

CURRICULUM VITAE

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Personal Data

Date of Birth 23 August 1971

Marital Status Married

Nationality Indian

Employment Experience

July 1995 – June 1998 Research Fellow, Indian Statistical Institute, Kolkata.

July 1998 – April 1999 Ford Foundation Fellow, ITDD, CSDILE, School of International Studies,
Jawaharlal Nehru University, New Delhi.

May 1999 – May 2003 Lecturer, Economic Research Unit, Indian Statistical Institute, Kolkata.

August 2000 – May 2001 Visiting Lecturer, Department of Economics, Calcutta University

May 2002 – April 2003 Visiting Fellow, Institute for Social and Economic Research (ISER),
University of Essex, Colchester, UK

- November 2002 Visitor, Department of Economics and Department of Applied Economics and Management, Cornell University, Ithaca, USA
- May 2003 – October 2006 Assistant Professor, Economic Research Unit, Indian Statistical Institute, Kolkata.
- July 2007 Visitor, Department of Mathematics, Indian Institute of Sciences, Bangalore.
- November 2006 – February 2009 Faculty Member, ICFAI Business School Kolkata
- February 2009 – May 2009 Professor and Dean, International School of Business, Kolkata
- June 2009 – April 2010 Professor, Usha Martin Academy, Kolkata
- January 2010 Visitor, Department of Mathematics, Indian Institute of Sciences, Bangalore.
- April 2010 – May 2011 Registrar, Unitedworld School of Business
- April 2011 – March 2012 Visiting Scientist, Bayesian and Interdisciplinary Research Unit, Indian Statistical Institute, Kolkata
- April 2012 - Associate Professor, Sampling and Official Statistics Unit, Indian Statistical Institute, Kolkata
- June 2015 Scholar in residence, Dibrugarh University, Assam.
- April 2017 Visitor, Department of Mathematics, North Dakota State University
- April 2017 Visitor, Department of Economics, Virginia Tech University

Courses Taught

- (a) Microeconomic Theory I (MSQE, ISI, 1999 – 2000, part)
- (b) Microeconomic Theory II (MSQE, ISI, 1999 – 2000, part)
- (c) Time Series Analysis (MPhil, JNU, 1998 – 99, part & MStat, ISI, 2012 - 13)
- (d) Econometric Methods (MA, JNU, 1998 – 99 & BStat, ISI, 2003 – 04, 2004 - 05, 2005 - 06, MBA, NIMC, 2003 - 04)
- (e) Econometric Applications (MPhil, JNU, 1998 – 99, part)

- (f) Theory of Finance – I (MSQE & MStat, ISI, 1999 – 2000, 2000 – 01, 2001 – 02, 2003 - 04, 2004 - 05, 2005 - 06, MStat ISI, 2011 – 12)
- (g) Theory of Finance – II (MSQE, ISI, 2000 – 01, 2001 – 02)
- (h) Mathematical Methods for Economics (MA, JNU, 1998 – 99, part & MSQE, ISI, 1999 – 2000, part)
- (i) Industrial Organization (MA, CU, 2000 – 01)
- (j) Quantitative Methods (MBA, IBS, 2006 – 07, 2007 – 08, 2008 – 09; UMA, 2009 – 11)
- (k) Business Research Methods (MBA, IBS, 2006 – 07, 2007 – 08, 2008 – 09. UMA 2009 – 10)
- (l) Financial Strategies and Instruments (MPhil, WBUT, 2008).
- (m) Managerial Economics (MBA, UMA, 2009 – 10)
- (n) International Finance and Banking (UWSB, 2010 – 11, part).
- (o) Marketing Research Methods (UWSB, 2010 – 11, part)
- (p) Life Contingencies (MStat, ISI, 2011 – 12)
- (q) Linear Statistical Models (BStat, ISI, 2012 – 13, 2013 – 14)
- (r) Computational Finance (MTech (CS), ISI, 2013 – 14, 2014 – 15, 2015 – 16, 2016 – 17, 2017 – 18)
- (s) Actuarial Methods (MStat, ISI, 2014 – 15)
- (t) Financial Econometrics (MStat, ISI, 2016 – 17, 2017 – 18)
- (u) Quantitative Finance (MStat, ISI, 2016 – 17, 2017 – 18)

ISI: Indian Statistical Institute

JNU: Jawaharlal Nehru University

CU: Calcutta University

NIMC: National Institute of Management Calcutta

IBS: ICFAI Business School, Kolkata

WBUT: West Bengal University of Technology

UMA: Usha Martin Academy

UWSB: Unitedworld School of Business

Academic Responsibilities (Internal: ISI, IBS, ISB, UMA and UWSB)

- (a) Member, BStat selection committee, ISI, 1999, 2000, 2013, 2014
- (b) Member, MSQE selection committee, ISI, 2004
- (c) Convenor, JRF (Economics) selection committee, ISI, 2000 and 2001
- (d) Member, Placement committee, ISI, 2000 – 2006

