

CONTACT DETAILS	Email: ghoshadi@stanford.edu Phone: +1 (650) 382 7711 Webpage: ghoshadi.github.io	ADDRESS	Computing and Data Science (CoDa) 389 Jane Stanford Way, Stanford University Stanford, CA 94305
EDUCATION	Ph.D. in Statistics, Stanford University GPA 4.13 <ul style="list-style-type: none">Advised by Stefan Wager (Stanford GSB) & Dominik Rothenhäusler (Stanford Statistics) Masters of Statistics (M.Stat), Indian Statistical Institute, Kolkata <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		2022 – present 2020 – 2022 2017 – 2020
RESEARCH	My current research spans causal inference, statistical learning, and optimization. I am working on policy evaluation in dynamical systems (with Stefan Wager), and distribution shift (with Dominik Rothenhäusler). <ol style="list-style-type: none">Ghosh, A. & Rothenhäusler, D. (2025). Assumption-robust Causal Inference. arXiv:2505.08729 ↗Ghosh, A., Imbens, G. & Wager, S. (2025). PLRD: Partially Linear Regression Discontinuity Inference. arXiv:2503.09907 ↗Ghosh, A., Deb, N., Karmakar, B., & Sen, B. (2022+). Efficiency and Robustness of Rosenbaum's Rank-based Estimator in Randomized Experiments. <i>Submitted.</i> ↗Ghosh, A. (2019). An asymptotic formula for the Chebyshev theta function. <i>Notes on Number Theory and Discrete Mathematics</i>, 25(4), 1-7. Journal link ↗ I currently help organize the Online Causal Inference Seminar .		
INVITED TALKS	<ul style="list-style-type: none">Joint Statistical Meeting, Nashville, Tennessee Session: Regression Discontinuity Designs with Complex DataIndustrial Affiliates Annual Conference, Stanford University Title: Practical bias-aware inference in regression discontinuity designs: An asymptotic viewStanford Causal Science Center Conference, Stanford University Title: Asymptotic bias-aware inference in regression discontinuity designs under higher-order smoothnessComputational and Methodological Statistics, HTW Berlin, University of Applied Sciences, Berlin, Germany Title: Efficiency and robustness of Rosenbaum's regression (un)-adjusted rank-based estimator in randomized experimentsPCM Memorial Lecture, Indian Statistical Institute, Kolkata Title: The synthetic control method in causal inferenceD. Basu Memorial Lecture, Indian Statistical Institute, Kolkata Title: Large low-rank matrix completionOnline Reading Group on Functional Data Analysis ↗ Title: Two-sample testing of the equality of mean functionsStudents' Learning Seminar, Indian Statistical Institute, Kolkata Title: Matching estimators in causal inference		

TEACHING	As instructor, Stanford University ExploreCourses ↗	
	• Stats 302: Qualifying Exam Workshop (Theoretical Statistics).	Summer 2025
	• Stats 302: Qualifying Exam Workshop (Probability).	Summer 2024
	As teaching assistant, Stanford University ExploreCourses ↗	
	• Stats 60: Introduction to Statistical Methods: Precalculus.	Spring 2025
	• Stats 361: Causal Inference.	Winter 2025
	• Stats 200: Introduction to Theoretical Statistics.	Autumn 2024
	• Stats 310B/Math 230B: Theory of Probability II.	Winter 2024
	• Stats 310A/Math 230A: Theory of Probability I.	Autumn 2023
	• Stats 216: Introduction to Statistical Learning.	Winter 2023
	• Stats 202: Data Mining and Analysis.	Summer 2023, Autumn 2022
Other experiences		
	• 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
OTHER PROJECTS	• Inference for Adaptively Sampled Data via REINFORCE with Ivy Zhang	2025
	• SMARTer Multi-task Fine-tuning of BERT with Disha Ghandwani and Rahul Kanekar	2024
	• Analyzing lower back pain data with Anik Burman and Soham Das	2020
	• Age-dependent branching processes with/without immigration with Wribhu Banik and Shouvik Middey	2020
	• Finding anomalies in a coal quality data of Coal India Limited with Soham Das and Arjama Das	2020
	• Typical distance between two randomly selected vertices of a Erdős-Rényi binomial random graph with Sayak Chatterjee	2020
	• Method of moments in random matrix theory (advisor: Prof. Arijit Chakrabarty)	2019
	• Summer Internship in Cryptology , supported by Microsoft Research India, at the R. C. Bose Centre for Cryptology and Security, Indian Statistical Institute, Kolkata	2019
LANGUAGES { R , Python}, { \LaTeX , Markdown, HTML}, {English, Bengali (native), Hindi}		