Plann. Inference* **105**, 377-392.
81. Chaubey, Y.P. and Sen, P.K. (2002). Smooth estimation of Multivariate Survival and Density Functions. *Jour. Statist. Plann. and Inf.* **103**, 361-376.

82. Chaubey, Y.P. (2002). Estimation in inverse Gaussian Regression: Comparison of asymptotic and bootstrap distributions. *Jour. Statist. Plann. and Inf.* **100**(2), 135-143.
83. Mudholkar, G.S., Natarajan, R. and Chaubey, Y.P. (2001). Independence Characterization and Inverse Gaussian Goodness-of-Fit. *Sankhyā* **B63**, 362-374.
84. Chaubey, Y.P. and Kochar, S.C. (2000). Smooth estimation of stochastically ordered Survival functions. *J. Indian Statistical Association* **38**, 209-225.
85. Ahmad, M., Chaubey, Y.P. and Sen, P.K. (2000). On a sequential sampling design with multiple repeats for estimating population size. *Jour. Statist. Research* **34**, 19–29.
86. Ahmad, M., Chaubey, Y.P. (2000). Bayesian estimation of the size of a population under a sequential sampling design. *Amer. Jour. Math. Man. Sc.* **20**, 131–143.
87. Ahmad, M., Alalouf, S. and Chaubey, Y.P (2000). Estimation of the population total when the population size is unknown. *Stat. and Prob. Letters* **49**, 211-213.
88. Chaubey, Y.P. and Nebebe, F. (1999). Bayesian analysis of one-way data following inverse Gaussian distribution. *Jour. Statist. Research* **33,** 71–83.
89. Chaubey, Y.P. and Sen, P.K. (1999) . On smooth estimation of Mean Residual Life. *Jour. Statist. Plann. and Inf.* **75**, 223–236.
90. Chaubey, Y.P., Garrido, J. and Trudeau, S. (1998). On the computation of aggregate claims distribution: some new approximations. *Insurance: Mathematics and Statistics* **23**, 215–230.
91. Chaubey, Y.P. and Crisalli, A.N. (1997). Adjustment of the inclusion probabilities in case of non-response. *Quaderni di Statistica e Matematica* **19**, 53–65.
92. Chaubey, Y.P., Dwivedi, T.D. and Li, W. (1997). Batch sampling as a tool in estimating quality. *J. Nat. Acad. Math.* **11**, 128–141.
93. Chaubey, Y.P. and Srivastava, A.K. (1996). A study of Jackknife method in estimation of log-normal models. *Jour. Stat. Res.* **30** 49-66.
94. Chaubey, Y.P. and Sen, P.K. (1996). On smooth estimation of survival and density functions. *Statistics and Decisions* **14**, 1-22.
95. Chaubey, Y.P., Nebebe, F. and Chen, P.S. (1996). Small area estimation under an inverse Gaussian model. *Survey Methodology* **22**, 33-41.
96. Lee, H.S. and Chaubey, Y.P. (1996). MINQUE of variance components in generalized linear models with random effects. *Commun. Statist.-Theor. Method.* **25(6)**, 1375-1382.
97. Babu, G.J. and Chaubey, Y.P. (1996). Asymptotics and bootstrap for inverse Gaussian regression. *Ann. Inst. Stat. Math.* **48**, 75-88

98. Chaubey, Y.P. and Li, W. (1995). Comparison between maximum likelihood and Bayes methods for estimation of binomial probability with composite sampling. *Jour. Off. Stat.* **11**, 379–390.

99. Ahmad, M., Alalouf, S. and Chaubey, Y.P. (1993) A comparison of three sampling strategies for estimating population size. *Quaderni di Statistica e Matematica* **15**, 3–11.

100. Chaubey, Y.P. and Srivastava, T.N. (1992). Approximation to the distribution of order statistics for various populations. *Jour. Stat. Res.* **27**, 41–62

101. Tripathi, T.P. and Chaubey, Y.P. (1992). Improved estimation of a finite population mean based on paired observations. *Commun. Statist.-Theor. Meth.* **21**, 3327–3333.

102. Chaubey, Y.P. and Srivastava, T.N. (1991). On a multiplicative damage model and characterization of some distributions useful in growth models. *Quaderni di Statistica e Matematica* **13**, 23–32.

103. Chaubey, Y.P. (1991). A study of ratio and product estimators under a super population model. *Communications in Statistics* **A20(5&6)** 1731–1746.

104. Chaubey, Y.P. (1991). A note on non-negative minimum bias MINQE in variance components model. *Stat. Prob. Letters* **11**, 395–397

105. Ahmad, M. and Chaubey, Y.P. (1991). Locally most powerful test for testing the equality of variances of two linear models with common regression parameters. *Stat. Prob. Letters* **11**, 149–153.

106. Ahmad, M. and Chaubey, Y.P. and Sinha, B.K. (1991). Estimation of common mean of several univariate inverse Gaussian populations. *Ann. Inst. Stat. Math.* **43**, 357–367.

107. Chaubey, Y.P., Dwivedi, T.D. and Singh, M. (1990). On the exact variance of an unbiased product type estimator and its comparison with the sample mean. *Metrika* **37**, 255–262.

108. Chaubey, Y.P. (1989). Edgeworth expansions with mixtures and applications. *Metron* **XLVII**, 53–64.

109. Amahia, G.N., Chaubey, Y.P. and Rao, T.J. (1989). Efficiency of a new estimator in PPS sampling for multiple characteristics. *J. Stat. Plann Inf.* **21**, 75–84.

110. Chaubey, Y.P. and Singh, B. (1988). Almost unbiased estimation in multiplicative models. *Metrika* **35**, 13–28.

111. Chaubey, Y.P. and Dwivedi, T.D. (1987). Efficiency of regression method in estimating hazard rate from grouped survival data. *Communications in Statistics* **B16(3)**, 761–769.

112. Singh, B. and Chaubey, Y.P. (1987). On some improved ridge estimators. *Statische Hefte* **28**, 53–67.

113. Chaubey, Y.P. and Srivastava, T.N. (1987). On a characterization of Logistic distribution. *Indian Journal of Mathematics.* (Special Vol. on Ramanujan Centenary, IMS-Allahabad, India) **9**, 211–213.
114. Singh, B., Chaubey, Y.P. and Dwivedi, T.D. (1986). An almost unbiased ridge estimator. *Sankhyā* **B48**, 342–346.
115. Chaubey, Y.P. (1985). Estimators of covariances in time series models. *Statistics and Probability Letters* **3**, 51–53.
116. Chaubey, Y.P. (1984). On the comparison of some non-negative estimators of variance components for two linear models. *Communications in Statistics* **B13(5)**, 619–633.
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119. Chaubey, Y.P., Dwivedi T.D. and Singh, M. (1984). An efficiency comparison of product and ratio estimator. *Communications in Statistics - Theory and Methods* **13(6)**, 699–709. (Correction: **14(5)**, 1249-1250 (1985)).
120. Chaubey, Y.P. (1983). A non-negative estimator of variance closest to MINQUE. *Sankhyā* **A45**, 201–211.
121. Chaubey, Y.P. and Talukder, A.B.M. Nur Enayet (1983). Exact Moments of a Ratio of Two Quadratic Forms in Normal Variables. *Commun. Statist.-Theor. Meth.* **12(6)**, 675–679.
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123. Chaubey, Y.P. (1982). Minimum norm invariant quadratic estimation of a covariance matrix in linear Model. *Biom. Journal* **24**, 457–461.
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**(B) Book Chapters and Conference Proceedings:**

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2. Chaubey, Yogendra P., Singh, M. and Sen, D. (2021). Bayesian Inference for Inverse Gaussian Data with Emphasis on the Coefficient of Variation. In *Applied Statistics and Data Science*, Eds.: Y.P. Chaubey, S. Lahmiri, F. Nebebe and A. Sen, Pub.: Springer Nature, 79-96.

