

EDUCATION

University of Washington

Seattle, WA

Ph.D. in Statistics, GPA: 3.88/4.0

Fall 2020–Spring 2025 (Expected)

- **Relevant Coursework:** Generative Models, Reinforcement Learning, Natural Language Processing, Convex Optimization, Measure Theory

Johns Hopkins University

Baltimore, MD

M.S.E. in Applied Mathematics & Statistics, GPA: 4.0/4.0

Fall 2018–Spring 2019

- **Thesis:** “Independence Testing for Time Series”, Advisor: Dr. Joshua Vogelstein
- **Relevant Coursework:** Nonlinear Optimization, Statistical Theory, Matrix Analysis & Linear Algebra, Applied Bayesian Statistics, Topics in Model Selection, Statistical Pattern Recognition

Johns Hopkins University

Baltimore, MD

B.S. in Applied Mathematics & Statistics, GPA: 3.6/4.0

Fall 2015–Spring 2018

- **Relevant Coursework:** Real Analysis, Time Series Analysis, Intermediate Programming (C/C++), Data Structures (Java), Analysis of Algorithms

EXPERIENCE

Facebook

Menlo Park, CA

Applied Research Science Intern in Enterprise Products

Summer 2021

- Trained multimodal (numerical, language, vision, whole-post) models to automate functions of Facebook Global Security Intelligence and Investigations team.
- Applied feature importance and nonparametric methods to identify relevant signals for classification task.

Microsoft Research

Redmond, WA

Research Intern in Special Projects

Summer 2020

- Applied continual learning methods on a suite of natural language, vision, and time series tasks.
- Extended multitask/continual learning methods for settings in which task labels are unknown.

Johns Hopkins University Department of Biomedical Engineering

Baltimore, MD

Assistant Research Engineer in Dr. Joshua Vogelstein Laboratory

Fall 2017–Spring 2020

- Developed nonparametric hypothesis testing methods for multivariate series.
- Developed nonparametric uncertainty estimation and calibration techniques for supervised learning.
- Proposed metrics and methods to formalize continual/lifelong machine learning.

Goldman Sachs

New York, NY

Software Engineering Intern in Finance & Risk Technology

Summer 2018

- Implemented features for a large-scale data streaming platform for financial time series.
- Worked directly with end-users and developed software iteratively in a proprietary language.

Johns Hopkins University Applied Physics Laboratory

Laurel, MD

Research Intern in Large-Scale Analytics Systems

Summer 2017

- Conducted sentiment and centrality analysis of Twitter communication network to identify problematic users.
- Implemented distributed clustering algorithm for categorical data using Apache Spark.

PREPRINTS

- [1] H. Helm, **R. Mehta**, B. Duderstadt, W. Yang, C. M. White, A. Geisa, J. T. Vogelstein, and C. E. Priebe, “A partition-based similarity for classification distributions”, [arXiv link], 2020.
- [2] J. T. Vogelstein, H. S. Helm, **R. Mehta**, J. Dey, W. LeVine, W. Yang, B. Tower, J. Larson, C. White, and C. E. Priebe, “A general approach to progressive learning”, [arXiv link], 2020.
- [3] **R. Mehta**, J. Chung, C. Shen, T. Xu, and J. T. Vogelstein, “Independence testing for multivariate time series”, [arXiv link], 2019.
- [4] **R. Mehta**, R. Guo, J. Arroyo, M. Powell, H. Helm, C. Shen, and J. T. Vogelstein, “Estimating information-theoretic quantities with uncertainty forests”, [arXiv link], 2019.
- [5] S. Panda, S. Palaniappan, J. Xiong, E. W. Bridgeford, **R. Mehta**, C. Shen, and J. T. Vogelstein, “Hyppo: A comprehensive multivariate hypothesis testing python package”, [arXiv link], 2019.
- [6] R. Perry, T. M. Tomita, **R. Mehta**, J. Arroyo, J. Patsolic, B. Falk, and J. T. Vogelstein, “Manifold forests: Closing the gap on neural networks”, [arXiv link], 2019.

TEACHING

University of Washington

- **Teaching Assistant** Spring 2021
Statistical Machine Learning for Data Scientists (DATA 558)
- **Teaching Assistant** Winter 2021
Applied Regression (STAT 504)
- **Teaching Assistant** Fall 2020
Statistical Methods in Engineering & Science (STAT 390)

John Hopkins University

- **Instructor of Record** Winter 2020
Mathematical Thinking and Proof-Writing for Engineers (EN.553.109)
- **Teaching Assistant** Fall 2019
Matrix Analysis & Linear Algebra (EN.553.792)
- **Teaching Assistant** Spring 2019
Probability & Statistics for the Biological Sciences & Engineering (EN.553.311)
- **Teaching Assistant** Fall 2018
Probability & Statistics for the Physical Sciences & Engineering (EN.553.310)
- **Teaching Assistant** at Johns Hopkins University Spring 2018
Computational Molecular Medicine (EN.553.450)

SKILLS

- **Numerical Programming:** Python, R, MATLAB
- **Python Scientific Stack:** Numpy, Pandas, Matplotlib, Seaborn, scikit-learn, joblib, PyTorch
- **Other:** Object-Oriented Programming, SQL