

Anirban Chatterjee

Curriculum Vitae

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Education

- 2020–present **Ph.D.**, Department of Statistics and Data Science, The Wharton School, University of Pennsylvania, Philadelphia, United States.
Advisor: Prof. Bhaswar B. Bhattacharya
- 2018–2020 **Master of Statistics**, Indian Statistical Institute, Kolkata, India.
First Division with Distinction, Specialization: Probability
- 2015–2018 **Bachelor of Statistics**, Indian Statistical Institute, Kolkata, India.
First Division with Distinction

Publications

Journal Articles

- 2023 Bhaswar B Bhattacharya, **Anirban Chatterjee**, and Svante Janson. Fluctuations of subgraph counts in graphon based random graphs. *Combinatorics, Probability and Computing*, 2023.
- 2022 **Anirban Chatterjee** and Rajat Subhra Hazra. Spectral properties for the Laplacian of a generalized Wigner matrix. *Random Matrices: Theory and Applications*, 2022.

Preprints

- 2023 **Anirban Chatterjee** and Bhaswar B Bhattacharya. Boosting the Power of Kernel Two-Sample Tests. *arXiv e-prints*, 2023. (Revision requested at Biometrika).
- 2022 **Anirban Chatterjee**, Sagnik Nandy, and Ritwik Sadhu. Clustering Network Vertices in Sparse Contextual Multilayer Networks. *arXiv e-prints*, 2022.

Ongoing Projects

- 2023+ *A Nearest Neighbour Approach To Testing for Calibration.*
Joint work with: Bhaswar B. Bhattacharya, Ziang Niu
- 2023+ *Differentially Private Estimation in Ising Models.*
Joint work with: Abhinav Chakraborty and Abhinandan Dalal
- 2023+ *Difference in Difference method analysis using Quadruple Matching.*
Joint work with: Bhaswar B. Bhattacharya, Siyu Heng, Hannah A. Jin, Bikram Karmakar and Dylan Small
- 2023+ *Higher Order Graphon Theory: Fluctuations and Inference.*
Joint work with: Bhaswar B. Bhattacharya and Soham Dan
- 2023+ *Fluctuations of the Largest Eigenvalue in Graphon Based Random Graphs.*
Joint work with: Jiaoyang Huang

2023+ *Asymptotics of Pattern Density in Random Permutations.*
Joint work with: Bhaswar B. Bhattacharya, Sayan Das, Sumit Mukherjee

Research Internship

2019 *Optimal Transport in Minimax Estimation and Dimension Reduction, Columbia University in the City of New York.*

Advisor : **Dr. Bodhisattva Sen**, *Department of Statistics, Columbia University, New York, USA*

Industry Experience

2017 *Form and Performance Analytics for Large Scale Online Assessments.*

Position : Project team member, TCS ion

Professional Service

2022-present **Reviewer for Journals.**

Journal of the American Statistical Association, Biometrika, Bernoulli.

Presentation

2023 *Joint Statistical Meeting, Toronto, Canada.*

Topic: Clustering Network Vertices in Sparse Contextual Multilayer Networks.

2023 *ASU Seminar, Indian Statistical Institute, Kolkata, India.*

Topic: Higher Order Graphon Theory: Fluctuations and Inference.

2022 *IMS Annual Meeting, London, UK.*

Topic: Fluctuations of Subgraph counts in Graphon based Random Graphs.

2020 *P.C.M. Gold Medal Presentation, Indian Statistical Institute, Kolkata, India.*

Topic: Graphon Estimation.

Programming Languages

R, Python, C

Teaching and Mentoring

2023 *Teaching Assistant, The Wharton School, University of Pennsylvania.*

STAT 432 - Mathematical Statistics

2022 *Teaching Assistant, The Wharton School, University of Pennsylvania.*

STAT 961 - Statistical Methodology

STAT 432 - Mathematical Statistics

2022 *Undergraduate Research in Probability and Statistics, University of Pennsylvania.*

Position: Graduate Mentor

Topic: Inhomogeneous W-random Graphs

Fellowships & Awards

2016 – 2020 *Dean's List for Toppers* at Indian Statistical Institute, Kolkata