

Curriculum Vitae

Chitradipa Chakraborty

Postdoctoral Fellow

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Education

- 2006: Secondary (89.25%), West Bengal Board of Secondary Education.
- 2008: Higher Secondary (85.14%), West Bengal Council of Higher Secondary Education.
- 2008–2011: B.Sc. in Statistics (Honors, 76.40%, 1st Class), St. Xavier's College, Kolkata.
- 2011–2013: M.Sc. in Statistics (CPI 8.5/10), Indian Institute of Technology (IIT), Kanpur.
- 2013–2014: Ph.D. coursework in Statistics (CPI 7.67/10), IIT Kanpur.
- 2014–2019: Ph.D. in Statistics, IIT Kanpur.
Title: *A Study on Non-parametric Methodologies Related to Location Parameter, Scatter Parameter and Regression Function*. Supervisor: Dr. Subhra Sankar Dhar.

Employment

- Postdoctoral Fellow, BIMSA, Beijing (Aug 2024 – Present)
- Assistant Professor, St. Xavier's University, Kolkata (Oct 2020 – Mar 2023)
- Visiting Scientist, Indian Statistical Institute (ISI), Kolkata (Dec 2019 – Sep 2020)
- Visiting Scientist, ISI Bangalore (Jun 2019 – Nov 2019)

Editorial Service

- Associate Editor, Journal of Academic Advancement (Nov 2022 – Jul 2023)
- Advisory Board Member, Kolkata Bidhannagar Society for Academic Advancement (Jul 2023 – Aug 2024)
- Editorial Advisory Board Member, Journal of Academic Advancement (Jun 2025 – Present)

Administrative Experience

- Member, Equal Opportunity Facilitation Cell (EOFC), St. Xavier's University, Kolkata (Nov 2022 – Mar 2023)

Research Interests

- Bayesian Modeling
- Non-Parametric Inference and Regression Problems
- Robust Statistical Methods and Estimation
- Measurement Error Models
- Statistical Methodologies in Business

Publications

Accepted / Published Articles

1. Chakraborty, C. (2019). Testing Multivariate Scatter Parameter in Elliptical Model based on Forward Search Method. *Statistics and Probability Letters*, 147, 66–72.
2. Chakraborty, C. and Dhar, S.S. (2020). A Test for Multivariate Location Parameter in Elliptical Model based on Forward Search Method. *Sankhya A*, 82, 68–95.
3. Chakraborty, C. (2024). Sampling in Business Research: A Profound Understanding. *International Journal of Research and Analytical Reviews (IJRAR)*, 11(1), 520–538.

Accepted / Published Book Chapters

1. Shalabh, Dhar, S.S., Chakraborty, C., and Jha, P. (2024). Goodness of Fit and Variable Selection in Non-parametric Measurement Error Model. In *Statistical Modeling and Applications on Real-Time Problems*. CRC Press.
2. Chakraborty, C. (2024). Leveraging Data Analytics in Business. In *Emerging Paradigm in Education and Research*. Vandana Publications.

Submitted / Preprint

1. Chakraborty, C. and Mukherjee, N. (2025). Bayesian Hybrid Machine Learning of Gallstone Risk. <https://doi.org/10.48550/arXiv.2506.14561>.
2. Chakraborty, C. (2025). Bayesian Modeling of Long-Term Dynamics in Indian Temperature Extremes. <https://doi.org/10.48550/arXiv.2507.01540>.

3. Chakraborty, C. and Das, K. (2025). A Latent Class Bayesian Model for Multivariate Longitudinal Outcomes with Excess Zeros. <https://doi.org/10.48550/arXiv.2509.04804>
4. Mukherjee, N. and Chakraborty, C. (2026). Cluster-Based Bayesian SIRD Modeling of Chickenpox Epidemiology in India. <https://doi.org/10.48550/arXiv.2601.04644>