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**(C) Books and Book Reviews:**

1. *Applied Statistics and Data Science* (2021), (Eds.: Y.P. Chaubey, S. Lahmiri, F. Nebebe and A. Sen), Pub.: Springer Nature, Switzerland.
   `https://link.springer.com/book/10.1007/978-3-030-86133-9`
2. *Mathematical and Statistical Applications in Life Sciences and Engineering* (2017) (Eds.: M. R. Adhikari, A. Adhikari and Y. P. Chaubey), Springer Nature, Singapore.
   `https://doi.org/10.1007/978-981-10-5370-2`
3. *Some Recent Advances in Mathematics and Statistics* (2013) (Ed.: Y.P. Chaubey), (2013) World Scientific Pvt. Ltd., Singapore.
4. *Contemporary Topics in Mathematics and Statistics with Applications,* (2012) (Ed.: A. Adhikari, M.R. Adhikari and Y.P. Chaubey) Asian Books Private Limited, India, New Delhi.
5. *Recent Advances in Statistical Methods*, (2002) (Ed.: Y.P. Chaubey), Imperial College Press, London.
6. *Resampling Methods: A Practical Guide to Data Analysis*, by Philip I. Good, Book Review, *Technometrics*(2000), 42, 311.
7. *Resampling Based Multiple Testing*, by Peter H. Westfall and S. Stanley Young., Book Review, *Technometrics*(1993), 35, 450-451.
8. *Topics in Applied Statistics - Proc. of Stat '81 Canada*, Ed: Y.P. Chaubey and T.D. Dwivedi,Pub: Concordia University Press, Montreal

**6. Conference Presentations/invited Talks, Lectures, Seminars and Symposia**

*Conference Presentations:*

1. Singh, M., Chaubey, Y. P. and Sen, D. (2023). On Bayesian Inference in Accelerated Life Testing, presented at Mathematical Sciences for Advancement of Science and Technology (MSAST 2023), Kolkata, December 21-23, 2023. (Presented by Y. Chaubey)

2. Singh, M., Chaubey, Yogendra P., Sen, D. and Sarker, A. (2023). A Short Review on Bayesian Estimation of a Common Coefficient of Variation from Inverse Gaussian Distributions. *Journal of the Indian Society of Agricultural Statistics*, **77(1)** 43-48 (Based on a virtual presentation by M. Singh).
3. Chaubey, Yogendra P., Singh, M., Sen, D. and Sarker, A. (2021). Bayesian Inference for a Common Coefficient of Variation from Inverse Gaussian Distributions. The 2022 ISBA World Meeting, Poster presentation, June 26 - July 1, 2022, Montreal.
https://isbawebmaster.github.io/ISBA2022/
4. Chaubey, Yogendra P., Singh, M. and Sen, D. (2021). Inference on Coefficient of Variation from Inverse Gaussian Distributions: Some Recent Developments. MSAST 2021 - 11th International Conference of IMBIC 2021, Invited Paper (virtual), December 21-23, 2021, Kolkata, India.
5. Chaubey, Y.P. (2020). Nonparametric Smooth Estimation of Probability Density Function and Other Related Functionals, June 26, 2020, National Webinar, Punjab University, India.
6. Chaubey, Y.P. (2020). Nonparametric Smooth Estimation of Probability Density Function and Other Related Functionals, October 20, 2020, Online Seminar, McMaster University, Canada.
7. Mudholkar, G.S. and Chaubey, Y.P. (2019). On Polars of Ordinally Weighted Unitarily Invariant Norms. Conference in Honor of R. Bapat, December 26-27, 2019, Invited Talk, Indian Statistical Institute, Delhi, India.
8. Chaubey, Y.P. (2019). On Some Smooth Estimators of the Quantile Function for a Stationary associated Process, MSAST 2019 - 9th International Conference of IMBIC 2019, December 21-23, 2019, Invited Paper, Kolkata, India.
9. Chaubey, Y.P. (2019). Nonparametric Smooth Estimation of Probability Density Function and Other Related Functionals: Some New Developments, ICSTA 2019, August 13-14, 2019, Key Note Talk, Lisbon, Portugal
10. Chaubey, Y.P. (2018). Circular Density Estimation: Some New Insights. Invited Paper, The 2018 IAPQR Conference, January 4-6, 2018, Kolkata, India
11. Chaubey, Y.P. (2017). On Nonparametric Smooth Estimators of Probability Density Function for Circular Data. Invited Paper, 11th International Conference of IMBIC, December 21-23, 2017, Kolkata, India.
12. Chaubey, Y.P. (2017).On Smooth Kernel Estimation of a Circular Density Function. *Invited Talk*, *The 2017 IISA International Conference on Statistics,* December 27-30, 2017, Hyderabad, India.
13. Chaubey, Y.P. (2017). On smooth density estimation for circular data.*Invited Paper*, *World Statistics Congress, International Statistical Institute,* Morocco, July 2017.

14. Chaubey, Y.P. (2016). Nonparametric Estimation of Distribution and Density Functions Using $q-$Bernstein Polynomials. *Invited Paper*, 10th International Conference of IMBIC, December 21-23, 2016, Kolkata, India.
15. Chaubey, Y.P. (2015). On nonparametric density estimation for size biased data, *Keynote Speaker*, *Colloque de statistique et de biostatistique (dans le cadre des Cinquièmes Recontres Sherbrooke-Montpelier)*, Université de Sherbrooke, QC, Canada, 10-11 June , 2015.
16. Chaubey, Y.P. (2014). On normalizing transformations of the coefficient of variation for a normal population with an application to evaluation of uniformity of plant varieties. *Invited Speaker*, International workshop on 'Applied Mathematics and OMICS Technologies for Discovering Biodiversity and Genetic Resources for Climate Change Mitigations and Adaptation for Sustainable Agriculture in Drylands', Rabat, Morocco, 24-27 June 2014.
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18. Chaubey, Y.P. (2014). Smoothing parameter selection for nonparametric density estimation for length biased data: A Bayesian perspective. *Invited Speaker*, MSAST 2014, Kolkata, India, 21-23 December 2014.
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20. Chaubey, Y.P. (2014). Smoothing parameter selection for nonparametric density estimation for length biased data: A Bayesian perspective. *Invited Speaker*, IASSL 2014 Conference, Colombo, Srilanka, India, 28-30 December 2014.
21. Chaubey, Y.P. and Sen, P.K. (2013). Nonparametric estimation of end point of the data. *Invited Paper*, IISA-2013 Conference, Jan 2-5, 2013, Chennai, India.
22. Chaubey, Y.P. and Li, J. (2013). Smoothing parameter selection for nonparametric density estimation for length-biased data: A Bayesian perspective. *Invited Paper*, ISBA Regional Meeting and International Workshop/Conference on Bayesian Theory and Applications (IWCBTA) January 6-10, 2013; Banaras Hindu University, Varanasi, India.
23. Chaubey, Y.P. (2013). Survival distributions with bathtub shaped hazard: A selected review and a new distribution family. MSAST 2013, Kolkata, India.
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32. Chaubey, Y.P. (2006). Smooth estimation of multivariate distribution and density functions. *Invited Paper*, International Conference on Multivariate Statistical Methods in the 21st Century. Indian Statistical Institute, Kolkata, India, December 28-29, 2006.

33. Chaubey, Y.P., Sen, A. and Sen, P.K. (2005). Smooth estimation of mean residual life under random censoring, *Contributed Paper*, 33rd Annual Meeting of the Statistical Society of Canada, University of Saskatchewan, June 12-15, 2005.

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45. Chaubey, Y.P., Sen, P.K. and Zhou, X. (2002). A nonparametric regression smoother for nonnegative data, *Invited Paper*, International Conference on Recent Advances in Survey Sampling, Carleton University, Ottawa, ON, July 10-13, 2002.