- (e) Convenor of the seminar series at ERU, ISI, 1999 – 2002, 2004
- (f) Convenor, organizing committee of the *Conference on Models and Methods in Economics*, ERU, ISI, January 2002.
- (g) Supervised research of Shamim Mondal, JRF, ERU, ISI, 1999 – 2000
- (h) Supervised research of Tejamoy Ghosh, JRF, ERU, ISI, 2000 - 03
- (i) Supervised MStat dissertation, ISI: Three students in 1999 – 2000, One student in 2004 - 05, Two students in 2005 - 06. Five students in 2012 – 13. Two students in 2013 – 14, Five students in 2014 – 15, Two students in 2015 – 16, Five students in 2016 – 17, One student in 2017 – 18.
- (j) Supervised MTech (QROR) dissertation, ISI: Amit Mishra in 2003 – 04, Amit Kumar in 2004 - 05 and Satish Raja in 2005 - 06.
- (k) Supervised MTech (CS) dissertation, ISI: Two students in 2016 – 17, One student in 2017 – 18.
- (l) Convenor, Placement committee, ISI, 2004 – 2006
- (m) Member, Library Committee, ICFAI, 2006 – 2009
- (n) Guided 17 summer interns, MBA, ICFAI, 2007.
- (o) Member, Doctoral Advisory Committee of Kaushik Bhattacharya, IIMT, ICFAI, 2007 – 08.
- (p) Guided 11 management research projects, MBA, ICFAI, 2007 – 08.
- (q) Guided 15 summer interns, MBA, ICFAI, 2008.
- (r) Guided 13 management research projects, MBA, ICFAI, 2008 – 09.
- (s) In charge of academic affairs including admissions, examinations and faculty improvement, ISB, 2009.
- (t) In charge of Library and supervision of the ERP system, ISB, 2009.
- (u) In charge of developing the ISB research centre, ISB, 2009.
- (v) Head, Usha Martin Research Centre, 2009 - 2010.
- (w) In charge of examinations, UMA, 2009 – 2010.
- (x) Member, Admission Committee, UMA, 2009 – 2010.
- (y) In charge of academic affairs regarding delivery scheduling and examinations for all centres (Kolkata, Ahmedabad, Mumbai, Delhi, Hyderabad), UWSB, 2010 – 2011.
- (z) Member, organizing committee of the conference *CIAS 2012*, BIRU, ISI, January 2012.
- (aa) Programme director, Workshop in Kolkata on Questionnaire Design for Social Science Research during July 23 – 27, 2012, Sampling and Official Statistics Unit, Indian Statistical Institute.
- (bb) Member, organizing committee of the conference *ICORS 2015*, ISI, January 2015.
- (cc) Member, organizing committee of the conference *Statfin*, CMI & ISI, 2016 –

(dd) Member, organizing committee of the conference *YSM 2019*, ISRU, ISI, January 2019.

Academic Responsibilities (External)

- (a) External examiner, MA in Economics (Financial Economics), Jadavpur University, 2000, 2003
- (b) External examiner, BA in Economics (Econometrics), Jadavpur University, 2000, 2001
- (c) Resource person, UGC refresher course, Jadavpur University, November 2003
- (d) Resource person, UGC refresher course, Calcutta University, February 2004, February 2006.
- (e) External Reviewer, MSc in Economics (Econometrics and Game theory), University of Burdwan, 2004
- (f) Research Consultant, East India Securities Pvt. Ltd. 2006 – 2007.
- (g) Examiner of PhD thesis, Indira Gandhi Institute for Development Research, 2007
- (h) Member of the editorial board, International Econometric Review (formerly Eurasian Review of Econometrics), Econometric Research Association, Turkey, 2006 – till date.
- (i) Advisor to the Child Labour project funded by CRY, Centre for Studies in Economic Appraisal, Calcutta University. Also writing the following components for the final project report:
 - A Survey of the Theoretical and Empirical Literature on the Determinants of Child Labour
 - A Survey of the Observations on Child Labour and Related Issues by the National Sample Survey Organisation
 - Reviewing the Measurement of Employment and Unemployment in the Indian National Sample Survey
- (j) Expert for external review of courses for QT discipline group, Indian Institute of Foreign Trade, 2007.
- (k) Advisor to a Child Health Intervention project funded by NFICH Netherlands, Institute for Psychological and Educational Research, Kolkata, 2008.
- (l) External expert to a project on “Socio-Economic Survey in Barddhaman District” funded by WBIDC, NSHM Business School, Kolkata, 2008 – 09.
- (m) External examiner in Economics, Part Time MBA, Indian Institute of Foreign Trade, 2008.
- (n) External Consultant in the Rosa Luxemburg Society project “Women, Empowerment and the State: Targeting of Women in Employment-Generation Schemes”, Institute of Development Studies Kolkata, 2009.
- (o) External consultant to Market Forces for the preparation of District Human Development Report for Dhubri, Assam, India, 2009.

- (p) External expert in the project “Dynamics of Marriage, Separation & Remarriage: Urban Milieu in the New Millennium” in School of Women’s Studies, Jadavpur University, 2011.
- (q) Consultant, IMRB International, 2012.
- (r) Technical Advisor to the Index Committee of MCX-SX, 2013 – .
- (s) Member of the Core group within the Working group for the 72nd round of NSS, NSSO, 2013 – 2015.
- (t) Member of the Pratap Narain Committee on National Accounts, Indian Association for Research in National Income & Wealth, 2014.
- (u) Member of Survey Monitoring Committee of SEBI, 2015 – 16.
- (v) Member of the editorial board, Studies in Microeconomics, India, 2015 – till date.
- (w) Member of the Working group for the 74th round of NSS, NSSO, 2015 – .
- (x) Member of the Expert Committee on Disclosure Control, NSSO, 2015 - .
- (y) External moderator in BSc Statistics, St. Xaviers College, Kolkata.
- (z) Advisor to the Ministry of Electronics and Information Technology (MeitY) (HRD Division) for interim evaluation of Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA), 2018 – 2019.

MPhil and PhD Guidance:

- a) Co-supervisor for the MPhil theses of Saurav Sarkar and Nimisha Chakraborty, West Bengal University of Technology, **Awarded 2009.**
- b) Co-supervisor for the PhD thesis of Saswati Das, Department of Economics, Calcutta University, 2007 - 2009. **Awarded 2010.**
- c) Co-Supervisor for the PhD thesis of Angan Sengupta, Institute for Social and Economic Change, Bengaluru, 2010 – 2016, **Awarded 2016.**
- d) Supervisor for the PhD thesis of Kiranmoy Chatterjee, Indian Statistical Institute, Kolkata, 2012 – 2016, **Awarded 2016.**
- e) Co-Supervisor for the PhD thesis of Abhijit Sarkar, Sikkim Manipal Institute of Technology, Gangtok, 2012 – 2018, **Awarded April 2019.**
- f) Co-Supervisor for the PhD thesis of Suranjana Joarder, Department of Economics, Calcutta University, 2014 – 2019, **Submitted April 2019.**
- g) Co-Supervisor for the PhD thesis of Ankita Dey, Department of Statistics, Calcutta University, 2015 –
- h) Supervisor for the PhD thesis of Sudip Ratan Chandra, Department of Mathematics, Jadavpur University, 2016 – 2019, **Submitted March 2019.**

Education

Ph.D. : Indian Statistical Institute, Kolkata, 1998.

