Aditya Ghosh – Curriculum Vitae

CONTACT DETAILS

Email: ghoshadi@stanford.edu
Phone: +1 (650) 382 7711

ADDRESS

Department of Statistics, Stanford University
390 Jane Stanford Way, Sequoia Hall
Stanford, CA 94305

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)

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

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.

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

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