

CONTACT DETAILS	Email: <a href="mailto:ghoshadi@stanford.edu">ghoshadi@stanford.edu</a> Phone: +1 (650) 382 7711 Webpage: <a href="https://ghoshadi.github.io">ghoshadi.github.io</a>	ADDRESS	Computing and Data Science (CoDa) 389 Jane Stanford Way, Stanford University Stanford, CA 94305
EDUCATION	Ph.D. in Statistics, <a href="#">Stanford University</a> GPA 4.13		2022 – present
	• Advised by Stefan Wager (Stanford GSB) & Dominik Rothenhäusler (Stanford Statistics)		
	Masters of Statistics (M.Stat), <a href="#">Indian Statistical Institute</a> , Kolkata		2020 – 2022
	• Dissertation advisor: Prof. Bodhisattva Sen (Columbia University)		
	• Specialization: Theoretical Statistics		
	Bachelor of Statistics (B.Stat), <a href="#">Indian Statistical Institute</a> , Kolkata		2017 – 2020
RESEARCH	My research spans causal inference, statistical learning, and optimization. I am currently working on policy evaluation in dynamical systems (with Stefan Wager) and distribution shift (with Dominik Rothenhäusler).		
	4. <b>Ghosh, A.</b> & Rothenhäusler, D. (2025). Assumption-robust Causal Inference. <a href="https://arxiv.org/abs/2505.08729">arXiv:2505.08729</a> ↗		
	3. <b>Ghosh, A.</b> , Imbens, G. & Wager, S. (2025). PLRD: Partially Linear Regression Discontinuity Inference. <a href="https://arxiv.org/abs/2503.09907">arXiv:2503.09907</a> ↗		
	2. <b>Ghosh, A.</b> , Deb, N., Karmakar, B., & Sen, B. (2022+). Efficiency and Robustness of Rosenbaum's Rank-based Estimator in Randomized Experiments. <i>Submitted</i> . ↗		
	1. <b>Ghosh, A.</b> (2019). An asymptotic formula for the Chebyshev theta function. <i>Notes on Number Theory and Discrete Mathematics</i> , 25(4), 1-7. <a href="#">Journal link</a> ↗		
I currently help organize the <a href="#">Online Causal Inference Seminar</a> .			
INVITED TALKS	<ul style="list-style-type: none"> <li>Joint Statistical Meeting, Nashville, Tennessee Session: Regression Discontinuity Designs with Complex Data</li> <li>Industrial Affiliates Annual Conference, Stanford University Title: Practical bias-aware inference in regression discontinuity designs: An asymptotic view</li> <li>Stanford Causal Science Center Conference, Stanford University Title: Asymptotic bias-aware inference in regression discontinuity designs under higher-order smoothness</li> <li>Computational 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 experiments</li> <li>PCM Memorial Lecture, Indian Statistical Institute, Kolkata Title: The synthetic control method in causal inference</li> <li>D. Basu Memorial Lecture, Indian Statistical Institute, Kolkata Title: Large low-rank matrix completion</li> <li>Online Reading Group on Functional Data Analysis ↗ Title: Two-sample testing of the equality of mean functions</li> <li>Students' Learning Seminar, Indian Statistical Institute, Kolkata Title: Matching estimators in causal inference</li> </ul>		2025 2024 2024 2023 2022 2021 2021

TEACHING	<b>As instructor, Stanford University</b>	<a href="#">ExploreCourses ↗</a>	
	• Stats 302: Qualifying Exam Workshop (Theoretical Statistics).		Summer 2025
	• Stats 302: Qualifying Exam Workshop (Probability).		Summer 2024
	<b>As teaching assistant, Stanford University</b>	<a href="#">ExploreCourses ↗</a>	
	• 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
	<b>Other experiences</b>		
	• Trained numerous high school students for mathematical olympiads, entrance examinations of Indian Statistical Institute, Chennai Mathematical Institute, and other competitive exams.		
	• Maintained a blog ( <a href="http://ghoshadi.wordpress.com">ghoshadi.wordpress.com</a> ) aimed at helping high-school students prepare for Mathematical Olympiads and similar competitions.		
AWARDS	<b>Recognitions from the Indian Statistical Institute</b>		
	• <b>ISIAA – J. K. Ghosh Memorial Gold Medal</b> (outstanding performance in M.Stat)		2023
	• <b>ISIAA – Mrs. M. R. Iyer Memorial Gold Medal</b> (best overall performance in B.Stat)		2021
	• <b>Nikhilesh Bhattacharyya Memorial Gold Medal</b> (best performance in Statistics in B.Stat)		2021
	<b>Others</b>		
	• <b>IISA conference 2025</b> , best poster award		2025
	• <b>Madhava Mathematics Competition</b> , received invitation to a prestigious event		2019, 2018
	• <b>Indian National Mathematical Olympiad</b> , earned a <b>certificate of merit</b> from <b>NBHM</b> , Govt. of India (awarded to the top 75 INMO participants in the country)		2016
OTHER PROJECTS			
	• <b>Inference for Adaptively Sampled Data via REINFORCE</b> with Ivy Zhang		2025
	• <b>SMARTer Multi-task Fine-tuning of BERT</b> with Disha Ghandwani and Rahul Kanekar		2024
	• <b>Analyzing lower back pain data</b> with Anik Burman and Soham Das		2020
	• <b>Age-dependent branching processes with/without immigration</b> with Wribhu Banik and Shouvik Middey		2020
	• <b>Finding anomalies in a coal quality data of Coal India Limited</b> with Soham Das and Arjama Das		2020
	• <b>Typical distance between two randomly selected vertices of a Erdős-Rényi binomial random graph</b> with Sayak Chatterjee		2020
	• <b>Method of moments in random matrix theory</b> (advisor: Prof. Arijit Chakrabarty)		2019
	• <b>Summer Internship in Cryptology</b> , supported by Microsoft Research India, at the <b>R. C. Bose Centre for Cryptology and Security, Indian Statistical Institute</b> , Kolkata		2019

LANGUAGES {R, Python}, { $\text{\LaTeX}$ , Markdown, HTML}, {English, Bengali (native), Hindi}