Title of Ph.D. Thesis: Essays on Deprivation, Poverty and Well-being.

Master of Statistics : Passed with first class, distinction from Indian Statistical Institute, Kolkata, in 1995, with specialization in Quantitative Economics and Planning.

Bachelor of Statistics : Passed with first class from Indian Statistical Institute, Kolkata, in 1993.
Main Courses : Statistics, Mathematics, Probability, Inference, Computer Programming; with minor in Economics.

Language Proficiency: Fluent in Speaking, Reading and Writing in Bengali and English
Rudimentary knowledge of Hindi and French

Knowledge of Computers:

Programming Languages : Basic, Fortran and Pascal

Statistical Packages : Shazam, Eviews, Statistica, SPlus, SPSS, SAS, MATLAB

Books/Monographs:

1. '**Child Labour and Child Work, A Household Level Analysis For India**', ISBN 978-3-8383-3128-7, LAP Lambert Academic Publishing AG & Co. KG, Germany, 2010.
2. '**Gender, Employment and the State**', with Zakir Husain and Mousumi Dutta, ISBN-13: 978-3-639-27837-8, VDM Verlag Dr. Müller AG & Co. KG, Germany, 2010.
3. '**An Enquiry into Sarva Shiksha Abhiyan: The Universal Elementary Education Programme of India**', Nova Science Publishers, N.Y., 2011.
4. '**Cricket Performance Management- Mathematical Formulation and Analytics**', with Hemanta Saikia and Dibyojyoti Bhattacharjee, Springer Nature Singapore, *forthcoming* 2019,

Journal/ Book / Monograph Editorial Work

1. Guest Editor (with Sudipta Sarangi) for *Studies in Microeconomics*, vol. 2 (1), Special Issue on **Networks in Social and Cognitive Sciences**, Sage.
2. Guest Editor (with Surajit Borkotokey) for *Studies in Microeconomics*, vol. 3 (2), Special Issue on **Computational and Empirical issues in Network Analysis**, Sage.
3. Co-Editor (with Claudio Agostinelli, Ayanendranath Basu & Peter Filzmoser) for **Recent Advances in Robust Statistics: Theory and Applications**, Springer, 2016.
4. Reviewer for Mathematical Reviews.

Research Papers: Accepted for Publication/Published

1. 'Deprivation Reducing Income Tax Functions', *Research on Economic Inequality*, 1997, Vol. 7, 153 -163, JAI Press, Connecticut.
2. 'On A Measure of Mobility', (with S. R. Chakravarty), *Indian Journal of Applied Economics*, 1997, Vol. 6 (No. 3), 111 - 123.
3. 'On The Family of Subgroup and Factor Decomposable Measures of Poverty' (with S. R. Chakravarty and R. R. Ranade), *Research on Economic Inequality*, 1998, Vol. 8, 175 -194, JAI Press, Connecticut.
4. 'Lorenz Domination, Utilitarian Deprivation Rule and Minimum Sacrifice Principle' (with S. R. Chakravarty), *The Manchester School*, 1998, 66, 521 - 531.
5. 'Measures of Deprivation and Their Meaning in Terms of Social Satisfaction' (with S. R. Chakravarty), *Theory and Decision*, 1999, 47, 89 - 100.
6. 'Ranking Income Distributions by Deprivation Orderings', (with S. R. Chakravarty), *Social Indicators Research*, 1999, 46, 125 - 135.

7. 'Optimal subsidy for the Poor', (with S. R. Chakravarty), *Economics Letters*, 1998, 61, 313 – 319.
8. 'Incomplete Information as a Deterrent to Corruption', (with S. Marjit and M. Rajeev), *European Journal of Political Economy*, 2000, 16, 763-777.
9. 'Ordinally Significant Measures of Multidimensional Inequality', *Indian Journal of Applied Economics*, 1999, 8, 193 - 204.
10. 'Measuring Improvement in Well-being', (with S. R. Chakravarty), *Keio Economic Studies*, 1999, 36, 65 – 79.
11. 'Measuring Multidimensional Deprivation', *Mathematical Social Sciences*, 2001, 42(3), 233 - 51.
12. 'Capital Asset Pricing Model when Data is Skewed' (with Samik Metia), *Sankhya B*, 2001, 63(1), 108 - 121.
13. 'On A Symmetric Measure of Occupational Segregation', *Social Indicators Research*, 2002, 57, 1-11.
14. 'Hierarchical Preference and Consumption Deprivation', (with A. Majumder), *Journal of Economic Research*, 2003, 8, 1 – 16.
15. 'A Simple Algorithm for Estimating Continuous Time Stochastic Volatility Model', in B. Bhattacharya and M. Roy (Eds.), *Issues in Financial Economics*, Allied Publishers, 2005
16. 'Uncertain Demand, Choice of Capacity and Repeated Competition in a Duopoly Market' in A. Roychowdhury and B. Chatterjee (Eds.), *Trade, Finance and Development*, Deep and Deep, New Delhi, India, 2004.
17. 'Population Growth and Poverty Measurement', (With Satya R. Chakravarty and Ravi Kanbur), *Social Choice and Welfare*, 2006, 26, 471 - 83.