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48. Chaubey, Y. P. and Sen, P. K. (2000 ). Smooth isotonic estimation of density, hazard and MRL functions, *Invited Paper,* 4th International Triennial Calcutta Symposium, Dec.26-28, 2000.
49. Chaubey, Y.P. and Kochar, S. (2000). Smooth estimation of stochastically ordered survival functions, *Invited Paper*, International Conference on Statistics in the 21st Century, University of Maine, Orono, USA, June 29- July 1, 2000.
50. Chaubey, Y.P. (2000). Statistical simulation and application, *Plenary Lecture*, National Conference on Operations Research and Information Technology, Dr. B.R. Ambedkar University, Agra, INDIA, April 2-3, 2000.
51. Chaubey, Y.P. (2000). Application of Bernstein polynomials for smooth estimation of survival functions. *Invited paper*, National Conference on Operations Research and Information Technology, Dr. B.R. Ambedkar University, Agra, INDIA, April 2-3, 2000
52. Chaubey, Y.P. and Crisalli, A.N. (2000). The generalized smoothing estimator, *Contributed Poster Presentation*, Statistical Society of Canada, Annual Meeting, June 4-7, 2000.
53. Chaubey, Y.P. and Crisalli, A.N. (2000) The generalized smoothing estimator of the population mean in survey sampling, *Invited Paper* in the session Symposium on Data Analysis and Computing of the Statistics section at the 87th Indian Science Congress, University of Pune, January 3-8, 2000
54. Chaubey, Y.P. (1999). Smooth estimation of survival and density functions, *Invited Paper*, Sixth International Conference on Statistics, Combinatorics and Related Areas, University of South Alabama, December 18-20, 1999.
55. Chaubey, Y.P. and Nebebe, F. (1999). Bayesian analysis of one-way data following inverse Gaussian distribution. *Contributed Paper*, 1999 Joint Statistical Meetings, Baltimore, MD, August 8-12, 1999.
56. Chaubey, Y.P. (1999). A non-parametric estimator of Dose-Response Curve. *Contributed Paper*, 27th Annual Meeting of Statistical Society of Canada, University of Regina, Regina, SK, June 6-9, 1999.
57. Chaubey, Y.P. and K. Venkateswarlu (1999). A numerical study of robust estimators of variance components in one way model. *Invited Paper* , 2nd IISA Conference, McMaster University, Hamilton, October 10-11 ,1998.

58. Chaubey, Y.P. (1999). Hypothesis testing by examples: A power function approach. *Contributed Paper*, Vth International Conference on teaching of Statistics, Singapore, June 21-26, 1998.
59. Chaubey, Y.P. (1997). Inverse Gaussian regression: Asymptotics and numerical investigation of the bootstrap, *Invited Paper*, International Conference on Combinatorics, Information Theory and Statistics, July 18-20, 1997, University of Southern Maine, Portland, Maine.
60. Chaubey, Y.P. (1997). On smooth estimation for distribution function and related functionals in survival analysis, *Invited Paper*, Symposium on Nonparametric Functional Estimation, University dé Montreal, October 13-24, 1997.
61. Chaubey and Sen, P.K. (1997). Tail-behavior of survival function and their smooth estimators, *Invited Paper*, Third International Triennial Calcutta Symposium on Probability and Statistics, Calcutta, India, December 26-28, 1997.
62. Chaubey, Y.P. and Ahmad, M. (1997). Bayesian estimation of the size of a population under a sequential sampling design, *Invited Paper*, International Conference on Combinatorics, Information Theory and Statistics, Dec. 18-21, 1997, Banaras Hindu University, Varanasi, India.
63. Chaubey, Y.P. and Sen, P.K. (1997). Smooth estimation of mean residual life; Lukacs symposium, *Invited Paper*, Bowling Green University, April 25-27, 1997.
64. Chaubey, Y.P. and Crisalli, A.N. (1995). Adjustment of inclusion probabilities in case of non-response. *Contributed Paper*, 23rd Annual Meeting of Statistical Society of Canada, July 1995, Montreal, Canada.
65. Chaubey, Y.P. and Talukder, A.B.M.N.E. (1994). A likelihood ratio type test for testing heteroscedasticity. *Contributed Paper*, 154th Annual Meeting of American Statistical Association, Toronto, Canada.
66. Chaubey, Y.P., Nebebe, F. and Chen, P.S. (1994). Small area estimation under an inverse Gaussian Model. *Contributed Paper*, 154th Annual Meeting of American Statistical Association, Toronto, Canada.
67. Chaubey, Y.P. and Li, W. (1993). Estimation of fraction defective through batch sampling. *Invited Paper*, Industrial Statistics and Quality Improvement Conference, August 20-22, 1993, Oakland University, Rochester, Michigan, USA.
68. Chaubey, Y.P. and Tripathi, T.P. (1993). Near optimum probabilities of selection in varying probability sampling. *Contributed Paper*, Indian Science Congress, Goa, India, 1993.
69. Chaubey, Y.P., Mudholkar, G.S. and Smethurst, P.A. (1991). On entropy-based goodness-of-fit tests: A practical strategy. *Invited Paper*, First International Triennial Calcutta Symposium on Probability and Statistics, Dec. 27 1991- Jan. 1, 1992, Calcutta, India.

70. Chaubey, Y.P. and Sim, A.B. (1990). A comparison of bootstrap, jackknife, maximum likelihood and some other methods for estimation in multiplicative models. *Contributed Paper*, 2nd World Congress of Bernoulli Society, Uppsala, Sweden, August 12-19, 1990, SSC Annual Meeting, May 1990 .
71. Chaubey, Y.P. (1988). Estimation in a random coefficient regression model: a selected review, Annual Meeting of Statistical Society of Canada, Victoria, B.C. June 8, 1988.
72. Chaubey, Y.P. (1987). Edgeworth expansions with mixtures and applications, *Contributed Paper,* 46th Session of International Statistical Institute, Tokyo.
73. Chaubey, Y.P. and Singh, B. (1985). Almost unbiased estimation in multiplicative models, *Contributed Paper*, Vth World Congress of the Econometric Society, Boston.
74. Singh, B. and Chaubey, Y.P. (1985). On some improved ridge estimators,*Contributed Paper*, Vth World Congress of Econometric Society, Boston.
75. Singh, B., Chaubey, Y.P and Dwivedi, T.D. (1985). An almost unbiased ridge estimator, *Contributed Paper*, 45th Session of International Statistical Institute, Amsterdam.
76. Chaubey, Y.P. and Belinsky, M. (1983). Confidence intervals of variance components in three way cross-classification model, *Contributed Paper*, SSC Annual Meeting, Vancouver, B.C.
77. Chaubey, Y.P. and Talukder, A.B.M.N.E. (1983). A Bayesian analysis for the ratio of two variances of linear models with common parameters, *Contributed Paper*, Annual ASA meeting, Toronto, Ontario.
78. Chaubey, Y.P. (1983). Estimators of covariances in time series models, *Contributed Paper*, XIIIth International Conference on Stochastic Processes and Their Application, Joint with Vth Annual Conference of the Indian Society for Theory of Probability and its Applications, Varanasi, INDIA
79. Chaubey, Y.P., Dwivedi, T.D., Nagar, A.L. and Singh, M. (1982). On the exact moments of two stage least squares estimator of parameters in simultaneous linear equations model, *Contributed Paper*, Golden Jubilee Conference of ISI Calcutta, INDIA.
80. Chaubey, Y.P., Dwivedi, T.D. and Singh, M. (1981). Two-stage robust regression, Statistics'81 CANADA, *Contributed Paper*, Concordia University, Montreal, Quebec.
81. Srivastava, V.K., Dwivedi, T.D., Chaubey, Y.P. and Bhatnagar, S. (1981). On finite sample properties of Beale's ratio estimator, *Contributed Paper*, International Symposium on Statistics and Related Topics, Carleton University, Ottawa.
82. Chaubey, Y.P. (1981). Efficiencies of some estimators of parameters of two linear models, *Contributed Paper*, 43rd Session of International Statistical Institute, Buenos Aires.

