

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 GPA 4.13 2022 – present Masters of Statistics (M.Stat), Indian Statistical Institute, Kolkata 2020 – 2022 <ul style="list-style-type: none"> • 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. <ol style="list-style-type: none"> 2. Ghosh, A., Deb, N., Karmakar, B., & Sen, B. (2021+). Efficiency and Robustness of Regression (Un)-Adjusted Rosenbaum’s Rank-based Estimator in Randomized Experiments. <i>Submitted</i>. ↗ 1. Ghosh, A. (2019). An asymptotic formula for the Chebyshev theta function. <i>Notes on Number Theory and Discrete Mathematics</i>, 25(4), 1-7. ↗ 	
INVITED TALKS	<ul style="list-style-type: none"> • Computational and Methodological Statistics, HTW Berlin, University of Applied Sciences, Berlin, Germany 2023 Title: Efficiency and robustness of Rosenbaum’s regression (un)-adjusted rank-based estimator in randomized experiments • PCM Memorial Lecture, Indian Statistical Institute, Kolkata 2022 Title: The synthetic control method in causal inference • D. Basu Memorial Lecture, Indian Statistical Institute, Kolkata 2021 Title: Large low-rank matrix completion • Online Reading Group on Functional Data Analysis ↗ 2021 Title: Two-sample testing of the equality of mean functions • Students’ Learning Seminar, Indian Statistical Institute, Kolkata 2021 Title: Matching estimators in causal inference 	
TEACHING	Teaching Assistant (TA), Stanford University ExploreCourses ↗ <ul style="list-style-type: none"> • Stats 310B/Math 230B: Theory of Probability II. Winter 2023 • Stats 310A/Math 230A: Theory of Probability I. Fall 2023 • Stats 216: Introduction to Statistical Learning. Winter 2022 • Stats 202: Data Mining and Analysis. Summer 2023, Fall 2022 Other experiences <ul style="list-style-type: none"> • Trained numerous high school students for mathematical olympiads, entrance examinations of Indian Statistical Institute, Chennai Mathematical Institute, and other competitive exams. • Maintained a blog (ghoshadi.wordpress.com) aimed at helping high-school students prepare for Mathematical Olympiads and similar competitions. 	

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

OLDER PROJECTS & INTERNSHIPS

- **Rank and matching based methods in causal inference** 2021
- **Analyzing a lower back pain data** with classmates Anik Burman and Soham Das 2020
- **On Age-dependent branching processes with/without immigration** with classmates Wribhu Banik and Shouvik Middey 2020
- **Finding anomalies in a coal quality data of Coal India Limited** with classmates Soham Das and Arjama Das 2020
- **Typical distance between two randomly selected vertices of a Erdős-Rényi binomial random graph** with classmate Sayak Chatterjee 2020
- **Method of moments in random matrix theory** 2019
- **Summer Internship in Cryptology**, at the **R. C. Bose Centre for Cryptology and Security**, **Indian Statistical Institute**, Kolkata 2019