18. 'A Note on Generalized Productivity Indices', (with C. Neogi and A. Sengupta), in Ranjan Ghosh & Chiranjib Neogi (eds.), *Theory & Application of Productivity and Efficiency: Econometric and DEA approach*, Macmillan India Limited, 2005.
19. 'A Comment on Avoidance of Odd-eighth Quotes on Nasdaq', *Arthaniti*, 2004, 3, 107 - 11.
20. 'Multivariate Capital Asset Pricing Model' (With Amit Mishra), *ICFAI Journal of Applied Finance*, 2005, 11 (6), 40 - 50.
21. 'Measures of Effective Literacy: A Theoretical Note', (With Manas Ranjan Gupta), *Hitotsubashi Journal of Economics*, 47 (1), 2006.
22. 'Dowry Revisited: A Human Capital Approach' (with Shamim S. Mondal), in P. Bharati and M. Pal (Eds.), *Gender Disparity, Manifestations, Causes and Implications*, Anmol Publications, New Delhi, 2006.
23. 'An Analysis of Corporate Performance and Governance in India: Study of Some Selected Industries', (With Tejamoy Ghosh), in J. Panchali (eds.) *Indian Capital Markets: Perspectives and Evidences*, Seventh Annual Capital Markets Conference, Indian Institute of Capital Markets, 2003.
24. 'Multivariate Nonparametric Capital Asset Pricing Model' (With Amit Kumar), *ICFAI Journal of Financial Risk Management*, 2006, 3(2), 56 - 66.
25. 'Role of Women in Schooling and Child Labour Decision: The case of Urban Boys in India' (with Saswati Das), *Social Indicators Research*, 2007, 82(3), 463 – 86.
26. 'Poverty, Relative to the Ability to Eradicate It: An Index of Poverty Reduction Failure' (with Ravi Kanbur, *Economic Letters*, 2007, 97, 52 – 57.
27. 'Risk Neutral Pricing: Importance and Relevance' (with Gopal K. Basak), in E. Melnick and B. Everitt (Eds.), *Encyclopedia of Quantitative Risk assessment and Analysis*, John Wiley and Sons Ltd., Chichester, UK, 2008, 1569 – 74.

28. A Revisionist Analysis of the Failure of the Widow Remarriage Act of 1856, (with Indraneel Dasgupta), *Contemporary Issues and Ideas in Social Sciences*, Jawaharlal Nehru University, 3 (1), 2007.
29. Premature Mortality and Poverty Measurement, (With Ravi Kanbur), *Bulletin of Economic Research*, 2007, 59(4), 339 - 59.
30. 'Poverty Measures Incorporating Variable Returns to Population Growth', *Social Choice and Welfare*, 2008, 31, 97 - 107.
31. 'Investor Confidence in an Underdeveloped Stock Market', *ICFAI Journal of Financial Risk Management*, 2007, 4 (4), 7 – 12.
32. 'Role of Parental Education in Schooling and Child Labour Decision: Urban India in the Last Decade' (with Saswati Das), *Social Indicators Research*, 2008, 89, 305 – 22.
33. 'A New Measure of Gender Bias and its Concomitants' (with Aveek Dutta and Debanjali Banerjee), Arpita Dhar (Ed.), *Some Contemporary Issues on Development and Growth Economics*, Allied Publishers, 2011.
34. "Option Pricing under Alternative Distributional Assumptions on Asset Returns" (with Sudip Ratan Chandra), in O.P. Gupta (Ed.), *Indian Derivatives Market: An Empirical Study*, ICFAI University Press, 2009.
35. 'Corporate governance in India: Issues and strategies' (with Rajlakshmi Mallik), in Félix J. López Iturriaga (eds.), 'Codes of Good Governance Around the World', Chapter 18, Nova Science Publishers USA, pp. 437-483, 2009.
36. 'Can the Big Traders Control an Underdeveloped Stock Market?' (with Gopal K. Basak and Mrinal K. Ghosh), in B. Bhattacharya and M. Roy (eds.), *A Collection of Essays in Finance*, Allied Publishers, 2010, 77 - 97.
37. 'Measuring Harm due to Child Work and Child Labour: Patterns and Determinants for India' (with Saswati Das), in Bhaskar Dutta, Tridip Ray and E. Somanathan (Eds.), *New and*

Enduring Themes in Development Economics, Statistical Science and Interdisciplinary Research-Vol. 5, World Scientific Press, 2009.

38. 'A New Measure of Gender Bias', in M. Pal, P. Bharati, B. Ghosh and T.S. Vasulu (Eds.), *Gender and Discrimination: Health, Nutritional Status and Role of Women in India*, Oxford University Press, India, 2009, 278 – 293.
39. 'Parental Education Influencing Schooling and Child Labour Decision: Urban India in the New Millennium' (with Saswati Das), *Arthaniti*, 2009.
40. 'Price Exploration and Financial Market Efficiency' (with Jyotiska Bhattacharjee and Suraj Dey), *ICFAI Journal of Financial Risk Management*, 2009.
41. 'Equilibrium and Stability of a Stock Market Game with Big Traders' (with Gopal K. Basak and Mrinal Ghosh), *Differential Equations and Dynamical Systems*, **17 (3)**, 283-299, 2009.
42. 'Attitude to Schooling, Wage Premium and Child Labour ' (With Uday Bhanu Sinha), *Indian Growth and Development Review*, 2 (2), 2009.
43. "'Arranged' Marriage, Co-Residence and Female Schooling: A Model with Evidence from India', (With Indraneel Dasgupta and Pushkar Maitra), in H. Mukhopadhyay, K. Ghosh Dastidar and U.B. Sinha (eds.), "Dimensions of Economic Theory and Policy: Essays for Anjan Mukherji", Chapter 20, Oxford University Press, 2011.
44. "Is the Capital Market Efficient?" (with Sankha Ghosh), in Prankrishna Pal (Ed.), "Contemporary Issues in Development Economics: Methods and Applications", Regal Publications, India, 2009. Also reprinted in Conference Proceedings: Vunyale Narendar and D.K. Malhotra (Eds.), "Advances in Business and Finance Studies 2006, Vol. 1 – Capital Markets", ICFAI University Press.
45. "An Enquiry into Sarva Shiksha Abhiyan, The Universal Elementary Education Programme of India", in Frank Columbus (Ed.), "Urban Schools: Problems, Solutions and Progress", Nova Science Publishers, Chapter 1, pp. 1 – 36, NY, 2013.
46. 'Pareto Honouring Poverty Reduction', *Bulletin of Economic Research*, 64(2), 179 – 83, 2012.

