

# Anirban Chatterjee

## Curriculum Vitae

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🐙 Github   in LinkedIn

## 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

GPA: 4.00

2018–2020 **Master of Statistics**, Indian Statistical Institute, Kolkata, India.

Specialization: Probability

Total Percentage Score : 91.6%

2015–2018 **Bachelor of Statistics**, Indian Statistical Institute, Kolkata, India.

Total Percentage Score : 85.03%

## 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+ *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