

Arijit Dey | Curriculum Vitae

Second Year Graduate Student in Statistics – Duke University

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Education

Duke University

Ph.D. in Statistics, GPA: 3.837/4

Durham, USA

2024–Present

Indian Institute of Technology Kanpur (IITK)

M.Sc. in Statistics, CPI: 9.55/10

Kanpur, India

2022–2024

Ramakrishna Mission Residential College (Autonomous), Narendrapur

B.Sc. in Statistics, CGPA: 9.58/10

Kolkata, India

2019–2022

Publications

Peer-reviewed

- Dey, A. and Hazra, A. (2025). A Semiparametric Generalized Exponential Regression Model with a Principled Distance-based Prior. *Statistical Papers*. [Link](#)

Submitted

- Dey, A., Yan, X., and Chakraborty, B. (2025+). Sample size calculation of SMART design with a skewed outcome: Application to the SMART+ study. Submitted in Statistical Methods in Medical Research.

Experiences

○ Teaching Assistant, Duke University

- STA199: Grading, Holding Office Hours, Lab Leader Spring 25
- STA199: Grading, Holding Office Hours, Lab Leader Fall 25
- STA199: Grading, Holding Office Hours, Lab Leader Spring 26

○ Research Assistant, IIT Kanpur

Spring 24

○ Teaching Assistant, Online Degree Program, IIT Madras

Summer 23

Acedemic Achievements

- *N. Balakrishnan Award in Statistics* for the best final-year M.Sc. (2-year) statistics student, IIT Kanpur.
- *Academic Excellence Award* in Statistics for 2022 and 2023, IIT Kanpur.
- All India Rank 15 in Joint Admission Test for Masters (JAM) 2022 among 2912 candidates.
- *Swami Lokeswarananda award* for best all-around performances in U.G. courses 2021-22.
- *DST-inspire scholarship* for being in the top 1 percentile of higher secondary board exams.

Relevant Coursework

○ PhD Level Course (Duke University)

Bayesian Statistical Modelling, Probability and Measure Theory, Linear Models, Statistical Inference, Probability and Statistical Models, High-dimensional Statistics.

○ Masters Level Course (IIT Kanpur)

Linear Algebra, Real Analysis, Complex Analysis, Probability and Measure Theory, Statistical Inference, Regression Analysis, Time Series Analysis, Multivariate Analysis, Stochastic Process, Statistical Computing, Non-parametric Inference, Game Theory, Data Science Lab I, II & III, Intro to Machine Learning.

Skills

Programming Expertise: *R* (Proficient), *Python*

System software: L^AT_EX, GitHub, Microsoft Office

Languages: English (Professional), Bengali (Native), Hindi (Limited), Spanish (Beginner)

Extra Curricular

Positions of Responsibility:

- Secretary of *Raktarpan*, a club under *IITK* with the responsibility of organizing blood donation camps.
- General Secretary of the *Student's Council*, RKMRC Narendrapur, 2021-22.
- Convenor of the *Sports Subcommittee*, RKMRC Narendrapur, 2021-22.
- Junior Under Officer (JUO), *NCC wing* of RKMRC Narendrapur, 2021-22.

Sports: Active participation in games including Cricket, Football, and Volleyball.