47. 'Measuring Deprivation due to Child work and Child labour: A Study for Indian Children', (with Saswati Das), *Child Indicators Research*, 4(3), 453 – 66, 2011.
48. 'Influence of Big Traders on the Stock Market: Theory and Simulation' (with Gopal K. Basak and Mrinal K. Ghosh), *Dynamic Games and Applications*: 1(2), pp. 220 – 52, 2011.
49. 'Self Help Groups and Empowerment of Women: Self-Selection, or Actual Benefits?' (with Zakir Husain), *Journal of International Development*, 26, 422 – 37, 2014.
50. 'Education and Electoral Outcomes' (with Rajlakshmi Mallik), *Theoretical Economics Letter*, 2012.
51. 'Are women self help group members economically more empowered in Left-run municipalities?' (with Zakir Husain and Mausumi Dutta), *Development in Practice*, 23(1), 107 – 22, 2013.
52. 'Understanding NREGA: A Simple Theory and Some Facts', (with Uday Bhanu Sinha), in N. S. Siddharthan and K. Narayanan (Eds.), *Human Capital and Development: The Indian Experience*, Springer, 2013.
53. "Community vs. Individual Targeting in CSR Projects: A Case Study in West Bengal" (with co-authors), *Productivity*, 54(3), pp. 275 – 83, 2013.
54. 'Identity, Envy and Resource Loss', *International Game Theory Review*, 17(1), pp. 1540010-1 – 1540010-13, 2015.
55. "An Improved Estimator of Omission Rate for Census Count: With Particular Reference to India" (with Kiranmoy Chatterjee), *Communications in Statistics – Theory and Methods*, 45 (4), pp. 1047-1062, 2016.
56. "Corruption in Delegated Public Procurement Auction" (with Krishnendu Ghosh Dastidar), *European Journal of Political Economy*, 35, pp. 122 – 7, 2014.
57. "PIDE and Solution Related to Pricing of Levy Driven Arithmetic Type Floating Asian Options" (with Sudip R Chandra and Indranil Sengupta), *Stochastic Analysis and Applications*, 33 (4), pp. 630 – 52, 2015.

58. “Direct income transfers and public good provisioning: choosing between two anti-poverty schemes” (with S. Subramanian), *Economics Bulletin*, July 2015.
59. “Impact of Social Network on Financial Decisions” (with Koushiki Sarkar and Abhishek Ray), *Studies in Microeconomics*, vol. 3, 2: pp. 101-119, 2015.
60. “Interlinkage Between Psychological and Network Characteristic” (with Koushiki Sarkar and Abhishek Ray), *Studies in Microeconomics*, vol. 3, 2: pp. 77-88, 2015.
61. “A Mean-Reverting Stochastic Model for the Political Business Cycle” (with Gopal K. Basak and Mrinal Ghosh), *Stochastic Analysis and Applications*, 34 (1), pp. 96-116 2016.
62. “Barrier Option Under Levy Model : A PIDE and Mellin transform Approach” (with Sudip Ratan Chandra), *Mathematics*, 4(1), 2; doi:10.3390/math4010002, 2016.
63. “An improved integrated likelihood population size estimation in Dual-record System” (with Kiranmoy Chatterjee), *Statistics and Probability Letters*, 110, pp. 146-154, 2016.
64. “On the Estimation of Homogeneous Population Size from a Complex Dual-record System” (with Kiranmoy Chatterjee), *Journal of Statistical Computation and Simulation*, 86 (17), 3562 – 81, 2016.
65. “Exploratory Study of Select Commodity and Equity Indices Around the Meltdown of 2008” (with Arnab Mallick), in M. Roy and S. Sinha Roy (eds.), *International Trade and International Finance*, Springer India 2016, pp 387 – 404.
66. “Bi-cooperative Network Games: A Link Based Allocation Rule” (with Surajit Borkotokey and Loyimee Gogoi), *International Journal of Economic Theory*, 14, pp. 103 – 28, 2018.
67. “Assessing Consistency of Consumer Confidence Data using Latent Class Analysis with Time Factor” (with Sunil Kumar and Zakir Husain), *Economic Analysis and Policy*, 55, pp. 35 – 46, 2017.
68. "A Spatial Game Theoretic Analysis of Conflict and Identity" (with Anirban Ghatak and K S Mallikarjun Rao), *Computational Economics*, 52 (2), pp 493–519, 2018.

69. "On Intermediate Headcount Indices of Poverty" (with S. Subramanian) *Bulletin of Economic Research*, 70 (4), pp. 443 – 451, 2018.
70. "Economic Impact of Commodity Transaction Tax on Futures Contracts" *Prajnan*, 46(2), pp. 131 – 153, 2017.
71. "A Stochastic Model with Inflation, Growth and Technology for the Political Business Cycle" (with Gopal K. Basak and Mrinal Ghosh), *Computational Economics*, 53(1), 125 – 40, 2019.
72. "Effects of Volume of Trade and Time to Maturity on Volatility – The Oilseed Derivatives Market in India" (with Suranjana Joarder), *Prajnan*, 46 (4), pp. 335 – 51, 2018.
73. "Measuring the Performance of Batting Partners in Limited Overs Cricket" (with Dibyojyoti Bhattacharjee, Hermanus H. Lemmer and Hemanta Saikia, *forthcoming in South African Journal for research in sport, physical education and recreation*, 2018.
74. "A New Integrated Likelihood for Estimating Population Size in Dependent Dual-record System" (with Kiranmoy Chatterjee), *The Canadian Journal of Statistics*, 46 (4), pp. 577 – 92, 2018.
75. "Rise in Sales of Multi Axle Trucks in India: Governmental Initiatives, Industrial Development, and Operator Preferences" (with Abhijit Sarkar and Ajeya Jha), *Indian Journal of Marketing*, July 2018, pp. 7 – 22.
76. "Object–Color Stroop Task to Assess Selective Attention in "True" and "Legally Considered" Juvenile Delinquents" (with Tanusree Moitra and Garga Chatterjee), *Journal of Police and Criminal Psychology*, (2018). <https://doi.org/10.1007/s11896-018-9286-9>
77. "Optimizing Execution Cost Using Stochastic Control" (with Akshay Bansal), in F. Abergel, B. K. Chakrabarti, A. Chakraborti, N. Deo and K. Sharma (eds.) *Proceedings of ECONOPHYS-2017 and APEC-2017*, New Economic Windows series, Springer, 2019, pp. 49 – 59.
78. "Impact of MGNREGS on Child Labour and Child Education: An Empirical Analysis" (with Saswati Das), *Development in Practice*, 29 (3), pp. 384-394, 2019.