In Preparation

1. Chakraborty, C. and Das, K. (2026). Change Point Detection in Gender Dataset.

Talks and Presentations

1. International Conference on Robust Statistics (ICORS), January 12-16, 2015, Indian Statistical Institute, Kolkata, India. Title of the Talk: “*On Multivariate Forward Search Estimator for Location and Scatter Parameters in Elliptical Model.*” (Contributed)
2. International Indian Statistical Association (IISA) International Conference on Celebrating Statistical Innovation and Impact in a World of Big and Small Data, December 20-24, 2015, Savitribai Phule Pune University, Pune, India. Title of the Talk: “*Multivariate Forward Search Estimator for Location Parameter in Elliptical Model and Associated Tests.*” (Contributed)
3. Research Scholar Day, January 23-24, 2016, Department of Mathematics and Statistics, Indian Institute of Technology, Kanpur, India. Title of the Talk: “*Multivariate Forward Search Estimator for Location Parameter in Elliptical Model and Associated Tests.*” (Contributed)
4. Research Scholar Day, January 27-28, 2018, Department of Mathematics and Statistics, Indian Institute of Technology, Kanpur, India. Title of the Talk: “*On Coefficient of Determination in Non-parametric Measurement Error Model.*” (Contributed)
5. Symposium, August 22-24, 2019, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore Centre, India. Title of the Talk: “*On Goodness of Fit in Non-parametric Measurement Error Model.*” (Contributed)
6. Faculty Development Programme (Online) on Research Methodology and Data Analysis, November 21-27, 2022, Kolkata Bidhannagar Society for Academic Advancement jointly with Nowgong College (Autonomous), Assam, Jhargram Raj College, Jhargram and Domkal Girls’ College, Murshidabad, India. Title of the session: “*Simple Use of Sampling in Research.*” (Invited)
7. Workshop on Application of Statistics in Research, December 19-20, 2022, Faculty of Commerce and Management in collaboration with Fr. Lafont Centre for Excellence

- in Research and Innovation (LCERI), St. Xavier's University, Kolkata. Title of the session: *"Use of Sampling in Research."* (Invited)
8. International Lecture (Online), June 3, 2023, Kolkata Bidhannagar Society for Academic Advancement, West Bengal, India. Title of the lecture: *"Sampling and Its Application in Research."* (Invited)
 9. Faculty Development Programme (Online) on Research Methodology, Publication and Ethics, December 10-19, 2023, Kolkata Bidhannagar Society for Academic Advancement, West Bengal in association with the Department of Commerce and IQAC, Chittaranjan College, Kolkata. Title of the session: *"Data Analytics in Business."* (Invited)
 10. Certificate Course (Online) on Research Methodology in Social Sciences, October 26-27, 2024, Kolkata Bidhannagar Society for Academic Advancement, West Bengal. Title of the course: *"Sampling Design."* (Invited)
 11. International Faculty Development Programme (Online) on Advanced Research Methodology and Data Analytics, November 10, 2024, Kolkata Bidhannagar Society for Academic Advancement, West Bengal in association with the Department of Commerce and IQAC, Vidyanagar College, West Bengal, India. Title of the session: *"Sampling Design."* (Invited)
 12. Postdoc Workshop, November 24, 2024, Tsinghua University, Beijing, China. Title of the talk: *"Bayesian Variable Selection for Analysing the Physical and Financial Health of Aged Adults: A Study Using Lasso Variants."* (Contributed)
 13. Postdoc Seminar, December 3, 2024, Beijing Institute of Mathematical Sciences and Applications (BIMSA), Yanqi Lake, China. Title of the talk: *"Bayesian Variable Selection Using Lasso Variants."* (Contributed)
 14. International Seminar (Online) on Interdisciplinary Insights: Advancing Economic, Social, Technological and Environmental Sustainability, June 22, 2025, Kolkata Bidhannagar Society for Academic Advancement, West Bengal in association with Department of Commerce, New Alipore College, Kolkata, India. Title of the session: *"Interdisciplinary Bayesian Analysis of Indian Temperature Extremes for Climate Change Mitigation."* (Invited)
 15. Postdoc Workshop, September 13, 2025, Tsinghua University, Beijing, China. Title of the talk: *"A Latent Class Bayesian Model for Multivariate Zero-inflated Longitudinal Outcomes in the Health and Retirement Study"* (Contributed)

Seminars/ Workshops Organized

- Workshop on Application of Statistics in Research, December 19 - 20, 2022, Faculty of Commerce and Management in collaboration with Fr. Lafont Centre for Excellence in Research and Innovation (LCERI), St. Xavier's University, Kolkata, India.
- Seminar on Statistics and Data Analysis, Apr 28 – Jun 13, 2025, Beijing Institute of Mathematical Sciences and Applications (BIMSA), Beijing, China.