83. Chaubey, Y.P. and Gabor, G. (1979). Invariant estimation of regression parameters in errors in variables model, *Contributed Paper*, 42nd Session of International Statistical Institute, Manila.
84. Chaubey, Y.P. and Gabor, G. (1979). Restricted maximum likelihood estimators of common mean of two normal populations, *Contributed Paper*, Annual SSC Meeting, Saskatoon, Saskachewan.
85. Chaubey, Y.P. (1979). Method of MINQUE in linear model with intra-class covariance matrix, *Contributed Paper*, Conference on g-Inverses, Linear Models and Applications, Ohio State University, Ohio, June 1979.
86. Chaubey, Y.P. (1979). Testing homogeneity of the variances of a series of linear models, *Contributed Paper*, Statistical Climatalogy Conference, Hachioji, Tokyo, JAPAN.
87. Chaubey, Y.P. (1978). Testing the equality of variances of two linear models, *Contributed Paper*, Annual ASA Meetings, Sandiego, CA.
88. Chaubey, Y.P. and Rao, P.S.R.S. (1976). Efficiency of five estimators for the parameters of two linear models, *Contributed Paper*, Annual ASA meetings, Boston, MA.

*Lectures-Seminars:*

1. Department of Mathematics & Statistics, McMaster University, Hamilton, ON, Canada; *Invited Seminar*, 20 October 2020
   "Nonparametric Smooth Estimation of Probability Density Function and Other Related Functionals"
2. Department of Statistics, Panjab University, Chandigarh, India; *Invited Webinar*, 26 June 2020
   "Nonparametric Smooth Estimation of Probability Density Function and Other Related Functionals"
3. Applied Statistics Unit Seminar Series, Indian Statistical Institute Kolkata, India, *Invited Talk*, 10 January 2018
   "On Nonparametric Smooth Estimators of Probability Density Function For Circular Data"
4. Theoretical Statistics and Mathematics Unit, Indian Statistical Institute Delhi, India, *Invited Talk*, 7 February 2018
   "On Nonparametric Smooth Estimators Of Probability Density Function For Circular Data"
5. Cochin University of Science and Technology, Cochin, India, Inaugural Lecture Series, Indian Science Day.
   Topic 1: On a Smooth Estimator of Survival Function and Related Results
   Date: February 28, 2018

Topic 2: Reciprocal Symmetry, Unimodality and Khintchine's Theorem
Date: March 1, 2018

6. Theoretical Statistics and Mathematics Unit, Indian Statistical Institute Delhi, India, *Invited Talk*, 19 November 2014
"On nonparametric density estimation for size biased data"
7. Theoretical Statistics and Mathematics Unit, Indian Statistical Institute Delhi, India, *Invited Talk*, 16 January 2013
"On nonparametric estimators of the density of a non-negative function of observations."
8. Département de mathématiques et statistique, Université Laval, *Invited Talk*, March 3, 2011
"On nonparametric density estimation for length biased data"
9. Department of Mathematics and Statistics, University of Calgary, *Invited Talk*, April 23, 2009
"On a method of histogram smoothing and application in nonparametric density estimation."
10. *Key Note Speaker:* International Conference on New trends in Statistics and Optimization, October 20-23, 2008, University of Kashmir, Srinagar, India
11. Institute of Research in Medical Statistics, ICMR, Delhi, India. Invited Talk, January 23, 2004
"Randomized response technique: an introduction"
12. Department of Mathematics and Statistics, McMaster University. Invited Talk, February 26, 2003.
"On Hille's theorem and statistical applications"
13. UQAM, Department de Mathematiques, Montréal, QC; Joint UQAM/Concordia Statistics Seminar, November 2, 2001
"On Hille's theorem and statistical applications"
14. Université Laval , Départment de Mathematiques et de Statistique, QC., October 10, 2001
"On Hille's theorem and statistical applications"
15. Dr. B.R. Ambedkar University, Dau Dayal Institute of Operations Research, Agra, India, April 4,2000
"Statistical Simulations and Applications"
16. Kalindi College (University of Delhi), New Delhi, India, Feb 15, 2000.
"Randomized Response Technique for obtaining sensitive information in a sample survey"
17. University of Jammu, Jammu, India
Delivered two seminars on March 27, 2000.
Topic: Smooth estimation of survival and related functions

18. Indian Statistical Institute, Delhi Center, New Delhi, India Delivered two seminars during Feb 1 - Mar 31, 2000.
    Topic: Smooth estimation of survival and related functions
19. University of Pune, Department of Statistics, Pune, INDIA
    Delivered three seminars during Jan 11 - 29, 2000.
    Topic: Smooth estimation of survival and related functions
20. University of Bialystoc, Institute of Mathematics, Bialystoc, April 28, 1999
    "Role of statistics in modern society"
21. N.D. University of Agriculture and Technology,, Department of Statistics, Narendra Nagar (UP) India, July 1998.
    "Statistics: an understanding of chance phenomenon"
22. University of North Carolina, Chapel Hill, Department of Biostatistics, July 27, 1995
    "Smooth estimation in survival analysis"
23. Lucknow University, Lucknow, India
    "Small area estimation based an inverse gaussian super population model", July 15, 1994.
24. Banaras Hindu University, Varanasi, India
    "Use of multivariate information for obtaining near optimum probabilities of selection in varying probability sampling", February 1993.
25. Indian Statistical Institute, Calcutta, India
    "Improved estimation of finite population mean based on paired observations", March 1993.
26. Carleton University, Department of Mathematics and Statistics
    "Estimation in multiplicative linear models", April 20, 1991.
27. Delhi School of Economics, Delhi, INDIA
    "Almost unbiased estimation in multiplicative models", July 1986
28. Division of Theoretical Statistics and Division of Applied Statistics, Surveys and Computer Science, September 1985
    (i) "Some investigations about the properties of the product estimator in finite population sampling"
    (ii) "Some investigations on the properties of product estimator" April 1986
29. Department of Mathematics and Statistics,University of Pittsburgh, Pennsylvania
    "Almost unbiased estimation in multiplicative models" May, 1985
30. Banaras Hindu University, Department of Mathematics, Varanasi, INDIA
    "Jackknifing the ridge estimator" September, 1985
31. Department of Mathematics, Statisics and Computer Science Dalhousie University, Halifax
    "Best Minimum bias linear estimators in linear models" October, 1981

32. Mathematics Student Association ,Department of Mathematics, Concordia University
"Prediction using linear models" November, 1984
33. Department of Mathematics, Carleton University, Ottawa, ONT
"Minimum norm quadratic estimation and its modifications" December, 1977

*Seminars and Symposia:*

Invited Participant: International Conference on Mixed Linear Models, Florida State University, Gainesville, Florida, May 1985

## 7. TECHNICAL REPORTS

1. Chaubey, Yogendra P. and Zhang, Qi (2020). Contamination Severity Index: An Analysis of Bangladesh Groundwater Arsenic. Technical Report No. 3/20, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
2. Chaubey, Yogendra P. and Vu, Nhat Linh (2020). On An Entropy Estimator Based On a Non-parametric Density Estimator For Non-negative Data. Technical Report No. 2/20, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
3. Chaubey, Yogendra P. and Vu, Nhat Linh (2020). On An Entropy Estimator Based On a Non-parametric Density Estimator For Non-negative Data. Technical Report No. 2/20, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
4. Chaubey, Yogendra P. and Vu, Nhat Linh (2020). A Numerical Study of Entropy and Residual Entropy Estimators Based on Smooth Density Estimators for Non-Negative Random Variables. Technical Report No. 1/20, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
5. Chaubey, Yogendra P. and Karmaker, Shamal C. (2018). On Some Circular Distributions Induced By Inverse Stereographic Projection. Technical Report No. 2/18, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
6. Ejlali, N., Pezeshk, H., Chaubey, Yogendra P. and Sadeghi, M. (2018). Parrondo'S Paradox For Games With Three Players. Technical Report No. 1/18, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
7. Chaubey, Yogendra P. (2016). Smooth Kernel Estimation Of A Circular Density Function: A Connection To Orthogonal Polynomials On The Unit Circle. Technical Report No. 1/16, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
8. Khurana, M., Chaubey, Y. P. and Chandra, S. (2012). Jackknifing The Ridge Regression Estimator: A Revisit. Technical Report No. 1/12, Department of Mathematics and Statistics, Concordia University, Montreal, QC.

