Priyanka Sen

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Phone: +91 9674265215
Nationality: Indian
Place of Birth: Kolkata, West Bengal
Date of Birth: April 22, 1993

Education

Institute Post doctoral Fellow in MATHEMATICS — September 2023 – September 2025
Advisor: Dr. Monika Bhattacharjee — Indian Institute of Technology Bombay

PhD in MATHEMATICS — July 2017 – September 2023
Advisor: Dr. Arup Bose — Indian Statistical Institute, Kolkata

Master of Science in MATHEMATICS — July 2015 – June 2017
Percentage of Marks: 87.3 — Indian Institute of Technology, Guwahati

Bachelor of Science in MATHEMATICS — July 2011 – June 2014
Percentage of Marks: 69.13 — St. Xavier's College, Kolkata

Higher Secondary (Science) — July 2009 – June 2011
Percentage of Marks: 86 — Nava Nalanda High School, Kolkata

Madhyamik (Secondary) — June 2009
Percentage of Marks: 85.3 — Shri Shikshayatan School, Kolkata

Scholarships and Awards

National Higher Board of Mathematics PhD Scholarship — June 2017

Institute Silver Medal, Indian Institute of Technology, Guwahati — June 2017
for securing the highest C.P.I.

The Jadav Prasad Chaliha Award for Academic Excellence — August 2016

National Board of Higher Mathematics MSc Scholarship — December 2015

West Bengal Government Merit-cum-Means Scholarship Scheme — November 2011
for the Under Graduate Level

Other Academic Achievements

Qualified University Grants Commission's National Eligibility Test — June 2017
Rank-71

Qualified Graduate Aptitude Test in Engineering (GATE) — March 2017
Rank-116

Qualified the Council of Scientific and Industrial Research's National Eligibility Test — December 2016
Rank-46

Research

Accepted or published articles

Some patterned matrices with independent entries — 2021
Random Matrices: Theory and Application, https://doi.org/10.1142/S2010326321500301

Co-authors: Arup Bose and Koushik Saha

Random matrices with independent entries: beyond non-crossing partitions 2022
Random Matrices: Theory and Application, https://doi.org/10.1142/S2010326322500216

Co-authors: Arup Bose, Koushik Saha and Arusharka Sen

XX^T matrices with independent entries 2023
ALEA Lat. Am. J. Probab. Math. Stat., https://doi.org/10.30757/alea.v20-05

Co-author: Arup Bose

Ongoing work

Large sample behaviour of high-dimensional Kendall's correlation matrices with dependence

Co-author: Monika Bhattacharjee

Workshops/Conferences Attended

EcoSta Conference August 21- 23, 2025
Waseda University, Tokyo

Recent Advances in Probability and Statistics January 01- 05, 2025
Indian Institute of Technology Bombay

Indian Women in Mathematics Annual Conference July 11- 13, 2024
BITS Pilani, K K Birla Goa Campus

Two Random Days in Probability and Statistics August 09- 10, 2023
Indian Statistical Institute, Kolkata

CMStatistics 2022 hybrid conference December 17- 19, 2021

Bernoulli-IMS 10th World Congress in Probability and Statistics July 19- 23, 2021
Virtual Congress

Lectures in Probability and Stochastic Processes XIV December 2- 6, 2019
Indian Statistical Institute, Delhi

Two Random Days in Probability and Statistics April 25- 26, 2019
Indian Statistical Institute, Kolkata

Lectures in Probability and Stochastic Processes XIII December 7- 11, 2018
Indian Statistical Institute, Bangalore

Visiting Students' Research Programme June 6- July 6, 2016
Tata Institute of Fundamental Research, Mumbai

Invited Talks

Title: Random matrices with independent entries: beyond non-crossing partitions July 12, 2024
BITS Pilani, K K Birla Goa Campus

Title: Random matrices with independent entries: beyond non-crossing partitions December 19, 2021
CMStatistics 2022 hybrid conference

Teaching Experience

Teaching Assistant for the course Regression Analysis January 2025 - May 2025
Audience: Students of MSc (Stat) 1st year, IIT, Bombay

Teacher: Dr. Monika Bhattacharjee

Teaching Assistant for the course Probability II July 2024 - December 2024
Audience: Students of MSc (Stat) 1st year, IIT, Bombay

Teacher: Dr. Ayan Bhattacharya

Teaching Assistant for the course Nonparametric Statistics January 2024 - May 2024
Audience: Students of MSc (Stat) 2nd year, IIT, Bombay

Teacher: Dr. Ayan Bhattacharya

Teaching Assistant for the course Probability II September 2023 - December 2023
Audience: Students of MSc (Stat) 1st year, IIT, Bombay

Teacher: Dr. Ayan Bhattacharya

Teaching Assistant at AISSP at NISER Bhubaneswar June 2023 - July 2023

Teaching Assistant for the course Stochastic Processes September 2021 - January 2022

Teacher: Dr. Anish Sarkar Audience: Students of M.Stat 1st year, ISI, Kolkata

Teaching Assistant for the course Probability Theory I December 2020 - March 2021
Audience: Students of B.Stat 1st year, ISI, Kolkata

Teacher: Dr. Krishanu Maulik

Teaching Assistant for the course Probability Theory III July - December, 2019
Audience: Students of B.Stat 2nd year, ISI, Kolkata

Teacher: Dr. Krishanu Maulik

SKILLS

Languages: Bengali (Native), English (Fluent), Hindi (Fluent)
Programming: C, C++, R
Document Creation: Microsoft Office Suite, LaTex

PERSONAL INTERESTS

Painting, Reading, Writing, Music, Hiking, Interior Design