Arghya Mukherjee

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Research Interests

Spatial Statistics, Bayesian Nonparametrics, Markov Chain Monte Carlo, Statistical Machine Learning.

Education

2020	M.Sc. in Statistics, University of Calcutta	72.50%
2018	B.Sc. in Statistics, University of Calcutta	72.38%
2015	Higher Secondary, Hare School (WBCHSE)	91.60%
2013	Secondary Exam, Hare School (WBBSE)	90.86%

Research and Professional Experience

Senior Research Fellow, IIT Kanpur   Dec 2021 – Present
Working on Bayesian Nonparametrics and MCMC methods. CGPA: 8.78.

Statistical Trainee, ISI Kolkata   Dec 2020 – Dec 2021

Associate Fellow, Vidhi Legal Policy   Aug 2021 – Dec 2021
Advised on survey design and statistical modeling for policy research (23+ projects).

Summer Intern, IUCAA, Pune   Jun – Aug 2019
Project: *Detection Algorithm for Anisotropic Stochastic Wave Background*
Supervisor: Prof. Sanjit Mitra

Teaching Experience

Teaching Assistant, Department of Mathematics and Statistics, IIT Kanpur   2022-

- MTH422: Introduction to Bayesian Analysis (Lab instructor) (Winter-2026, 2025).
- MTH441: Linear regression and ANOVA (Lab instructor).
- MTH441: Introduction to Time Series Analysis (Lab instructor).
- MTH209: Data Science Lab-2 (Lab instructor).
- MTH208: Data Science Lab-1.

Preprints

- Mukherjee, A., Vats, D.- *Hamiltonian Monte Carlo for (Physics) Dummies (2026).*
- Mukherjee, A., Hazra, A., Vats, D.- *Scalable Bayesian inference for high-dimensional mixed-type multivariate spatial data (2025).*

Awards

Junior travel award - Bayes Comp-2025, Singapore (sponsored by the Bayesian Computation Section, ISBA.)

2nd Prize, Best Paper – International Conference on Recent Advancements in the Techniques of Bayesian Paradigm, Banaras Hindu University (2025).

1st Prize, Poster – National Seminar on Sample Survey, University of Calcutta (2019).

Honors and Programs

INSPIRE Scholar (2015–2020), Department of Science and Technology, Government of India.

Student Internships:

- MTUSS 2016 – National Board of Higher Mathematics, Government of India.
- DST-INSPIRE Science Camp, Department of Science and Technology, Government of India (2013).