Ronak Mehta

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Google Scholar

EDUCATION

University of Washington — Seattle, WA
Ph.D. in Statistics (*Advisor: Dr. Zaid Harchaoui*) — Fall 2020–Spring 2025 (Expected)

Coursework: Generative Models, Reinforcement Learning, Natural Language Processing, Convex Optimization, Measure Theory, Advanced Theory of Statistical Inference

Johns Hopkins University — Baltimore, MD
M.S.E. in Applied Mathematics & Statistics (*Advisor: Dr. Joshua Vogelstein*) — Fall 2018–Spring 2019

Thesis: "Independence Testing for Multivariate Time Series"

Coursework: Nonlinear Optimization, Matrix Analysis, Bayesian Statistics

Johns Hopkins University — Baltimore, MD
B.S. in Applied Mathematics & Statistics — Fall 2015–Spring 2018

Coursework: Time Series Analysis, Intermediate Programming (C/C++), Data Structures (Java), Algorithms

EXPERIENCE

Amazon — Menlo Park, CA
Research Scientist Intern in Supple Chain Optimization Technology — Summer 2022

Deep sequence models and graph neural networks for multivariate time series forecasting.

Facebook (now Meta) — Menlo Park, CA
Applied Research Science Intern in Enterprise Products — Summer 2021

Multimodal (hand-engineered, language, and vision) machine learning, interpretable AI.

Microsoft Research — Redmond, WA
Research Intern in Special Projects — Summer 2020

Representation learning, continual/lifelong learning.

Johns Hopkins University Department of Biomedical Engineering — Baltimore, MD
Assistant Research Engineer in NeuroData Laboratory — Fall 2017–Spring 2020

Nonparametric methods, uncertainty estimation, continual/lifelong learning.

Goldman Sachs — New York, NY
Software Engineering Intern in Finance & Risk Technology — Summer 2018

Large-scale data streaming, time series analysis, user-driven design.

Johns Hopkins University Applied Physics Laboratory — Laurel, MD
Research Intern in Large-Scale Analytics Systems — Summer 2017

Sentiment analysis, network science, distributed computing in Spark.

Publications & Presentations

[1] **R. Mehta**, K. Pillutla, V. Roulet, and Z. Harchaoui, "Stochastic ordered empirical risk minimization", Joint Statistical Meetings (JSM), 2022.

[2] R. Perry, A. Li, C. Huynh, T. M. Tomita, **R. Mehta**, J. Arroyo, J. Patsolic, B. Falk, and J. T. Vogelstein, "Manifold oblique random forests: Towards closing the gap on convolutional deep networks", arXiv. *To appear in SIAM Journal on Mathematics of Data Science (SIMODS)*, 2022.

Scholarships and Awards

Institute for Foundations of Data Science (IFDS) Scholarship   Spring 2022
To promote fundamental research in the mathematical foundations of data science. Supported by the NSF Transdisciplinary Research in Principles of Data Science (TRIPODS) program.

Teaching

University of Washington

Teaching Assistant

Machine Learning for Big Data (STAT 548 / CSE 547)	Winter 2022
Introduction to Machine Learning (STAT 416 / CSE 416)	Fall 2021
Statistical Machine Learning for Data Scientists (DATA 558)	Spring 2021
Applied Regression (STAT 504)	Winter 2021
Statistical Methods in Engineering & Science (STAT 390)	Fall 2020

John Hopkins University

Instructor of Record

Mathematical Thinking and Proof-Writing for Engineers (EN.553.109)	Winter 2020

Teaching Assistant

Matrix Analysis & Linear Algebra (EN.553.792)	Fall 2019
Probability & Statistics for the Biological Sciences & Engineering (EN.553.311)	Spring 2019
Probability & Statistics for the Physical Sciences & Engineering (EN.553.310)	Fall 2018
Computational Molecular Medicine (EN.553.450)	Spring 2018