9. Chaubey, Yogendra P. and Sen, Pranab K. (2008). On the Selection of the Smoothing Parameter in Poisson Smoothing of Histogram Estimator: Computational Aspects, Technical Report No. 5/08, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
10. Chaubey,Y.P., Laib, N.and Sen, A. (2008). A smooth estimator of regression function for non-negative dependent random variables, Technical Report No. 2/08, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
11. Chaubey, Y.P., Sen, A. and Sen, P.K. (2007). A new smooth density estimator for non-negative random variables. *Technical Report 01/07*, Department of Mathematics and Statistics, Concordia University, Montreal, Canada.
12. Chaubey, Y.P., DeSouza, C.M. and Nebebe, F. (2003) . Bayesian inference for small area estimation under the inverse Gaussian model via Gibbs Sampling, Technical Report No. 4/03, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
13. Babu, G.J. and Chaubey, Y.P. (2003) . Smooth estimation of a distribution and density function on a hypercube using Bernstein polynomials for dependent random vectors, Technical Report No. 2/03, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
14. Chaubey, Y.P. and Crisalli, A. (2002) . The generalized smoothing estimator, Technical Report No. 1/02, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
15. Chaubey, Y.P. and Sen, P.K.(2002). Smooth isotonic estimation of density, hazard and mrl functions, *Technical Report No. 2/02*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
16. Chaubey, Y.P. and Crisalli, A. (2002). The generalized smoothing estimator, *Technical Report No. 1/02*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
17. Chaubey, Y.P. and Pitselis, G. (1998). Robust multiple regression with purely random coefficients, *Technical Report No. 1/98*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
18. Ahmad, M. and Chaubey, Y.P. (1998). Bayesian Estimation of the size of a population under a sequential sampling design, *Technical Report No. 7/98,* Department of Mathematics and Statistics, Concordia University, Montreal, QC.
19. Chaubey, Y.P., Garrido, J. and Trudeau, S. (1997). On the computation of aggregate claims distribution: some new approximations *Technical Report No. 7/97*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
20. Chaubey, Y.P. and Sen, P.K. (1997) On smooth estimation of distribution function and related functionals in survival analysis. *Technical Report No. 5/97*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.

21. Ahmad, M. and Chaubey, Y.P. (1997). On a sequential sampling design with multiple repeats for estimating population size. *Technical Report No. 3/97*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
22. Ding, Y. and Chaubey, Y.P. (1997). Optimality of partially augmented design, *Technical Report No. 2/97*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
23. Chaubey, Y.P. and Li, W. (1996). A relative efficiency comparison of Bayes estimators in randomized response technique and group response technique. *Technical Report No. 1/96*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
24. Ahmad, M., Alalouf, S. and Chaubey, Y.P. (1996). Estimation of population total when population size is unknown. *Technical Report No. 4/95*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
25. Chaubey, Y.P. and Crisalli, A.N. (1995) Adjustment of inclusion probabilities in case of non response. *Technical Report No.3/95*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
26. Ahmad, M., Alalouf, S. and Chaubey, Y.P. (1993) A comparison of three sampling strategies for estimatiing population size. *Rapport de recherche no 249*, Department de mathematiques et d'informatique, Universite du Quebec a Montreal, Montreal, QC.
27. Chaubey, Y.P. and Li, W. (1995). Group response technique: An alternative to randomized response technique. *Technical Report No. 5/95*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
28. Babu, G.J. and Chaubey, Y.P. (1993). Asymptotics and bootstrap for inverse Gaussian regression. *Technical Report No.2/93*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
29. Chaubey, Y.P. and Sen, P.K. (1993). On smooth estimation of survival and density functions. *Technical Report No. 1/93*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
30. Chaubey, Y.P. and Sen, P.K. (1992). A smooth estimator of survival function. *Technical Report No. 9/92*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
31. Chaubey, Y.P., Mudholkar, G.S. and Smethurst, P.A. (1991). On entropy-based goodness-of-fit tests: A practical strategy. *Technical Report No.2/91*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
32. Chaubey, Y.P. (1990) A study of ratio and product estimators under a super population model. *Technical Report No. 5/90*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.

33. Chaubey, Y.P. and Srivastava, T.N. (1990). Approximation to the distribution of order statistics for various populations. *Technical Report No.3/90*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.
34. Chaubey, Y.P. and Srivastava, T.N. (1990). On a multiplicative damage model and characterization of some distributions useful in growth models. *Technical Report No. 1/90*, Department of Mathematics and Statistics, Concordia University, Montreal, QC.

## 8. RESEARCH GRANTS AND AWARDS

- Graduate Studies, Dalhousie University, 1977, $500
- NSERC Operating Research Grant, 1978-79, $1443
  1979-80, $1494
  1980-81, $1494
  1981-82, $3270
  1982-83, $3777
  1983-84, $4004
  1984-85 to 1986-87 $7000/yr
  1987-88 to 1989-90 $7958/yr
  1990-91 to 1992-93 $7460/yr
  1993-94 to 1996-97 $7000/yr
  1997-98 $9000
  1998-99 $9900
  1999-00 $10395
  2000-01 $10395
  2001-04 4 Year Research Grant, $12,000/Yr.
  2005-10 5 Year Research Grant, $14,000/Yr.
  2011-16 5 Year Research Grant, $13,000/Yr.– Extended to 2017
  2017-22 5 Year Research Grant, $16,000/Yr.
  2023 Extension, $16,000.
  2018 HSCC-CANSSI Seed Grant, $10,000

- NSERC Equipment Grant, Work Station 1991-92, $13595
- NSERC Equipment Grant, Work Station 1994-95, $10107
- NSERC Equipment Grant, Work Station 1996-97, $20156
- NSERC Equipment Grant, Work Station 1998-99, $20200
- NSERC Equipment Grant, Work Station 2002-03, $40426
- Bell University Labs Research Grant 2002-03, $31,000
- General Research Fund, Concordia University
  1998-99, $2840.00

1997-98, $2500.00
1996-97, $1560.00
1995-96, $2561.00
1994-95, $2840.00
1993-94, $2500.00
1991-92, $2000.00
1990-91, $3000.00
1988-89, $2000.00

- Sacre Coeur Hospital 1990-91, $1500.00
- CMS Annual Seminar Scholarship, Carleton University, Ottawa, 1981
- FCAC Operating Research Grant,1984-85, $8927
- Faculty of Graduate Studies, Dalhousie University, 1979, $282
- CASA, Conference Grant, Concordia University
  1979, $646
  1981, $680
  1983, $280
  1991, $600
  1993, $600

## 9. REVIEW AND OTHER ASSESSMENT OF ACADEMIC WORK

1. External Reviewer, Promotion Dossier: Asokan Variyath, Memorial Universtiy of Newfoundland, September 2023.
2. External Reviewer, Promotion Dossier: Alexandre Leblanc, Universtiy of Manitoba, September 2021.
3. External Reviewer, Promotion Dossier: Asokan Variyath, Memorial Universtiy of Newfoundland, September 2019.
4. External Reviewer, Promotion Dossier: Sudheesh Kattumanil, Indian Statistical Instuitute, September 2019.
5. External Reviewer, Promotion Dossier: Jingjing Wu, Universtiy of Calgary, September 2019.
6. Examiner, PhD Thesis: Abel Dasylva, Carleton University, September 2018.