79. “The Interplay of Identity and Social Network: A Methodological and Empirical study” (with Abhishek Ray and Anirban Ghatak) in Nilanjan Dey, Samarjeet Borah, Rosalina Babo and Amira S. Ashour (eds.), *Social Network Analytics*, Ch. 10, pp. 183 – 201, Elsevier, 2018.
80. "Multilateral Interactions and Isolation in Middlemen driven Network Games" (with Loyimee Gogoi and surajit Borkotokey) in Nilanjan Dey, Samarjeet Borah, Rosalina Babo and Amira S. Ashour (eds.), *Social Network Analytics*, Ch. 9, pp. 163 – 181, Elsevier, 2018.
81. “Why does “last week” reporting give higher estimates than “last month”?” (with Prabir Chaudhury), *forthcoming in Communications in Statistics – Theory and Methods*, 2019.
82. “The lead-lag relationship between Futures and Spot Price – A case of the Oil and Oilseed contracts traded on Indian exchange” (with Suranjana Joarder), *forthcoming in Arthaniti*, 2019.
83. "Are values reported using quantities and prices in consumption expenditure data?"(with Prabir Chaudhury), *Journal of Statistical Theory and Practice*, 2019, 13: 40.
<https://doi.org/10.1007/s42519-019-0040-0>
84. “Foetal Starvation, Economic Adversity and Health: A Difference-In-Difference Approach” (with Zakir Husain, Mousumi Dutta and Susmita Mukhopadhyay) in Simanti Bandyopadhyay and Mousumi Datta (eds.), *Opportunities and Challenges in Development*, Springer Nature, Singapore, 2019.

Research Papers: Submitted for Publication/Unpublished

1. ‘A Comment on Credit Rating Equilibria’ (With K. Sengupta), presented (in absentia) at the 5th UTIICM Conference, Mumbai, December 2001.
2. ‘Capacity Choice under Demand Uncertainty’ (With Arijit Mukherjee), presented at the 11th DSA conference at the Department of Economics, Jadavpur University, Kolkata, December 2001.
3. ‘Human Capital, Marriage and Regression’, ISER working paper 2002 – 15, accepted for presentation in the sixth Social Choice and Welfare meeting, Caltech, USA, July, 2002

4. 'Vulnerability and Optimal Subsidy', paper presented in a Conference at the Department of Economics, Calcutta University, 2006.
5. 'Welfare Implications of Child Work and Child Labour in India: Patterns and Determinants' (with Saswati Das), paper presented at the International Conference on Comparative Development, Indian Statistical Institute, New Delhi, 2007.
6. 'Credible Information Transmission and Collective Action' (with Anindya Bhattacharya), accepted for presentation at the ninth Social Choice and Welfare meeting, Concordia University, Montreal, Canada, June 2008 and 3rd International Symposium on Economics, Athens, Greece, August 2008.
7. 'Assessment to Placement: Uncertainty and effort Choice' (with Rajlakshmi Mallik), presented at IIT Bombay and IGIDR, January 2012. *Earlier version* 'Teaching Assessment Trade-off and Performance Related Pay in Education', presented at the 4th Annual Conference on Economic Growth and Development, Indian Statistical Institute Delhi, 17 - 18 December 2008.
8. 'Wooing the Voters: Stochastic Dynamic Models for Political Regime Change and Economic Performance in a Democracy' (with Gopal K. Basak), Technical report no. BIRU/2011/1, Bayesian and Interdisciplinary Research Unit, Indian Statistical Institute, June 2011
9. 'Index of Ill Health' (with Ravi Kanbur), presented at the Workshop on Health Risk and Poverty, University of Hyderabad, March 2011.
10. "Politics of Violence: Identity, Isolation and Strategy in Insurgency Areas of India", (with Abhinandan Sinha, paper accepted for presentation at the **SCW** Conference, Boston College, USA, June 2014.
11. "A Model for Social Networks" (with Sourabh Bhattacharya, Sutanoy Dasgupta and Soumendu Sundar Mukherjee), mimeo, ISI, December 2014.

Projects

- (a) 'An Analysis of Corporate Performance and Governance in India: Study of Some Selected Industries' (With Tejamoy Ghosh), 2001 –2002, funded by PPRU, Indian Statistical Institute

- (b) 'Economic Problems of Illiteracy' (With Manash Ranjan Gupta and Prabhat Kumar Kuri), 2001 – 2003, funded by Indian Statistical Institute
- (c) Impact of JPMA, 1987 (With various ISI faculty members), 2006, funded by CPMA.
- (d) Survey on Marital Pattern in Kolkata, 1960-2000 (with Debarati Bhattacharya, IBS), 2007 – 08.
- (e) Survival Strategies in Urban Areas, An Examination of Social Networks among Low Income Households in Calcutta (with Ravi Kanbur, Cornell University and Zakir Husain, Rabindra Bharati University) 2007 – 08, funded by Cornell University.
- (f) To judge the quality of the government primary schools under the Sarba Shiksha Aviyon (SSA) in Kolkata under B-School Volunteering Options @ CRY-Kolkata, 2007 – 08, funded by ICFAI Business School.
- (g) Measuring the Quality of Life and Human Vulnerability in the Sunderbans, 2011 – 13, funded by Centre de Sciences Humaines (CSH), New Delhi, India.
- (h) Strategic Network Formation and Evolution, 2012 – 14, funded by Indian Statistical Institute, India.
- (i) Comprehensive Handloom Development Programme in Dakshin Dinajpur District, funded by Directorate of Textiles, Government of West Bengal, 2012 – 14.
- (j) Gram Jhalak assignment for Deoghar District for creating GP wise poverty index, funded by Deputy Development Commissioner Deoghar District, Jharkhand, 2013 – 14.
- (k) Setting up of Workstation at the Indian Statistical Institute, Kolkata, for Research on Micro-Data from Census, funded by the Office of Registrar General & Census Commissioner, 2013 – 14.
- (l) ISI-RBI research collaboration, funded by the Reserve Bank of India, 2014 – 16.
- (m) Project on fare structure and passenger profile, funded by Metro Railway, 2015 – 2016.

