

Debayan Koley

ASSISTANT PROFESSOR · DEPARTMENT OF STATISTICS · FACULTY OF SCIENCE · ST. XAVIER'S UNIVERSITY, KOLKATA

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Education

Banaras Hindu University

Varanasi, UP

PHD STATISTICS

Dec 2021 - Sept 2025

- Advisor: Dr. Abhimanyu Singh Yadav
- Research area: Censoring techniques, lifetime data analysis, Bayesian inference and statistical computation
- Thesis title: *Parametric Inferences for Lifetime Models Using Censored Data*

Visva-Bharati University

Santiniketan, Birbhum, WB

MSc STATISTICS (7.24 CGPA | 72.4%)

Aug 2018 - Sept 2020

- Project advisor: Dr. Soumalya Mukhopadhyay
- Project title: *Understanding Students' Cheating Behaviors in Examinations: A Comparative Study and Analysis using Anonymous Questionnaire and Different Randomized Response Techniques*

Midnapore College (Autonomous), Vidyasagar University

Midnapore, West Medinipur, WB

BSc (HON.) STATISTICS (76.25%)

July 2015 - May 2018

- Minors in Economics and Mathematics
- Honors project advisor: Dr. Moumita Roy
- Project title: *Study of Relationship between Marital and Employment Status of Women of Different Ages of a Certain Locality*

Ramakrishna Mission Vidyabhavan, Midnapore

Midnapore, West Medinipur, WB

HIGHER SECONDARY EXAMINATION (89.4%)

July 2013 - May 2015

- West Bengal Council of Higher Secondary Education
- Subjects: Physics, Chemistry, Biology, Mathematics, English, Bengali

Ramakrishna Mission Vidyabhavan, Midnapore

Midnapore, West Medinipur, WB

SECONDARY EXAMINATION (89.4%)

July 2007 - May 2013

- West Bengal Board of Secondary Education
- Subjects: Mathematics, English, Bengali, Physical science, Life science, History, Geography

Professional Experience

January 6,

2026 - **Assistant Professor**, Department of Statistics, Faculty of Science, St. Xavier's University, Kolkata

Present

July 7,

2025 -

December

24, 2025

Adjunct Faculty, Department of Mathematical Sciences, SOBAS, Adamas University

Publications

* *corresponding author*

PUBLISHED

Chatterjee, B.*, Koley, D., & Behera, H. C. (2026). Livelihood constraints, opportunities and economic empowerment of the rural households in the dry land areas of West Bengal: A cross-sectional study. *GeoScape*, 20(1), 50-61.

Yadav, A. S., Shukla, S., Saha, M., Koley, D.*, & Jaiswal, N. (2025). On progressively type-II censored inverse Lomax distribution: Characterizations, estimation and application to cancer data. *REVSTAT-Statistical Journal*, 23(5-Special Edition), 544-568.

Koley, D., Dey, S., & Yadav, A. S.* (2025). Some Characterizations of Log-Cauchy Distribution and Its Inferential Exploration Under Progressive First-Failure Censoring Scheme. *Quality and Reliability Engineering International*, 41(8), 3717-3735.

Yadav, A. S., Shukla, S., Jaiswal, N., Singh, S. K., & Koley, D.* (2023). Development and Estimation of Weighted Xgamma Exponential Distribution with Applications to Lifetime Data. *Statistica*, 83(4), 247-269.

IN REVIEW

Statistical Inferences for the Weibull Distribution under a Generalized Adaptive Progressive First-failure Censoring Scheme.

Inferences for Generalized Rayleigh Distribution under Progressive First-failure Censoring with Binomial Removals.

On the Estimation of Weighted Xgamma Exponential Distribution under Progressive Type-II Censoring Scheme with Binomial Removals.

Awards, Fellowships, & Grants

2024 **International Travel Support**, IoE - Banaras Hindu University

2022 **Best Paper Presentation Award**, National workshop-cum-seminar, ETSAS 2022, University of Lucknow

2021-2025 **UGC Non-NET Fellowship**, University Grant Commission

2015 - 2020 **INSPIRE Scholarship for Higher Education**, Department of Science and Technology, Government of India

Presentations

** presenting author*

CONTRIBUTED PRESENTATIONS

Debayan Koley*, Abhimanyu Singh Yadav. 2025. Statistical Inferences for Log-Cauchy Distribution under Progressive First-failure Censoring Scheme. Poster presentation: National Seminar on Methodological Challenges and Terminological Issues in the Application of Statistics (NSMCTIAS - 2025), Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi.