7. External Reviewer, Promotion Dossier: Raed A. Alzghool, Al-Balqa' Applied Universtiy, Jordan, August 2018.
8. External Reviewer, Tenure Dossier, Cindy Feng, School of Public Health, university of Saskatchewan, August 2017
9. External Reviewer, Tenure Dossier, Avishek Mallick, Oakland University, November 2017
10. Examiner, PhD Thesis: Aditi Kumari, Central University of Rajasthan, June 2024
11. Examiner, PhD Thesis: Ms. Komal Shekhawat, Institute of Infrastructure Technology Research and Management (IITRAM), Ahmedabad, India, September 2022
12. Examiner, PhD Thesis: Sanghmitra Sharma, Aligarh Muslim University, November 2017.
13. Examiner, PhD Thesis, Rebecca Burne, McGill University, August 2016
14. Examiner, PhD Thesis: Mr. A. Awasthi, SG Post Graduate Institute of Medical Sciences, Lucknow, India, July 2016
15. Examiner, PhD Thesis: Ms. A. Venmani, National Institute of Epidemiology, (Indian Council of Medical Research) Chennai, India, June 2016.
16. Examiner, PhD Thesis: M. Belalia, Départment de Mathématiques, Université de Sherbrooke, February 2016.
17. Examiner, PhD Thesis: Shiraj Omer, Economics, Social and Humanities Studies Council at the Sudan Academy of Science, Khartoum, Sudan, September 2014.
18. External Program Reviewer, Department of Mathematics and Statistics, University of New Brunswick, March 2014.
19. Examiner, PhD Thesis: Di Liu, Department of Economics, Concordia University, June 2014.
20. Examiner, PhD Thesis: Maryam Tayefi Nasrabadi, University of Pune, India, November 2013.
21. Examiner, PhD Thesis: Prem Chandra, All India Institute of Medical Sciences, Delhi, India, August 2012.
22. Examiner, PhD Thesis: Shabnam Chitsaz, University of Windsor, April 2012
23. Examiner, PhD Thesis: Alomgir Hossain, University of Saskatchewan, November 2011

24. Examiner, PhD Thesis: Parviz Malekzadeh, University of Pune, Pune, India, September 2011.
25. Examiner, PhD Thesis: P.G. Sarvanan, Bharthiar University, Coimbtore, India, September 2011.
26. External Program Reviewer, Department of Mathematics and Statistics, Carleton University, March 2011.
27. Examiner, PhD Thesis: Ajay Singh, "An epidemiological study on hiv/aids: a hospital based study", BHU, Varanasi, India, May 2010.
28. Examiner, PhD Thesis: Qunshu Ren, "Contributions to level set estimation, nonparametric regression, confidence intervals from imputation data and longitudinal marginal logistic regression model on survey data", Carleton University, November 2007
29. Examiner, PhD Thesis: Prem Chandra, "Biostatistical Aspects of Randomized Clinical Trials on Remnant Ablation in Differentiated Thyroid Cancer", AIIMS, India, September 2006
30. Examiner, PhD Thesis: Moloy De, "Some contributions to two estimation problems: estimation of common mean and size of a finite population", Ph.D. thesis, University of Calcutta, October 2005
31. External Member, Ph.D. Thesis Committee: Andrea Benedetti, "Generalized additive models in epidemiologic research", Department of Epidemiology, Biostatistics and Occupational Health, McGill University, April 2004
32. External Examiner, Ph.D. Thesis: Changchun Xie, "Hierarchical quasi-likelihoods and their applications", Department of Mathematics and Statistics, University of Guelph, August 2003
33. External Examiner, Ph.D. Thesis: Manuila Tausi, "Estimating function variance estimation in complex surveys and combined classification", Carleton University, April 22, 2002.
34. Internal Examiner, Ph.D. Thesis: Esteban Flores, "Robust regression methods for insurance risk classification", Concordia University, March 2002.
35. Examiner, Ph.D. Thesis: Showkat Maqbool, "Optimization techniques in statistics", Aligarh Muslim University, Aligarh, India, 2002.
36. External-to-Program Examiner, Ph.D. in Administration: Kevin Laframboise, "An empirical study of the relationship between quality practices and business performance excellence in central Canada", Concordia University, October 2001.
37. External-to-Program Examiner, Ph.D. in Administration: Dat Dao Nguyen, "Forecasting macroeconomic models with artificial neural networks: an empirical investigation into the foundation for an intelligent system", Concordia University, October 1999.

38. External Examiner, Ph.D. Thesis: Pournamasi Panda, "Some strategies in two-stage sampling using auxiliary information", Department of Statistics, Utkal University, Bhubaneswar, India, January 1998.
39. External Examiner, Ph.D. Thesis: Thuan Thach, "Bootstrap and empirical likelihood methods for non i.i.d. models", Department of Statistics, University of Alberta, January 1998.
40. External Examiner, Ph.D. Thesis: A.H. Mir, "Optimization in sampling designs using multivariate auxiliary information", Department of Statistics, Aligarh Muslim University, Aligarh, India, 1995.
41. External Examiner, Ph.D. Thesis: B.K. Singh, "A study of some general classes of estimators in sample surveys under certain models", Banaras Hindu University, Varanasi, India, 1993.
42. External Examiner, M.Sc. Thesis: Grace Mwawasi, " Approximations and asymptotic expansions for the distribution of quadratic and bilinear forms." McGill Uiversity, 1992.
43. External Examiner, M.Sc. Thesis: A. Bar-Hen , McGill University, 1989.
44. Internal Examiner, Ph.D. Thesis: A.B. Sim, Department of Economics, Concordia University
45. External Examiner, M.A. Thesis: D.N. Jairu, Statistics, McGill University
46. External Examiner, M.A. Thesis: Laura Winer, Educational Technology, Concordia University
47. Referee of statistical journals( *Commun. Stat., J. Stat. Plann. Inf, Technometrics, JASA, Sankhyā, Journal of Multivariate Analysis, Journal of American Statistical Association, ASTIN Bulletin, American Journal of Mathematics and Management*)
48. Internal Examiner, Department of Mathematics and Statistics, Concordia University.
    - Oscar Quijano Xacur: PhD Thesis, September 2016-expected
    - Jian Tao: MSc Thesis, August 2014
    - Boyan Semerdjiev: MSc Thesis, July 2014
    - Syed Ahmadi: PhD Thesis, August 2013
    - Juliana Schulz: MSc Thesis, August 2013
    - Mohamad Elmasri: MSc Thesis, April 2012
    - Jun Zhou: PhD Thesis, August 2011
    - Oscar Quizano Xacur: MSc Thesis, August 2011
    - Baohua He: MSc Thesis, August 21, 2009
    - Jun Zhou: MSc Thesis, August 21, 2010

- Flora Tan: MSc Thesis, April 2009
- Yi Lu: Ph.D. Thesis, March 10, 2005
- Manuel Morales: Ph.D. Thesis, April 14, 2003.
- Anthony Tippa: M.Sc. Thesis, April 18, 2000
- Anna Nozza: M.Sc. Thesis , December 22, 1999
- Jun Cai: Ph.D. Thesis, July 1998
- M. Rahman: M.Sc. Thesis, 1996-97
- S. Bhattacharya: M.Sc. Thesis, 1996-97

## 10. CONTRACT RESEARCH AND CONSULTING

1. Professional Consulting on Data Analysis Project in Education Technical Assistant: R.K. Singh, Grant $600.00
2. Professional Consulting on Sacre Coeur Research Project, 1991 Technical Assistant: P.S. Chen, Grant: $2000.00
3. Department of Education, Dr. Lois Baron, Concordia University Consultation on "Research Proposal" , 1987
4. International Crops Research Institute for Semi-Arid Tropics, INDIA, 1986
   "Variance Components Estimation in Agricultural Experiments with Application to ICRISAT DATA"

4. Montreal General Hospital, 1985
   Consultation on "Protocol de Recherce"
5. SNC Inc, 1985
   Prediction Model in Fuel-Air Explosive Facility"
6. SNC Inc, 1983
   "Statistical Sampling Method for the UFFI Program Complaint Survey"
7. Bedford Institute of Oceanography, 1978
   "A Probability Model for Fish Catch Using Sonar Device"

## 11. LIST OF THESIS AND GRADUATE PROJECTS

*M.Sc. Projects:*

1. Maryam Yasamani, Department of Mathematics and Statistics (Joint supervision with Frederic Godin)- Completed, July 2018
   Project Title: Delaware and Maryland Electricity Consumption Time Series
2. Chang Hong, Department of Mathematics and Statistics - Completed, August 2018
   Project Title: An Application of Re-Sampling Methods On Imbalance Problem With Thyroid Data

