Aditya Ghosh – Curriculum Vitae

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CONTACT DETAILS

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EDUCATION

Ph.D. in Statistics, **Stanford University** 2022 - present

Masters of Statistics (M.Stat), **Indian Statistical Institute**, Kolkata 2020 - 2022

- **Dissertation advisor:** Prof. Bodhisattva Sen (Columbia University)
- **Specialization:** Theoretical statistics

Bachelor of Statistics (B.Stat), **Indian Statistical Institute**, Kolkata 2017 - 2020

RESEARCH

Broadly interested in theoretical statistics and applied probability; particularly in causal inference, nonparametric methods, random graphs, random matrices and their applications in statistics.

1. **Ghosh, A.**, Deb, N., Karmakar, B., & Sen, B. (2021+). Efficiency and Robustness of Regression (Un)-Adjusted Rosenbaum's Rank-based Estimator in Randomized Experiments. *Submitted.* (Preprint available at https://arxiv.org/abs/2111.15524)
2. **Ghosh, A.** (2019). An asymptotic formula for the Chebyshev theta function. *Notes on Number Theory and Discrete Mathematics*, 25(4), 1-7. (Journal link)

SOFTWARE

R (proficient), Python (basic), LaTeX(proficient)

TALKS

- **PCM Memorial Lecture**, Indian Statistical Institute, Kolkata Summer 2022
  Title: The synthetic control method in causal inference
- **D. Basu Memorial Lecture**, Indian Statistical Institute, Kolkata Fall 2021
  Title: Large low-rank matrix completion
- **Online Reading Group on Functional Data Analysis** Summer 2021
  Title: Two-sample testing of the equality of mean functions
- **Students' Learning Seminar**, Indian Statistical Institute, Kolkata Spring 2021
  Title: Matching estimators in causal inference

AWARDS

Recognitions from the Indian Statistical Institute

- **ISIAA – J. K. Ghosh Memorial Gold Medal** (outstanding performance in M.Stat) 2023
- **ISIAA – Mrs. M. R. Iyer Memorial Gold Medal** (best overall performance in B.Stat) 2021
- **Nikhilesh Bhattacharyya Memorial Gold Medal** (best performance in Statistics in B.Stat) 2021

Other achievements

- **Madhava Mathematics Competition**, earned invitation to a renowned camp 2019, 2018
- **Indian National Mathematical Olympiad (INMO)**, received a **certificate of merit** from NBHM, Govt. of India (awarded to the top 75 participants in the country) 2016

TEACHING

Teaching Assistant (TA), **Stanford University**

- STATS 202: Data Mining and Analysis. Summer 2023, Fall 2022
- STATS 216: Introduction to Statistical Learning. Winter 2023

Other experiences

- Trained numerous high-school students for mathematical olympiads, entrance examinations of Indian Statistical Institute, Chennai Mathematical Institute, and other competitive exams.