Brian Powell

EDUCATION

Stanford University – Stanford, CA   September 2019 - March 2021 (Expected)
Master of Science, Statistics
- Cumulative GPA: 4.10/4.30
- Completed coursework (9/19-6/20): Statistical Inference (using R), Data Mining & Analysis (R), Scientific Python, Machine Learning (R), Stochastic Processes (R), ML and Causal Inference (R), Applied Linear Algebra
- Expected coursework (9/20-3/21): Experimental Design (R), Generalized Linear Models & Survival Analysis (R), Data Structures, Algorithms & OOP (C++), Deep Learning (Python), Convex Optimization (Matlab, CVX)

McGill University – Montréal, Canada   September 2016 - May 2019
Bachelor of Science, Major Mathematics, Minor Computer Science
- Cumulative GPA: 3.99/4.00; Dean's List; J. W. McConnell, Faculty of Science, and Emily Ross Crawford Scholarships
- Relevant coursework: Probability, Regression & ANOVA (using R), Text Mining (R), Real Analysis, Numerical Analysis, Intro to CS (Java), Algorithms & Data Structures, Artificial Intelligence (Java)

WORK EXPERIENCE

Ciena – Hanover, MD (Remote)   June 2019 - September 2020
Analytics Intern, Global Revenue Operations
- Spearheaded a project on sales forecast accuracy: collected, cleaned, and analyzed both historical and real-time data from Salesforce using R, Power Query, and Salesforce Einstein SAQL
- Deployed dashboards in Power BI and Tableau visualizing weekly product churn, and developed machine learning models to identify actionable opportunities to increase bookings
- Presented results to senior Sales leadership and advised IT directors on analytics platforms

.txtLAB@McGill – Montréal, Canada   January 2018 - September 2019
Research Assistant, Cultural Analytics
- Prepared a report on the distribution of U.S. colleges in the NBA draft: wrote R scripts to scrape data using the rvest package, quantified and visualized inequality by generating regression models and Lorenz curves in R
- Led a team of 6 research assistants on an annotation project examining citation practices in academic journals, and cleaned over 10,000 rows of manual data entries using R's tidyverse package
- Investigated frequency of certain topics in humanities journals using sigmoid & multilinear temporal models

St. Mike's Summer Day Camp
Co-owner and Director of Finances   April 2018 - June 2019
- Co-led a staff of 18 counsellors and accountable for 120 campers between the ages of 4-13

SKILLS

Computing: R • tidyverse • Python 3 • C++ • SQL • Excel • Power Query • git
Visualization: ggplot2 • Power BI • Salesforce Einstein • Tableau

PROJECTS

Causal Effect of Home Advantage on NBA Free Throw Accuracy   May - June 2020
- Co-authored a report investigating the effect of home advantage on NBA free throw accuracy from 2006 to 2016
- Applied machine learning and causal inference methods (AIPW, Honest Causal Tree, Causal Forest) in R to estimate average and heterogeneous treatment effects using 500k observations

Estimating True Prevalence of Nationalistic Language in 21C Fiction   June 2020
- Employed Stan and R to generate Bayesian estimates of true prevalence under binomial and hypergeometric sampling

OTHER INFORMATION
Languages: English (native speaker), French (fluent writer & speaker)
Activities: High School Tutor (2013-Present), Senior Division 1 Soccer Player (2017-2019), Play Director (2017-2019)
Interests: Soccer, ultimate frisbee, sports analytics, jazz & rock music, piano, mentoring