3. Demin Qu, Department of Mathematics and Statistics - Completed, December 2020
   Project Title: Estimation of Coefficient of Variation by Jackknife and Bootstrap Methods
4. Dong Sun, Department of Mathematics and Statistics (Joint supervision with Debaraj Sen)- Completed, May 2013.
   Project Title: Interval Estimation of Coefficient of Variation For The Lognormal, Inverse Gaussian, Weibull and Gamma Distributions
5. Fan Zhang, Department of Mathematics and Statistics - Completed, May 2013.
   Project Title: A Comparison Of Poisson and Bernstein Smoothing Methods For Density Estimation
6. Roudy Espert, Department of Mathematics and Statistics - Completed, March 2010
   Project Title: Modeling Lifetime Data
7. Liming Guo, Department of Mathematics and Statistics
   Project Title: Lifetime Risk of Atrial Arrhythmias in Adults with Congenital Heart Disease: Applying the Practical Incidence Estimators (PIE) Macro
8. Shuguo Hu, Department of Mathematics and Statistics
   Project Title: Capability Index and its Applications in Quality Control
9. Janardhan Baral, Department of Mathematics and Statistics
   Project Title: Bias and Mean Squared Error of Misspecified Maximum Likelihood Estimators in Generalized Linear Mixed Models.
10. Zhong Cai, Department of Mathematics and Statistics
    Project Title: A comparison of Nonparametric Estimators of Survival Function with Right Censored Data
11. Lijuan Sun, Department of Mathematics and Statistics
    Project Title: Investigation of a new class of Bayesian Estimators in Pareto excess-of-loss reinsurance and it's comparison with a nonparametric method
12. Zahid Naseer, Department of Mathematics and Statistics
    Project Title: Bayesian Nonparametric survival analysis
13. Nadine Bensoussan, Department of Mathematics and Statistics
    Project Title: Variance Estimation in Two Stage Cluster Sammpling
14. Nabil Sleiman, Department of Mathematics and Statistics
15. Rodney Acteson, Department of Mathematics and Statistics
    Project Title: A Study of the Distribution of the Sample Mean from an Asymmetric Finite Population

*B.Sc./M.Sc. Theses:*

1. Skewed Spatial Modeling for Arsenic Contamination in Bangladesh, (Co-supervisor) M. Sc. Thesis of Qi Zhang (Completed, August 2019).

2. Comparison of weight growth models in a sample of children from 6 to 15 years, (Co-supervisor) M. Sc. Thesis of Neha Wadhawan (Completed, September 2018).
3. The Longitudinal Effect of Structural Brain Measurements on Cognitive Abilities,(Co-supervisor) M. Sc. Thesis of Fatemeh Hosseininasabnajar, (Completed, December 2017).
4. On Transformation Based Circular Density Estimators, M. Sc. Thesis of Yuhan Cao, (Completed, 14 May 2018).
5. On Estimators of a Spectral Density Function, M. Sc. Thesis of Chengyin Wang, (Completed, 14 May 2018).
6. On Some Circular Distributions Induced by Inverse Stereographic Projection, M. Sc. Thesis of Shamal C. Karmaker (Completed, November 14 2016).
7. A Comparison Study On The Performance Of Gamma Kernels Within Non-parametric Imputation, M.Sc. Thesis of Mianbo Wang, (Completed, 25 August 2014).
8. On imputation techniques in survey sampling, M.Sc. Thesis of Huirong Zhu, (Completed, 25 August 2014).
9. A Comparison Of Two Non-Parametric Density Estimators In The Context Of Actuarial Loss Model, M.Sc. Thesis Of Mengjue Tang, July 2011.
10. Transformations in the Greenwood Formula, B.Sc. Honours Thesis of Bao Gang Fei, December 2006.
11. Moment and Maximum Likelihood Estimators for the Exponentiated Weibull Distributions under Length-Biased Sampling, B.Sc. Honours Thesis of Ming Jie Yang, December 2006.
12. A comparison of Nonparametric Estimators of Survival Function with Right Censored Data, B.Sc. Honours Thesis of Zhong Cai, September 2005.
13. Assessing Power to Detect Gene-Environment Interactions Using Surrogate Outcomes: A Simulation Study, M.Sc. Thesis of Tamanna Howlader, August 2005.
14. A Comparison of Kernel and Bernstein Polynomial Estimators for Angular, B.Sc. honours Thesis of Wenhong Chen, August 2004.
15. On smooth estimation of survival function under MRL order, M.Sc. Thesis of Haipeng Xu, August 2004.
16. A New Three Parameter Life-time Distribution with Bath-Tub Shape Harazard Function, M.Sc. Thesis of Rui Zhang, August 2004.
17. Investigation of Tail Probability using Smoothed Estimation, M.Sc. Thesis of Serge Thiffeault, August 2004.
18. Convergence Rate Estimation through Subsampling, M.Sc. Thesis of Paul Papdiuk, September 2004.

19. Diagonostics in Generalized Linear Models, M.Sc. Thesis of Sonia Benghiat, June 2001.
20. Minimum Norm Quadratic Estimation of Variance Components with Restriction on Regression Parameters, M.Sc. Thesis of Prosanta Mondal, August. 2000.
21. Classification and Discriminant Analysis, M.Sc. Thesis of Goldisse Fazelli, April 17, 2000.
22. Accelerated Life Testing: Alternative Models, M.Sc. Thesis of Debaraj Sen, August 30, 1999
23. Bayesian Estimation of the Population Size, M.Sc. Thesis of Alfred Nnadozie, 1996
24. Differentes Techniques D'analyses-meta Appliquees a 6 Etudes Clinique Placebo-Controlees a Doubles Insu et en Chase-croise, M.Sc. Thesis of Stephane Bourque, (UQAM: Codirector with M. Ahmad), 1995.
25. Behaviour of the Posterior Distribution of Common Mean in Case Two Normal Populations, M.Sc. Thesis of Jun Zhao, 1994.
26. Smooth Estimation of Quantiles by Orthogonal Polynomials, M.Sc. Thesis of Bo Yang, 1994.
27. Estimation of Parameters in Item Response Model of Psychological Testing, M.Sc. thesis of W. Li, June 1992.
28. Estimation in the Inverse Gaussian Regression Model, M.Sc. thesis of Ravinder K. Singh, June 1992
29. Inverse Gaussian Distribution and Analysis of Factorial Experiments, M.Sc. Thesis of N.N. Tarikere, June 1991
30. Bayesian Estimators of Finite Population Total and Mean under Some Specified Prior Distributions, M.Sc. Thesis of Xiaoping Hu, March 1991
31. Estimation of Parameters of Small Domains in Finite Populations, M.Sc. Thesis of P.S. Chen, September 1989.
32. The Use of Auxiliary Information for Estimation in Finite Population Sampling, M.Sc. Thesis of L.S.W. Li Vong Shing, 1985.
33. Test of Homogeneity of Variances of Normal Linear Models, M.Sc.Thesis of A.B.M.N.E. Talukder, 1983
34. Some Aspects of Survival Analysis , M.Sc. Thesis of Robert Dan Mensah, 1981

*PhD. Theses:*

1. Inference Procedures for Copula-Based Models of Bivariate Dependence, (Co-supervisor) Ph. D. Thesis of Magloire Loudegui Djimdou (Completed, December 2021).

2. Some fluctuation results on draw-down times for spectrally negative Levy processes and on estimation of Entropy and Residual Entropy for nonnegative random variables, (Co-supervisor) Ph. D. Thesis of Linh Vu (Completed, August 2020).
3. Some Contributions to Nonparametric Estimation of Density and Related Functionals for Biased Data, PhD Thesis of Jun Li, November 2010.
4. Wavelet-based Noise Reduction of cDNA Microarray Images, Ph.D. Thesis of Tammanna Howlader, June 2009.
5. Some Inference Problems in Inverse Gaussian Data, Ph.D. Thesis of Debaraj Sen, October 2004.
6. Non Parametric Prediction in Survey Sampling and its Application in the Non-response Problem, Ph.D. Thesis of Anthony Crisalli, October 1999.
7. Some New Types of Designs in Conjoint Analysis, Ph.D. Thesis of Yuan Ding, July 1997
8. A Reliability and Validity study of Randomized Response Technique and its Alternative: Group Response Technique, Ph.D. Thesis of W. Li, November 1996.

