

# 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:** Dr. Bhaswar B. Bhattacharya  
GPA: 4.00  
Expected Graduation: May 2025
- 2018–2020 : **Master of Statistics**, *Indian Statistical Institute*, Kolkata, India.  
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*, volume 32, pages 428–464. Cambridge University Press, 2023.
- 2022 **Anirban Chatterjee** and Rajat Subhra Hazra. Spectral properties for the Laplacian of a generalized Wigner matrix. *Random Matrices: Theory and Applications*, volume 11, page 2250026. World Scientific, 2022.

#### Preprints

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

### Ongoing Projects

- 2023+ **Higher Order Graphon Theory: Fluctuations and Inference.**  
Joint work with: Bhaswar B. Bhattacharya and Soham Dan
- 2023+ **Differentially Private Estimation in Ising Models.**  
Joint work with: Abhinav Chakraborty and Abhinandan Dalal
- 2023+ **A Nearest Neighbour Approach To Conditional Two Sample Test.**  
Joint work with: Bhaswar B. Bhattacharya, Ziang Niu
- 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

## Industry Experience

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

Position: Project team member, TCS ion

## 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. Mahalanobis 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, Philadelphia, USA.  
STAT 432 - Mathematical Statistics

2022 ***Teaching Assistant***, The Wharton School, University of Pennsylvania, Philadelphia, USA.  
STAT 961 - Statistical Methodology  
STAT 432 - Mathematical Statistics

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

Position: Graduate Mentor

Topic: Inhomogeneous W-random Graphs

## Fellowships & Awards

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