Rohan Hore

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Academic Appointments

Postdoctoral scholar, Carnegie Mellon University   8/2025-present
Advisor: Aaditya Ramdas

Education

PhD in Statistics, University of Chicago   9/2020 – 06/2025
Advisor: Rina Foygel Barber, Thesis: Assumption-lean approaches to modern statistical inference

Masters in Statistics, Indian Statistical Institute, Kolkata   7/2018 – 6/2020
Advisor: Abhik Ghosh, Specialization: Probability

Bachelors in Statistics, Indian Statistical Institute, Kolkata   7/2015 – 6/2018

Internships and Long Visits

Student Visitor, Statistical Laboratory, University of Cambridge   9/2023 - 12/2023
Host: Richard J. Samworth

Intern at TCS ION, Kolkata   12/2016 - 1/2017
Project: Performance Analytics for Large Scale Online Assessments

Publications and Papers

- Rohan Hore, Jake Soloff, Rina Foygel Barber and Richard J. Samworth "Conditional independence testing under shape constraints". Arxiv: arxiv:2501.06133[stat.ME].

- Rohan Hore and Rina Foygel Barber. "Conformal prediction with local weights: randomization enables local guarantees".Journal of the Royal Statistical Society Series B, 2024. Arxiv: arxiv:2310.07850[stat.ME].

- Yu Gui, Rohan Hore, Zhimei Ren, and Rina Foygel Barber. "Conformalized survival analysis with adaptive cutoffs". Biometrika, 2023. Arxiv: arxiv:2211.01227[stat.ME].

- Rohan Hore and Abhik Ghosh. "Robust and Efficient Parameter Estimation for Discretely Observed Stochastic Processes". Annals of the Institute of Statistical Mathematics, 2024. Arxiv: arxiv:2204.05028[stat.ME].

Posters and Presentations

- "Harnessing monotonicity: theory, practice, and promise". CAM and STATS student Seminar, University of Chicago, 2025.

- "Monotonicity meets conditional independence testing: new insights". PhD Student Research Day, Data science institute, University of Chicago, 2024.

- Discussant for "Two-sided conformalized survival analysis". International Seminar on Selective Inference, 2024.

- "Localized conformal prediction with random weights: randomization enables robustness". CAM and STATS student Seminar, University of Chicago, 2024.

- "Distribution free conditional predictive inference: randomization enables robust guarantees". Student Research Poster Day, University of Chicago, 2024.

- "Conformal prediction with local weights: randomization enables robust guarantees". Talk at Michigan Bio-statistics mHealth Working Group, 2023.

- "Conformalized Survival Analysis with Adaptive Cutoffs". ICML Distribution free Uncertainty Quantification workshop, 2022.

Honors And Awards

- Senior Consultant Recognition award, Statistical Consulting Program, Department of Statistics, University of Chicago, 2022 and 2023
- Dean's list of toppers, ISI Kolkata, 2015-2020
- Second rank holder, Medha Sandhan Exam, Academic Science Culture and Promotion Society, 2011

Teaching experience

As an Instructor at University of Chicago

- Stat 23400 - Statistical Models and Methods. Spring 2023.
- Applied Statistics Qualifying Exam Workshop. Summer 2023, Summer 2024.

As a Teaching Assistant at University of Chicago

- Stat 34700 - Generalized Linear Models. Winter 2024, Winter 2025.
- Stat 27850 - Multiple Testing, Modern Inference, and Replicability. Winter 2023.
- Stat 31200 - Introduction to Stochastic Processes I. Autumn 2022.
- Stat 25150 - Introduction to Mathematical Probability-A. Spring 2022.
- Stat 25100 - Introduction to Mathematical Probability. Spring 2021, Autumn 2021.
- Stat 31700 - Introduction to Probability Models. Winter 2021.