



CONTACT DETAILS	<b>Email:</b> <a href="mailto:ghoshadi@stanford.edu">ghoshadi@stanford.edu</a> <b>Phone:</b> +1 (650) 382 7711 <b>Webpage:</b> <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	<b>Ph.D. in Statistics, <a href="#">Stanford University</a></b> GPA 4.13 <ul style="list-style-type: none"><li>Advised by <a href="#">Stefan Wager</a> (Stanford GSB) &amp; <a href="#">Dominik Rothenhäusler</a> (Stanford Statistics)</li></ul> <b>Masters of Statistics (M.Stat), <a href="#">Indian Statistical Institute</a>, Kolkata</b> <ul style="list-style-type: none"><li><b>Dissertation advisor:</b> <a href="#">Prof. Bodhisattva Sen</a> (<a href="#">Columbia University</a>)</li><li><b>Specialization:</b> Theoretical Statistics</li></ul> <b>Bachelor of Statistics (B.Stat), <a href="#">Indian Statistical Institute</a>, Kolkata</b>		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"><li><b>Ghosh, A. &amp; Rothenhäusler, D. (2025).</b> Assumption-robust Causal Inference. <a href="#">arXiv:2505.08729</a> <a href="#">↗</a></li><li><b>Ghosh, A., Imbens, G. &amp; Wager, S. (2025).</b> PLRD: Partially Linear Regression Discontinuity Inference. <a href="#">arXiv:2503.09907</a> <a href="#">↗</a></li><li><b>Ghosh, A., Deb, N., Karmakar, B., &amp; Sen, B. (2022+).</b> Efficiency and Robustness of Rosenbaum's Rank-based Estimator in Randomized Experiments. <i>Submitted.</i> <a href="#">↗</a></li><li><b>Ghosh, A. (2019).</b> 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> <a href="#">↗</a></li></ol> I currently help organize the <a href="#">Online Causal Inference Seminar</a> .		
INVITED TALKS	<ul style="list-style-type: none"><li><b><a href="#">Joint Statistical Meeting</a></b>, Nashville, Tennessee <b>Session:</b> Regression Discontinuity Designs with Complex Data</li><li><b><a href="#">Industrial Affiliates Annual Conference</a></b>, Stanford University <b>Title:</b> Practical bias-aware inference in regression discontinuity designs: An asymptotic view</li><li><b><a href="#">Stanford Causal Science Center Conference</a></b>, Stanford University <b>Title:</b> Asymptotic bias-aware inference in regression discontinuity designs under higher-order smoothness</li><li><b><a href="#">Computational and Methodological Statistics</a></b>, HTW Berlin, University of Applied Sciences, Berlin, Germany <b>Title:</b> Efficiency and robustness of Rosenbaum's regression (un)-adjusted rank-based estimator in randomized experiments</li><li><b><a href="#">PCM Memorial Lecture</a></b>, <a href="#">Indian Statistical Institute</a>, Kolkata <b>Title:</b> The synthetic control method in causal inference</li><li><b><a href="#">D. Basu Memorial Lecture</a></b>, <a href="#">Indian Statistical Institute</a>, Kolkata <b>Title:</b> Large low-rank matrix completion</li><li><b><a href="#">Online Reading Group on Functional Data Analysis</a></b> <a href="#">↗</a> <b>Title:</b> Two-sample testing of the equality of mean functions</li><li><b><a href="#">Students' Learning Seminar</a></b>, <a href="#">Indian Statistical Institute</a>, Kolkata <b>Title:</b> Matching estimators in causal inference</li></ul>		

TEACHING	As instructor, <b>Stanford University</b> <a href="#">ExploreCourses</a> 	
	<ul style="list-style-type: none"> <li>Stats 302: Qualifying Exam Workshop (Theoretical Statistics). Summer 2025</li> <li>Stats 302: Qualifying Exam Workshop (Probability). Summer 2024</li> </ul>	
	As teaching assistant, <b>Stanford University</b> <a href="#">ExploreCourses</a> 	
	<ul style="list-style-type: none"> <li>Stats 60: Introduction to Statistical Methods: Precalculus. Spring 2025</li> <li>Stats 361: Causal Inference. Winter 2025</li> <li>Stats 200: Introduction to Theoretical Statistics. Autumn 2024</li> <li>Stats 310B/Math 230B: Theory of Probability II. Winter 2024</li> <li>Stats 310A/Math 230A: Theory of Probability I. Autumn 2023</li> <li>Stats 216: Introduction to Statistical Learning. Winter 2023</li> <li>Stats 202: Data Mining and Analysis. Summer 2023, Autumn 2022</li> </ul>	
	<b>Other experiences</b>	
	<ul style="list-style-type: none"> <li>Trained numerous high school students for mathematical olympiads, entrance examinations of Indian Statistical Institute, Chennai Mathematical Institute, and other competitive exams.</li> <li>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.</li> </ul>	
AWARDS	<b>Recognitions from the Indian Statistical Institute</b>	
	<ul style="list-style-type: none"> <li><b>ISIAA – J. K. Ghosh Memorial Gold Medal</b> (outstanding performance in M.Stat) 2023</li> <li><b>ISIAA – Mrs. M. R. Iyer Memorial Gold Medal</b> (best overall performance in B.Stat) 2021</li> <li><b>Nikhilesh Bhattacharyya Memorial Gold Medal</b> (best performance in Statistics in B.Stat) 2021</li> </ul>	
	<b>Others</b>	
	<ul style="list-style-type: none"> <li><b>Madhava Mathematics Competition</b>, received invitation to a prestigious event 2019, 2018</li> <li><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</li> </ul>	
OTHER PROJECTS	<ul style="list-style-type: none"> <li><b>Inference for Adaptively Sampled Data via REINFORCE</b> with Ivy Zhang 2025</li> <li><b>SMARTer Multi-task Fine-tuning of BERT</b> with Disha Ghandwani and Rahul Kanekar 2024</li> <li><b>Analyzing lower back pain data</b> with Anik Burman and Soham Das 2020</li> <li><b>Age-dependent branching processes with/without immigration</b> with Wribhu Banik and Shouvik Middey 2020</li> <li><b>Finding anomalies in a coal quality data of Coal India Limited</b> with Soham Das and Arjama Das 2020</li> <li><b>Typical distance between two randomly selected vertices of a Erdős-Rényi binomial random graph</b> with Sayak Chatterjee 2020</li> <li><b>Method of moments in random matrix theory</b> (advisor: Prof. Arijit Chakrabarty) 2019</li> <li><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, Kolkata</b> 2019</li> </ul>	
LANGUAGES	{ <b>R</b> , Python}, { <del>La</del> TeX, Markdown, HTML}, {English, Bengali (native), Hindi}	