

EDUCATION

University of Washington

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

Seattle, WA

Fall 2020–Current

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

Johns Hopkins University

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

Baltimore, MD

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

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

Baltimore, MD

Fall 2015–Spring 2018

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

EXPERIENCE

Facebook

Applied Research Science Intern in Enterprise Products

Menlo Park, CA

Summer 2021

- Used feature importance and predictive models to support functions of the Facebook Global Security team.

Microsoft Research

Research Intern in Special Projects

Redmond, WA

Summer 2020

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

Johns Hopkins University Department of Biomedical Engineering

Assistant Research Engineer in Dr. Joshua Vogelstein Laboratory

Baltimore, MD

Fall 2017–Spring 2020

- Developed methods for structured data, uncertainty estimation, and continual/lifelong learning.
- Developed analysis methods for high-dimensional time series such as fMRI data.

Goldman Sachs

Software Engineering Intern in Finance & Risk Technology

New York, NY

Summer 2018

- Implemented feature to add new metrics into 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

Research Intern in Large-Scale Analytics Systems

Laurel, MD

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:** Matplotlib, Seaborn, scikit-learn, joblib, PyTorch
- **Other:** Objective-Oriented Programming, SQL