Name: Dr. Indrani Mukherjee

Designation: Assistant Professor

Qualifications: M.Sc., PhD

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Biographical Sketch

Dr. Indrani Mukherjee is currently working as an Assistant Professor in the Department of Statistics under the Faculty of Science at St. Xavier's University, Kolkata, West Bengal (20/01/2026–present). She holds a Ph.D. in Statistics from Visva Bharati University, with specialization in reliability models and statistical inference, supported by the DST INSPIRE Fellowship (2015-2020). Her academic career includes prior teaching engagements at MAKAUT, Visva Bharati University, and Sister Nivedita University. Dr. Mukherjee has published extensively in reputed national and international journals in the areas of statistical distribution theory, reliability analysis, and applied modeling. She has actively participated in national and international conferences, workshops, and faculty development programmes. She has also contributed to academic administration through leadership roles such as Head of the Department, Board of Studies member, and programme coordinator. Dr. Mukherjee is a life member of the Indian Society for Probability and Statistics (ISPS) and is committed to excellence in teaching, research, and institutional development.

Areas of Specialisation and Research

Reliability Analysis, Inferential Statistics.

Teaching Experience

1.   Assistant Professor in the Department of Statistics under the Faculty of Science, St. Xavier's University, Kolkata, WB. (20/01/2026-present)

2.   Assistant Professor (On Contract) in the Department of Applied Statistics, Maulana Abul Kalam Azad University of Technology (MAKAUT), WB. (03/12/2021-20/01/2026)

3.   Guest-Teacher in the Department of Statistics, Visva Bharati University, WB. (15/02/2021-02/12/2021)

4.   Visiting Faculty in the Department of Statistics, Sister Nivedita University, WB. (18/11/2021-08/12/2021)

Administrative Responsibility

1. **HoD**, Department of Applied Statistics, Maulana Abul Kalam Azad University of Technology (MAKAUT), WB (18/09/2024-15/01/2026).
2. PhD Cell member, Maulana Abul Kalam Azad University of Technology, WB.

3. M.Sc Program Co-ordinator, Department of Applied Statistics, Maulana Abul Kalam Azad University of Technology, WB.

4. BoS member of UG & PG, Department of Applied Statistics, Maulana Abul Kalam Azad University of Technology, WB.

Publications

Article published in Peer-reviewed journals:

1. (2024) "**Granger Causal networks for the identification of source and target locations of urban air pollution-A case study over south-eastern region of West Bengal**", *2024 IEEE Calcutta Conference (CALCON),* Sengupta, A., Mukherjee, I., Middya, A. I., Roy, S., DOI: 10.1109/CALCON63337.2024.10914279, ISBN 9798331516673.

2. (2024) "**Prediction of House Price using Multiple Linear Regression**", *Bodhi: A Multidisciplinary Peer Reviewed Journal,* Debnath, S., Pal, N., Singh, S., Mukherjee, I., Samanta, A., Vol. 6, Pp. 170-185, ISSN 2277-4831.

3. (2023) "**On estimation of the PDF and the CDF of the one-parameter polynomial exponential family of distributions**", *Communication in Statistics-Theory and Methods,* Mukherjee, I., Maiti, S. S. and Singh, V. V., Vol. 52(1), Pp. 104-120, **Scopus**, ISSN 1532-415X.

4. (2022) "**One-parameter polynomial exponential distribution with binomial mixture**", *REVSTAT-Statistical Journal,* Ruidas, M. K., Mukherjee, I., Choudhury, M. M., Maiti, S. S., Adhya, S., Vol. 22(2), Pp. 133-150, **Scopus**, ISSN 1645-6726.

5. (2021) "**On estimation of the probability mass function and the cumulative distribution function of a natural discrete one parameter polynomial exponential distribution**", *International Journal of Applied Mathematics and Statistics*, Mukherjee, I., Maiti, S. S. and Shanker, R., Vol. 60(3), Pp. 49-61, **Scopus**, ISSN 0973-7545.

6. (2021) "**Estimation of the PDF and the CDF of the two-parameter exponential distribution for type-II censored sample**", *Journal of Statistical Modelling: Theory and Applications,* Mukherjee, I., Maiti, S. S., Vol. 1(2), Pp. 131-151, ISSN 2716-9790.

7. (2019) "**A note on estimation of the PDF and CDF of the lognormal distribution**", *Proceedings of Institute for Mathematics, Bio-informatics, Information-technology and Computer-Science,* Mukherjee, I., Maiti, S. S., Vol. 8, Pp. 163-174, ISBN 978-81-925832-7-3.

8. (2018) "**On estimation of the PMF and CDF of the logarithmic series distribution**", *RASHI,* Mukherjee, I., Maiti, S. S. and Das, M., Vol. 3(2), Pp. 34-44, ISSN 2581 9755.

9. (2018) "**On estimation of the PDF and CDF of the Lindley distribution**", *Communications in Statistics-Simulation and Computation*, Maiti, S. S., Mukherjee, I. Vol. 47(5), Pp. 1370-1381, **Scopus**, ISSN 1532-4141.

10. (2017) "**Estimation of the PMF and CDF of some standard discrete distributions useful in reliability modelling**", *International Journal of Agricultural and Statistical Sciences*, Maiti, S. S., Mukherjee, I., Vol. 13(2), Pp. 735-751, **Scopus**, ISSN 0973-1903.

11. (2016) "**Comparison of estimators of the PDF and CDF of the Generalized Exponential Distribution**", *Proceedings of Institute for Mathematics, Bio-informatics, Information-technology and Computer-Science,* Mukherjee, I., Dey, S. and Maiti, S. S., Vol. 5, Pp. 266-281, ISBN 978-81-925832-4-2.