## 12. ORGANIZATIONAL AND ADMINISTRATIVE EXPERIENCE

**External:**

- Director, CANSSI-Quebec, Quebec Regional Office of The Canadian Statistical Sciences Institute (CANSSI), 2019-22
- Member, Board of Directors, The Statistical Society of Canada (Quebec Representative), 2002-2004, 2004-2006, 2011-13
- Member, Board of Directors, The Canadian Statistical Sciences Institute (CANSSI), 2015-16
- Member, Advisory Committee for the International Conference on Computational Mathematics and Statistics (ICCMS) 2017, Banasthali University, Rajasthan, India
- Moderator, ICARDA Workshop on "On Farm Trials", Amman, Jordan, August 2014
- Instructor, In-house Workshop for Students and Faculty on R, Banasthali University, Rajasthan, India, January 19-20, 2015
- Member, Board of Directors, Freedom from Poverty Foundation Inc., 2007-
- Organizer, Invited session on "Survival Analysis" at the International Statistics Conference at the University of Malaysia (ISCM05), December 27-31, 2005
- Symposia Organizer, "Nonparametric Estimation and Smoothing", SCRA 2004 - FIM XI, International Conference on Interdisciplinary Mathematical and Statistical Techniques, Lucknow, India, December 27-29, 2004

- Organizer and Chair, R.C. Bose Memorial Keynote Session, SCRA 2004 - FIM XI, International Conference on Interdisciplinary Mathematical and Statistical Techniques, Lucknow, India, December 27-29, 2004
- Judge Panelist, R.S. Varma Memorial Student Paper Competition, SCRA 2004 - FIM XI, International Conference on Interdisciplinary Mathematical and Statistical Techniques, Lucknow, India, December 27-29, 2004
- Member, Committee on Career Development, American Statistical Association, 2005-2007
- Vice President, Forum for Interdisciplinary Mathematics (FIM), 2005–2011
- Session Chair, Technical Session VI, IMS sponsored mini-meeting on Statistics in Social science and Agricultural Research, Visva-Bharati, Santiniketan, India, December 20-21, 2003
- Session Organizer and Chair, "Non-parametric Density Estimation and Survival Analysis" at the conference, , SCRA 2003/FIM X, (International Conference on Statistics, Combinatorics and Related Areas), University of Southern Maine, Portland, USA, October 3-5, 2003
- Member on International Advisory Committee, , SCRA 2003/FIM X, (International Conference on Statistics, Combinatorics and Related Areas), University of Southern Maine, Portland, USA, October 3-5, 2003
- Session Chair, Contributed Paper Session VIIA, International Conference on Recent Statistical Techniques in Life-Testing, Reliability, Sampling Theory and Quality Control. Banaras Hindu University, Varanasi, India, December 29-31, 2003
- Member on the Advisory Board of International Conference on Recent Statistical Techniques in Life-Testing, Reliability, Sampling Theory and Quality Control. Banaras Hindu University, Varanasi, India, December 29-31, 2003
- Associate Editor, Chilean Journal of Statistics 2009-
- Associate Editor, Statistical Methodology 2003-2016
- Member of the Editorial Board, Journal of Statistical Research 2002-
- Editor, the SSC Liaison, the newsletter of Statistical Society of Canada 2004-2006
- President, Statistical Society of Montreal, 2000-2001
- Session Chair, Inaugural session of National Conference on Operations Research and Information Technology, April 2-3, 2000, Dr. B.R. Ambedkar University, Agra, India
- Expert Member, Committee for formalization of the courses and syllabi of Bachelor of e-commerce, Dr. B.R. Ambedkar University, Agra, India, April 2000
- Judge, Best Paper for Young Scientist Award in Statistics Section, 87th Indian Science Congress, Pune, India, Jan 2000

- Member, Editorial Board, Aligarh Journal of Statistics, Aligarh Muslim University, India, 2002-
- Member, Editorial Board, International Journal of Mathematical Sciences, Serial Publications, India. 2001-2006
- Associate Editor, Annales des Sciences Mathématiques du Québec, 2001-2012
- Treasurer, International Indian Statistical Association, 1992-1996.
- 1st Vice President, Montreal Chapter of American Statistical Association, 1984-85.
- President, Canada-India Community Forum, 1983-1985
- Secretary, Montreal Chapter of American Statistical Association, 1983-1984

**Internal:**

- Chair, Organising Committee, Symposium on Risk Modeling, November 26, 2021
- Chair, Organizing Committee, Statistics 2021 CANADA, July 15-18, 2021.
- Co-Director, Montreal Health Statistics Centre, April 2018 - January 2021
- Acting Chair, Department of Mathematics and Statistics, Concordia University, June 1, 2017 - June 30, 2017.
- Interim Chair, Department of Mathematics and Statistics, Concordia University, August 1, 2016 - May 31, 2017.
- Graduate Programme Director, Department of Mathematics and Statistics, Concordia University, June 2016-July 2016.
- Chair, Department of Mathematics and Statistics, Concordia University, July 2005- May 2014.
- Member, Dean of the Faculty of Arts and Science (Concordia University) Search Committee, 2013-14.
- Member, Faculty Council (Faculty of Arts and Science, Concordia University), 2009-2014
- Member, Faculty of Arts & Science-Biostatistics(PERFORM) Hiring Committee, 2013-14
- Chair, Organizing Committee, Workshop on Nonparametric Curve Smoothing held at Concordia University, December 16-17, 2013. Sponsor: Concordia University (ARRE) and CRM-StatLab.
- Coordinator, Concordia CRM-StatLab, 2010 –
- Member, Senate Committee on Academic Priorities and Planning(SCAPP), Concordia University, 1999-2006.

- Chair, Organizing Committee, Statistics 2011 CANADA/IMST 2011 - FIM XX, An International Conference held jointly with Forum for Interdisciplinary Studies at Concordia University, 2011.
- Chair, Organizing Committee, Statistics 2001 CANADA, An International Conference held at Concordia University, 2001.
- Member, Organizing Committee, Statistics '81 CANADA, An International Conference held at Concordia University, 1981.
- Member, Faculty Research Committee, Arts and Science, Concordia University, 2001-03.
- Chair, Statistics Hiring Committee 2003-04
- Member, Actuarial Mathematics Hiring Committee, 2003-04
- Member, Departmental Personnel Committee, Department of Mathematics and Statistics, Concordia University, 1982-1983, 1983-1984, 1991-92, 1995-98, 2000-2005.
- Member, Computer Committee, Department of Mathematics, Concordia University, 2000-2014.
- Member, Departmental Hiring Committee, Canada Research Chair, Department of Mathematics and Statistics, Arts and Science, Concordia University, 2002-04.
- Member, Advisory Search Committee for the Chair, Department of Mathematics and Statistics, Arts and Science, Concordia University, 2001.
- Acting Chair, Department of Mathematics and Statistics, Concordia University, July 1999-December 1999
- Associate Chair, Department of Mathematics and Statistics Concordia University, June 1997- June 1999; July 2004-June 2005.
- Curriculum Coordinator, Department of Mathematics and Statistics Concordia University, 1995-97
- Undergraduate Programmme Director, Department of Mathematics and Statistics Concordia University, July 1992- June 1995; July 2002- June 2004.
- Graduate Programme Director, M.A./M.Sc., Department of Mathematics, Concordia University, 1983-1984.
- Graduate Statistics Seminar Coordinator, Department of Mathematics, Concordia University, 1979-1985.
- Chair, Statistics Group, Department of Mathematics, Concordia University, 1982-83.

## 13. PROFESSIONAL ORGANIZATION MEMBERSHIP

- Statistical Society of Canada

- American Statistical Association
- Institute of Mathematical Statistics
- International Statistical Institute, Elected Member (2005)
- International Indian Statistical Association
- Bernoulli Society
- Forum for Interdisciplinary Mathematics
- Indian Econometric Society
- Indian Science Congress