Events Attended

- Workshop on Empirical Likelihood Based Methods in Statistics, June 6-24, 2016, Institute of Mathematical Sciences, National University of Singapore, Singapore. Title of the Poster: “Multivariate Forward Search Location Estimator in Elliptical Model.”
- International Conference on Importance of Statistics in Global Emerging Scenario (ISGES) in conjunction with 22nd Annual Conference of Society of Statistics, Computer and Applications, January 02-04, 2020, Savitribai Phule Pune University, Pune, India.
- Webinar on NAAC Assessment and Accreditation Process: The Know How, October 17, 2020 organized by St. Xavier's University, Kolkata, India.
- Online Panel Discussion on the Impact of National Education Policy, November 20, 2020 conducted by IQAC, St. Xavier's University Kolkata, India.
- Online Faculty Develop Program on Data Analysis using Python, June 27, 2022 to July 1, 2022 conducted by St. Xavier's College, Kolkata in collaboration with E&ICT Academy, IIT Kanpur, India.

Teaching Experience / Teaching Assistance / Tutorship

- Main Instructor and Subject Coordinator for the course Statistical Inference II: Large Sample Theory (M.Sc. in Statistics, 2nd semester), St. Xavier's University, Kolkata, 2022–2023 (7 students).
- Main Instructor for Business Statistics (M.Com., 1st semester), St. Xavier's University, Kolkata, 2021–2022 (30 students), 2020–2021 (24 students).
- Main Instructor and Subject Coordinator for Business Research Methods Theory (B.Com., 6th semester), St. Xavier's University, Kolkata, 2022–2023 (106 students in 3 sections), 2021–2022 (89 students in 3 sections), 2020–2021 (99 students in 2 sections).
- Co-Instructor for Business Quantitative Techniques and Operation Research (B.M.S., 5th semester), St. Xavier's University, Kolkata, 2022–2023 (140 students in 3 sections).

- Main Instructor and Subject Coordinator for Business Mathematics and Statistics (B.Com., 4th semester), St. Xavier's University, Kolkata, 2022–2023 (87 students in 2 sections), 2021–2022 (240 students in 4 sections), 2020–2021 (88 students in 2 sections).
- Main Instructor and Subject Coordinator for Business Mathematics and Statistics (B.Com., 3rd semester), St. Xavier's University, Kolkata, 2022–2023 (92 students in 2 sections), 2021–2022 (240 students in 4 sections).
- Tutor for Probability and Statistics, Indian Institute of Technology, Kanpur, Summer 2016–2017.
- Teaching Assistant for Probability and Statistics, Indian Institute of Technology, Kanpur, 2nd semester 2015–2016.
- Teaching Assistant for Writing in Mathematics, Indian Statistical Institute, Bangalore Centre, 1st semester 2019–2020.

Project Supervisor

- Main Supervisor of 25 B.M.S 4th Semester students for their Term Paper Project.

Research Gap

During the period from 2020 to 2023, I experienced a gap in publications due to medical issues related to maternity and gynecology. Despite this gap, I actively maintained my academic skills and stayed updated on developments in my field by participating in various academic events and training programs. As a Resource Person, I contributed to Faculty Development Programmes focusing on research methodology, data analysis, and publication ethics, and also delivered an international lecture on sampling methods. Additionally, I attended conferences such as the International Conference on the Importance of Statistics in the Global Emerging Scenario, and engaged in webinars and panel discussions relevant to higher education. These activities ensured that I remained actively involved in academic discourse and continuously improved my expertise in statistics and research methodology.

Internship

- Summer Internship on Official Statistics, NSSO, MoSPI, May–Jul 2012

Other Achievements

- AIR-34 in JAM 2011

- Inspire Scholarship holder
- Mess Secretary, IIT Kanpur, 2017
- Selected for GAANSOI under Smt. Jayati Chakraborty, session 2020–21

Computational Skills

R, C, C++

Languages

English, Bengali, Hindi

Non-Academic Interests

Singing, Recitation, Reading, Movies, Music