Debayan Koley*, Abhimanyu Singh Yadav. 2024. Some Characterizations of a Pathological Distribution as a Lifetime Model and Inferential Exploration under Progressive First-failure Censoring Scheme. Oral presentation: ELEVENTH INTERNATIONAL CALCUTTA TRIENNIAL SYMPOSIUM On Probability and Statistics, University of Calcutta, Calcutta.

Debayan Koley*, Abhimanyu Singh Yadav. 2024. Some Characterizations of a Super Heavy-tailed Distribution and Its Application in Modeling Progressively First-failure Censored Data. Poster presentation: International Workshop on Reliability Theory and Survival Analysis (IWRTSA - 2024), DST-CIMS & Department of Statistics, Banaras Hindu University, Varanasi.

Debayan Koley*, Abhimanyu Singh Yadav. 2024. Statistical Inferences for the Generalized Rayleigh Distribution under an Adaptive Progressive First-failure Censoring Scheme. Oral presentation: Second International Conference on Mathematics and Applications (ICMA - 2024), Nepal Mathematical Society, Kathmandu, Nepal.

Debayan Koley*. 2023. On progressively first-failure censored logistic exponential distribution with beta-binomial removals. Oral presentation: National workshop/conference (IASTRM), H.N.B. Garhwal university, Srinagar Garhwal, Uttarakhand.

Abhimanyu Singh Yadav, Debayan Koley*. 2023. On progressively first-failure censored generalized Rayleigh with binomial removals: Application to Nigerian Breast Cancer Data. 2023. Oral presentation: International conference (SSCA - SSSES 2023), Jammu university, Jammu.

Abhimanyu Singh Yadav, Shivanshi Shukla, Debayan Koley*. 2022. Parametric Inference of Weighted Xgamma Exponential Distribution Under Progressive Type -II Censoring Scheme with Application to Lifetime Data. Oral presentation: National workshop-cum-seminar (ETSAS 2022), Lucknow University, Lucknow, UP.

Teaching Experience _____

06.01.2026	Design of Experiments, Python Programming, Statistical Inference, Statistical Analysis of Big Data, Econometrics, Sampling Distribution, Advanced Data Analytic Techniques,	SXUK
- Present	Bayesian Inference, Statistical Learning, R programming, M.Sc. Statistics, B.Sc. Economics, B.Sc. Statistics and Data Science	
07.07.2025	Engineering Mathematics, Design of Experiments, Python Programming, B.Tech.	Adamas University
-	(Computer Science & Engineering, Biotechnology), M.Sc. (Applied Statistics and Data Science), B.Sc. (SEC course)	
24.12.2025		DST-CIMS,
09.08.2023		Banaras
-	Probability and Statistics, B.Voc. Computer Application	Hindu
29.01.2024		University

Outreach & Professional Development _____

SERVICE AND OUTREACH

17.04.2026	Workshop on From Data to Decisions: Correlation, Regression and Inference, Resource Person	Loreto College, Kolkata
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DEVELOPMENT

High-End workshop (KARYASHALA) on Advanced Statistical and Machine Learning Models sponsored by SERB, Govt of India and organized by Department of Electronics Engineering, IIT(BHU) from 22-28 august, 2022

This workshop covered the theoretical and applied aspects of various statistical and machine learning models in broad areas of IoT and healthcare. This workshop polished my technical concepts on convex optimization problems and different machine learning prerequisites, which I have rigorously used in my professional work.

DIPLOMA CERTIFICATES

Diploma in Information Technology Application (DITA)

Duration: 12 months

Certificate issuance date: 21/02/2017

Organization: Youth Computer Training Centre, Government of West Bengal

PEER REVIEW

Computational Statistics, Quality Technology and Quantitative Management, Communications in Statistics - Theory and Methods, Life Cycle Reliability and Safety Engineering

Additional informations _____

TECHNICAL SKILLS

• $\text{\LaTeX}$ • R Studio • R Shiny • R Package Development • MS Office • SPSS • Python

LANGUAGE

Bengali : Native proficiency

English : Professional working proficiency in reading, writing and speaking

Hindi : Elementary proficiency in reading and writing, professional working proficiency in speaking

REFERENCES

1. Prof. Sudhansu Sekhar Maiti (Professor and Head), Department of Statistics, Visva-Bharati University, Bolpur Santiniketan - 731235.
Mail: sudhansu.maiti@gmail.com, Phone: +918918330348
2. Dr. Abhimanyu Singh Yadav (Assistant Professor), Department of Statistics, Banaras Hindu University, Varanasi - 221005.
Mail: abhistats@bhu.ac.in, Phone: +919506395612
3. Dr. Vikas Kumar Sharma (Assistant Professor), Department of Statistics, Banaras Hindu University, Varanasi - 221005.
Mail: vksharma@bhu.ac.in, Phone: +918890150517