

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, Advanced Probability

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

D.E. Shaw & Co.

New York, NY

Quantitative Analyst Intern in Futures

Summer 2023

Large language model training.

Amazon

Menlo Park, CA

Research Scientist Intern in Supply 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 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

- [1] A. Li, R. Perry, C. Huynh, T. M. Tomita, **R. Mehta**, J. Arroyo, J. Patsolic, B. Falk, S. Sarma, and J. Vogelstein, “Manifold Oblique Random Forests: Towards Closing the Gap on Convolutional Deep Networks”, *SIAM Journal on Mathematics of Data Science*, vol. 5, 2023.
- [2] **R. Mehta**, V. Roulet, K. Pillutla, L. Liu, and Z. Harchaoui, “Stochastic Optimization for Spectral Risk Measures”, in *AISTATS*, vol. 206, PMLR, 2023.

TALKS

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| Stochastic Ordered Empirical Risk Minimization
<i>Joint Statistical Meetings (JSM), August 2022.</i> | Washington, D.C. |
| Stochastic Optimization for Spectral Risk Measures
<i>SIAM Conference on Optimization (OP23), June 2022.</i> | Seattle, WA |

SCHOLARSHIPS AND AWARDS

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| JSM Student Paper Award in Risk Analysis Honorable Mention
<i>For exceptional student papers regarding theoretical development or applications of risk analysis, including environmental risk, financial risk, the risk to engineering structures, health risks, risks to defense and national security. Presented at Joint Statistical Meetings (JSM) 2023.</i> | 2023 |
| Institute for Foundations of Data Science (IFDS) Scholarship
<i>To promote fundamental research in the mathematical foundations of data science. Supported by the NSF Transdisciplinary Research in Principles of Data Science (TRIPODS) program.</i> | 2022 |

TEACHING

University of Washington

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| Teaching Assistant - Graduate Courses | |
| Statistical Inference (STAT 513) | Winter 2023 |
| Machine Learning for Big Data (STAT 548 / CSE 547) | Winter 2022 |
| Statistical Machine Learning for Data Scientists (DATA 558) | Spring 2021 |
| Applied Regression (STAT 504) | Winter 2021 |
| Teaching Assistant - Undergraduate Courses | |
| Introduction to Machine Learning (STAT 416 / CSE 416) | Fall 2021 |
| Statistical Methods in Engineering & Science (STAT 390) | Fall 2020 |

John Hopkins University

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| Instructor of Record | |
| Mathematical Thinking and Proof-Writing for Engineers (EN.553.109) | Winter 2020 |
| Teaching Assistant - Graduate Courses | |
| Matrix Analysis & Linear Algebra (EN.553.792) | Fall 2019 |
| Teaching Assistant - Undergraduate Courses | |
| 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 |