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## Employment

**William H. Kruskal Instructor**, *Department of Statistics, The University of Chicago.*  
*Chicago, Illinois, United States.*  
*August 2025-present.*

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## Education

**Ph.D. in Statistics**, *The Wharton School, University of Pennsylvania, Philadelphia, United States.*  
*Graduated: 2025.*

Advisor: Bhaswar B. Bhattacharya.

**Master of Statistics**, *Indian Statistical Institute, Kolkata, India.*

*Graduated: 2020.*

First Division with Distinction, Specialization: Probability.

**Bachelor of Statistics (Hons.)**, *Indian Statistical Institute, Kolkata, India.*

*Graduated: 2018.*

First Division with Distinction.

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## Publications

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### Journal Publications

- **Anirban Chatterjee**, Jiaoyang Huang. Fluctuation of the Largest Eigenvalue of a Kernel Matrix with application in Graphon-based Random Graphs. *The Annals of Applied Probability*, Volume 35, No. 6, 4244-4281, 2025.
- **Anirban Chatterjee**, Bhaswar B. Bhattacharya. Boosting the Power of Kernel Two-Sample Tests. *Biometrika*, Volume 112, Issue 1, 2025.
- **Anirban Chatterjee**, Sagnik Nandy, Ritwik Sadhu. Detecting Planted Partition in Sparse Multilayer Networks. *Information and Inference: A Journal of the IMA*, Volume 13, Issue 3, 2024.
- Bhaswar B. Bhattacharya, **Anirban Chatterjee**, Svante Janson. Fluctuations of Subgraph Counts in Graphon based Random Graphs. *Combinatorics, Probability and Computing*, Volume 32, Issue 3, 2023.
- **Anirban Chatterjee**, Rajat Subhra Hazra. Spectral Properties for the Laplacian of a Generalized Wigner matrix. *Random Matrices: Theory and Applications*, Volume 11, No. 03, 2022.

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### Conference Publications

- Abhinav Chakraborty, **Anirban Chatterjee**, Abhinandan Dalal. PrIsing: Privacy-Preserving Peer Effect Estimation via Ising Model. *In Proceedings of The 27th International Conference on Artificial Intelligence and Statistics (AISTATS)*, PMLR 238:2692-2700, 2024.

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### Preprints

- **Anirban Chatterjee**, Aaditya Ramdas. A Martingale Kernel Two-Sample Test. *arXiv:2510.11853*, 2025.

- **Anirban Chatterjee**, Sayantan Choudhury, Rohan Hore. One-shot Conditional Sampling: MMD meets Nearest Neighbors. *arXiv:2509.25507*, 2025.
- **Anirban Chatterjee**, Ziang Niu, Bhaswar B. Bhattacharya. A Kernel-Based Conditional Two-Sample Test Using Nearest Neighbors (with Applications to Calibration, Regression Curves, and Simulation-Based Inference). *arXiv:2407.16550*, 2024.
- **Anirban Chatterjee**, Soham Dan, Bhaswar B. Bhattacharya. Higher-Order Graphon Theory: Fluctuations, Degeneracies, and Inference. *arXiv:2404.13822*, 2024 (Major revision at *The Annals of Statistics*).

## Teaching and Mentoring

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

- Fall 2023 - Mathematical Statistics (STAT 4320).
- Fall 2022 - Statistical Methodology (STAT 9610).
- Spring 2022 - Mathematical Statistics (STAT 432).

**Graduate Mentor**, *Undergraduate Research in Probability and Statistics (URPS)*, University of Pennsylvania, 2022.

## Awards & Honors

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- **Best Student Paper Award in Probability and Theory of Statistics & Data Science**, International Indian Statistical Association, 2024.
- **J. Parker Bursk Award for Excellence in Research**, University of Pennsylvania, 2024.
- **George James Term Fund for The Bernoulli-IMS 11th World Congress in Probability and Statistics**, University of Pennsylvania, 2024.
- **Nominated for the Lawrence D. Brown Student Paper Award**, University of Pennsylvania, 2023.
- **George James Term Fund for the Joint Statistical Meetings**, University of Pennsylvania, 2023.
- **Nominated for the Prasanta Chandra Mahalanobis Gold Medal**, Indian Statistical Institute, 2020.
- **Dean's List for Toppers**, Indian Statistical Institute, 2016 – 2020.

## Industry Experience

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**Project Team Member**, TCS ion, *Form and Performance Analytics for Large Scale Online Assessments*, 2017.

- Collaborated with a multidisciplinary team to design and implement performance analytics for large-scale online assessment platforms used by educational institutions.
- Conducted in-depth statistical analysis on assessment data, identifying key metrics to evaluate student performance across various parameters.
- Presented findings and insights to senior management, contributing to strategic decisions on improving efficacy of online assessments.

## Professional Service

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- Reviewer for journals: *The Annals of Statistics*, *Journal of the Royal Statistical Society: Series B*, *Journal of the American Statistical Association*, *Biometrika*, *The Annals of Applied Probability*, *Information and*

*Inference: A Journal of the IMA, Bernoulli, Stochastic Processes and their Applications, Annales de l'Institut Henri Poincaré, Journal of Business and Economic Statistics.*

## Technical Skills

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- **Programming Languages:** R, Python.
- **Tools and Software:** LaTeX.

## Conferences & Workshops

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**Workshop on Uncertainty Quantification and Reliability, IDEAL Special Program on High Dimensional and Complex Data Analysis, Evanston, USA, 2025.**

- Topic: Detecting Miscalibration: A Nearest Neighbor Approach.

**Annual Conference of International Indian Statistical Association, Cochin, India, 2024.**

- Topic: Higher Order Graphon Theory: Fluctuations and Inference.

**Bernoulli-IMS 11th World Congress in Probability and Statistics, Bochum, Germany, 2024.**

- Topic: Higher Order Graphon Theory: Fluctuations and Inference.

**ICSA-Canada Chapter 2024 Symposium Niagara Falls, Canada, 2024.**

- Topic: Higher Order Graphon Theory: Fluctuations and Inference.

**Lawrence D. Brown Student Workshop, University of Pennsylvania, Philadelphia, USA, 2023.**

- Topic: Higher Order Graphon Theory: Fluctuations and Inference.

**Joint Statistical Meeting, Toronto, Canada, 2023.**

- Topic: Clustering Network Vertices in Sparse Contextual Multilayer Networks.

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

- Topic: Higher Order Graphon Theory: Fluctuations and Inference.

**IMS Annual Meeting, London, UK, 2022.**

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

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

- Topic: Graphon Estimation.