

Anirban Chatterjee

Curriculum Vitae

Room: 308, 265 South 37th Street
Philadelphia, PA 19104
☎ (+1) 267-934-6668
✉ anirbanc@wharton.upenn.edu
📄 anirbanc96.github.io/main/

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*, 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 Testing for Calibration.***
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

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