- (n) Algorithmic High-frequency Trading using Machine Learning Techniques, PPEC project, ISI, 2016 – 18.
- (o) UNDP consultancy assignment for development of Disaster Score Card for India: development of Disaster Risk Index for the districts/ States/UTs and Disaster Resilience Index, 2017.

Awards, Honors

National Talent Search Awardee, 1988, National Council of Educational Research and Training.

Best paper award in the International Conference on Business and Finance, ICFAI University and Philadelphia University, Hyderabad, 2004.

Included in '2000 Outstanding Intellectuals of the 21st Century', International biographical Centre, Cambridge, England, 2011.

Professional Affiliations

Life Member, The Indian Econometric Society

Life Member, Indian Statistical Institute

Invited Lectures

1. On Game Theory and Econometrics, HP Analytics, Bangalore, July 2007.
2. Panel discussion on 'Academia Corporate Interfacing: Study of Economics and Employment Prospects', in **Confluence 2008, India Unbound: Changing Contours**. Economics Department, St. Xavier's College, Kolkata, 19th - 20th September, 2008.
3. Concept of Hedging & Future Contracts, in "Procurement Strategy for Steel Plant in today's Volatile Market", Indian Institute of Material Management and mjunction services limited, 6 December, 2008, SAIL Synergy Hall, Durgapur. Repeated in 2010 and 2011 at IIMM Kolkata.

4. Panel discussion on “**President Barack Obama: A New Era for U. S.-India Relations?**”, American Center, Kolkata, in collaboration with the Foreign Policy Study Circle (FPSC), January 21, 2009.
5. Lecture on “Theory of Structural Equation Model” as part of a workshop on Structural Equation Modeling with Amos, Institute of Development Studies Kolkata and SPSS India, July 21, 2009.
6. Lecture on ”Financial Modeling” as part of a Workshop on Financial Modelling and Business Forecasting in Practical Business Applications, CII-Suresh Neotia Centre of Excellence for Leadership, Kolkata, March 2, 2011.
7. Lecture on “Cluster and Factor Analysis” as part of a Workshop on Applied Econometrics, Economics Department, Presidency University, 8 – 14 September 2011.
8. Lecture on ‘Descriptive Statistics’ as part of Workshop on Biostatistics, Hughly Mahasin College, 27 March 2012.
9. Lectures on “Time series” and “Factor Analysis” as part of a Workshop on Applied Econometrics, Economics Department, Presidency University, 3 – 7 September and 11 – 12 October 2012.
10. Lecture on “Time series and Applications” as part of a Workshop on Statistical Computing, Department of Statistics, North Eastern Hill University, Shillong, Meghalaya, 30 November – 2 December 2012.
12. Lectures on “Linear Regression” and “Contingency Tables” as part of a Workshop on Statistical Aspects of AMA Modelling for RBI, Applied Statistics Unit, Indian Statistical Institute, 10 – 14 December 2012.
13. Lecture on " Quantitative and qualitative research in Social Science” as part of ICSSR Workshop on Research Methodology in Social Science, Department of Library and Information Science, Mizoram University, 11th March 2013.

14. Lectures on “Factor Analysis”, “ANOVA” and “Logistic Regression” as part of the Workshop on Research Methodology, Assam Agricultural University, Biswanath Chariali, Assam, 13 – 15 March 2013.
15. Lecture on “Time series and Applications” as part of a Workshop on emerging areas in Applied Statistics, BIRU, ISI, March 19 – 21 2013.
16. Lecture on “Poverty Line” as part of the Refresher Course for ISS Officers on Poverty Analysis and Mapping, SOSU, ISI, 18 – 22 March 2013.
17. Lecture on “Scaling Techniques” as part of the Course on Research Methods for Government Officials, SOSU, ISI, August 5 – 10 2013.
18. Lectures on “Descriptive Statistics” and “Conjoint Analysis” as part of the North East Training Programme on Statistical Data Analysis, Dibrugarh University. Dibrugarh, Assam, 26th to 30th of November, 2013.
19. Lectures on “Factor Analysis” and “Conjoint Analysis” as part of the Workshop on Data Analysis for Business Research, Assam University, Silchar, Assam, 12th to 14th of December, 2013.
20. Lecture on “Estimation of Omission Rate in Census Count” as part of the Census Data Dissemination Workshop, Office of the Registrar General of India, Kolkata, 23rd – 24th December, 2013.
21. “On Development Indices” as part of Refresher course in Economics, UGC – Academic Staff College, University of Calcutta, 16th January 2014.
22. Lectures on “Principal Component Analysis” and “Factor Analysis” as part of the Refresher Course for ISS Officers on Econometrics, 7th February, 2014.
23. “Strategic Network Formation and Evolution: A Statistical Review and Preview” as part of DSA sponsored two day program, Department of Statistics, Calcutta University, 27 – 28 March, 2014.

