

## EDUCATION

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### University of Washington

Ph.D. in Statistics

Seattle, WA

Fall 2020–Current

- **Relevant Coursework:** Generative Models, Reinforcement Learning

### 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

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### Microsoft Research

Research Intern in Special Projects

Redmond, WA

Summer 2020

- Proposed a comprehensive theoretical formulation of the transfer, multitask, and continual learning problems.
- Adapted and evaluated continual learning methods on a suite of natural language, vision, and time series tasks.

### Johns Hopkins University Department of Biomedical Engineering

Assistant Research Engineer in Dr. Joshua Vogelstein Laboratory

Baltimore, MD

Fall 2017–Spring 2020

- Developed decision forest methods for structured data, uncertainty estimation, and continual learning.
- Developed hypothesis test to measure dependence between time series, with applications to 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 propriety 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

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- [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

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### University of Washington

- **Teaching Assistant** Fall 2020  
*Statistical Methods in Engineering & Science (STAT 390)*

### John Hopkins University

- **Instructor** 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

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- **Proficient:** Python, R, MATLAB, Matplotlib, Seaborn, scikit-learn, joblib
- **Familiar:** Java, C/C++, Scala, PyTorch, Tensorflow, Keras, Apache Spark

## MENTORSHIP

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- **Claire Gao** Fall 2020  
*Linear Methods in Machine Learning (U. of Washington Dept. of Statistics Directed Reading Program)*

## EXTRACURRICULAR ACTIVITIES

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- **Music Director** at Kranti A Capella Spring 2016–Spring 2018  
*Wrote arrangements, led practices, and taught music theory as Music Director of South Asian fusion a capella group. Won “Best Arrangement” award at national competition Sangeet Saagar 2018.*
- **Finance Education Chair & Alumni Chair** at Alpha Kappa Psi Spring 2016–Spring 2018  
*Organized alumni networking events and curated education program in introductory finance for new members of professional business fraternity.*