## Faculty Profile(RR)

Name: Rahul Roy

Designation: Assistant Professor.

Department: Department of Statistics.
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## Qualification:

- B.Sc.(Hons.) in Statistics, Ramakrishna Mission Residential College (Autonomous), Narendrapur (2016).
- M.Stat, Indian Statistical Institute (2018).
- Pursuing Ph.D. in Statistics form Indian Statistical Institute (Since 2018).

Doctoral Research Topic: (in preparation) "Large-scale sequential and non-sequential multiple testing."

## Teaching Experience:

- Assisted Professor Subir Kumar Bhandari in Theory of Games and Statistical Decision for M.Stat. 2nd year in spring 2021 (ISI Kolkata).
- Assisted Professor Subir Kumar Bhandari in Time Series Analysis for M.Stat. 2nd year in fall 2021 (ISI Kolkata).
- Assisted Professor Subir Kumar Bhandari in Theory of Games and Statistical Decision for M.Stat. 2nd year in spring 2022 (ISI Kolkata).
- Assisted Professor Debasis Sebgupta in Multiple Linear Regression for PGDSA course (jointly organized by ISI and Coursera) in spring 2023.
- Currently teaching at the Department of Statistics of St. Xavier's College (Autonomous), Kolkata, since July 2023.


## Research Interests:

- Multiple Testing.
- Sequential Testing.
- Multivariate Analysis.
- Machine Learning.


## Publications:

1. Roy, R., \& Bhandari, S. K. (2024). Asymptotic Bayes' optimality under sparsity for exchangeable dependent multivariate normal test statistics. Statistics \& Probability Letters, 207, 110030.

## Manuscripts in Preparation:

- Roy, R., De, S. K., \& Bhandari, S. K. (2023). Large-scale adaptive multiple testing for sequential data controlling false discovery and nondiscovery rates. arXiv preprint arXiv:2306.05315.


## Participation in conference:

- Participated and delivered a contributory lecture on "Asymptotic bayes optimality under sparsity for equicorrelated multivariate normal test statistics" in a conference organized by International Indian Statistical Association (IISA) at IISC Bangalore, in December, 2022.