24. Lectures on “Eigen-vector Method and PCA & Factor Analysis” as part of the training programme on 'Refresher Course on Statistical Analysis of Geoscientific Data using Statistical Software', The Regional Training Institute, Eastern Region, GSI, 10th April 2014.
25. Lectures “Test of Hypotheses and Correlation” for Sikkim Government Officials, Gangtok, Sikkim, 2 – 11 June 2014.
26. Lectures on for Tripura Government Officials, SOSU, 23 July 2014.
27. Lectures on “Regressions Analysis” for NE training programme, ASU,
28. Lecture on “Statistical Analysis using SPSS” at Kalyani JN Medical College, organized by SPSS, 26 August 2014
29. Lecture on “Structural Equation Modelling” at IDSK, Kolkata, 28 August 2014
30. Lectures on “Test of Hypotheses, Correlation and Regression Analysis” at Department of Economics, Presidency University, 25 – 26 September 2014.
31. Lecture on “Test of Hypotheses” at Department of Community Medicine, Guwahati Medical College, 25 March 2015.
32. Lecture on “Pricing Barrier Options using PIDE” at Dibrugarh University, 17 June 2015.
33. Lectures on “Regressions Analysis” for NE training programme, Guwahati, November 2015.

Conferences Attended and Chaired a Session or Presented Paper (selection)

1. 32nd Annual Conference of the Indian Econometric Society, March 1996, Bangalore, India.
2. Far Eastern Meeting of the Econometric Society, July 1997, Hong Kong.
3. 5th meeting of the Society for Social Choice and Welfare, June – July 2000, Alicante, Spain.
(Also chaired a session.)

4. Conference on Models and Methods in Economics, ERU, ISI, January 2002, **Chairperson in a session.**
5. Seminar at the Department of Economics, University of Nottingham, UK, October 2002.
6. Seminar at the Department of Economics, Cornell University, USA, November 2002.
7. 75 years of Development Research Conference, Cornell University, USA, May 2004.
8. NEUDC Conference, Cornell University, USA, October 2006.
9. International Conference on Business and Finance, ICFAI Hyderabad, December 2006.
10. Seminar at CESP, Jawaharlal Nehru University, New Delhi, March 2007.
11. International Conference on Stochastic Processes and Applications, Indian Institute of Sciences, Bangalore, 2007 (**Also chaired a session**).
12. International Conference on Statistical Paradigms: Recent Advances and Reconciliations (ICSPRAR-2008), Indian Statistical Institute Kolkata, India, January, 2008
13. International Conference on Issues in Finance- Theory and Empirics, Organized by Centre for Advanced Studies, Jadavpur University, Kolkata, January 2008.
14. International Conference “Development, Freedom and Welfare” in honour of Prof. Amartya Sen, Cornell University and Institute for Human Development, New Delhi, December 2008.
15. Development Convention, Institute for Social and Economic Change, Bangalore, January 2010.
16. DRS Sponsored Two Day Seminar on Health & Education: Efficiency versus Social Inclusion, February 2010, **Chairperson in a session**
17. International Conference on ‘Economic Theory, Markets and Institutions of Governance’, Jawaharlal Nehru University and National Institute of Public Finance and Policy, New Delhi,

India and Centre for International Governance Innovation, Waterloo, Ontario, Canada; New Delhi, March 2010.

18. Workshop on Health Risk and Poverty, University of Hyderabad, March 2011.
19. 11th meeting of the Society for Social Choice and Welfare, August 2012, New Delhi, India.
20. ISAOGTM'13, Indian Statistical Institute Delhi, January 2013.
21. Acted as **discussant for a session** in the Annual Conference of Indian Association for Research in National Income & Wealth, MGLI, Ahmedabad, 6-7th March, 2014.
22. Research Workshop and Conference on Statistical methods in finance, July 13-17, 2015 at Chennai, India, Organized by Chennai Mathematical Institute and Indian Statistical Institute, Chennai.
23. Conference on Statistical methods in finance, December 19 – 22, 2016 at Chennai, India, Organized by Chennai Mathematical Institute and Indian Statistical Institute, Chennai.
24. Midwest mini-conference on stochastic processes and mathematical finance, April 8, 2017, Department of Mathematics, North Dakota State University, USA.
25. Departmental Colloquium, April 2017, Department of Mathematics, North Dakota State University, USA.
26. Seminar at Department of Statistics and Department of Political Science, University of Minnesota, USA, April 2017.
27. Seminar at Department of Economics, Virginia Tech University, April 2017.

In addition, I have presented my work in various seminars and conferences at Universities of Essex, UK, Keele, UK; Jawaharlal Nehru University, New Delhi; Calcutta, Jadavpur, Burdwan and Rabindra Bharati; at Indian Statistical Institute, Kolkata and Delhi centre; Indian Institute of Sciences, Bangalore; Indira Gandhi Institute of Development Research, Mumbai; Indian Institute of Technology, Mumbai; and Business schools like IIM Calcutta, NBS Calcutta etc.

Journal Refereeing (Selection)

1. Applied Stochastic Models in Business and Industry
2. Berkeley Electronic Journals in Theoretical Economics
3. Bulletin of Economic Research
4. British Journal of Applied Science & Technology
5. Calcutta Statistical Association Bulletin
6. Computational Economics
7. Contemporary Issues and Ideas in Social Sciences
8. Econometrica
9. Economic Modeling
10. Economic Record
11. Economics Bulletin
12. European Journal of Law and Economics
13. European Journal of Political Economy
14. Eurasian Review of Econometrics
15. Global Journal of Educational Research
16. Global Journal of Economics and Finance
17. International Economic Review
18. International Econometric Review
19. Journal of Economic Inequality
20. Journal of Economics and International Finance
21. Journal of Emerging Market Finance
22. Journal of Geography and Regional Planning
23. Journal of Human Development and Capabilities
24. Journal of International Development
25. Journal of Population Economics
26. Journal of Public Economics
27. Journal of South Asian Development
28. Mathematical Social Sciences
29. NSHM Journal of Management Research and Applications
30. Oxford Economic Papers
31. Prajnan
32. Quantitative Finance
33. Review of Microeconomics
34. Sankhya
35. Sarvekshana, Journal of NSSO, India

36. Scientific Research and Essays
37. Social Choice and Welfare
38. Social Forces
39. Southern Rural Sociology
- 40. Several ICFAI University Press Journals**

Referees

1. Professor Ravi Kanbur (e-mail: sk145@cornell.edu)

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