

## John Hocter

University of Washington  
Department of Biostatistics

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## Education

**University of Washington**, Seattle, WA, Ph.D., Biostatistics, June 2024 (Expected)

**Georgetown University**, B.S., Mathematics and Statistics, May 2017

## Work Experience

**Bain & Company**  
**Associate Consultant**

Los Angeles, CA  
July 2017- July 2019

- Built financial forecast model for Aerospace and Defense firm that uncovered >\$150M in imminent cash risk, allowing C-level clients to understand financial implications of potential actions and decide upon optimal strategy
- Developed market forecast models to aid multiple clients in determining appropriate response to disruptive market trends, market entry/exit strategy, and high priority segments of market to target for greatest return
- Built advanced models addressing key investment questions for Private Equity clients; clients leveraged these models in negotiations with target companies, leading to increased projected IRR
- Selected model examples:
  - Multivariate regression model quantifying key drivers of profitability for fast-food franchises, which identified >\$3M post-acquisition EBITDA opportunity
  - Geographic whitespace model quantifying expansion opportunity for gym chain, which identified significantly less opportunity than management forecasts included
- Led office-wide training initiative to increase uptake of Alteryx data-science/analytics software among consulting staff, leading to improvement in big-data analytical capabilities

**Associate Consultant Intern**

June 2016-August 2016

- Built procurement model for Aerospace and Defense firm identifying >\$30M in near-term savings opportunities from optimizing cooperation between distinct purchasing departments
- Synthesized data from thousands of financial plans, highlighting >\$100M in previously uncovered cash risk

## Research Experience

**Fred Hutchinson Cancer Research Center**  
**Research Assistant**

Seattle, WA  
January 2020-Present

- Ongoing work with Holly Janes focused on the design and analysis of vaccine studies, with a particular focus on HIV and malaria

**University of Washington Department of Biostatistics**  
**Research Assistant**

Seattle, WA  
2019-December 2019

- Worked with Susanne May to manage de-identification of data for clinical trial examining childhood pneumonia treatment in Malawi, which allowed data to be shared between research institutions and created further opportunities for data to be leveraged

**Georgetown University**  
**Honors Thesis in Mathematics**

Washington, DC  
August 2016-May 2017

- Analyzed genomic data from 505 ovarian cancer patients to identify genes and pathways correlated to survival
- Applied lasso technique to Cox survival models to identify relevant biomarkers (Gene Expression, CNVs, Methylation) and developed methodology to integrate genomic data types with respect to their biological relationships
- Used time-dependent ROC curves and concordance index measures based on repeated k-fold cross-validation to demonstrate substantial gain in prediction with integration of multiple data types

## Teaching Experience

**Georgetown University**  
**Probability and Statistics Teaching Assistant**

Washington, DC  
August 2016-May 2017

- Taught two weekly lab modules to aid in learning of introductory statistics material, held office hours, and graded homework and exams

**Mathematical Statistics Grader**

August 2015-May 2016

## Honors and Awards

**School of Public Health Award**, University of Washington Department of Biostatistics, April 2019

**Leslie Award**, Georgetown University Department of Mathematics and Statistics, May 2017

**Summa Cum Laude**, Georgetown University, May 2017

**Phi Beta Kappa Member**, Phi Beta Kappa Chapter of Georgetown University, April 2016

**National Merit Scholar**, National Merit Scholarship Corporation, April 2013

**Eagle Scout**, Boy Scouts of America Troop 20, May 2011

## Computer Experience

**Programming Languages:** R, MATLAB, LaTeX

**Software:** Advanced Microsoft Excel, Alteryx, Tableau