

Education

- **Yale University** | GPA: 3.93 | New Haven, CT | May 2017
 - B.A. in Applied Mathematics with a concentration in Computer Science
 - Honors: Phi Beta Kappa, *magna cum laude*, and distinction in the major
 - Senior Thesis: Studied the role of collaboration and gender on success in a computer science class using network methods, regression techniques, and in-class survey data.

Work Experience

- **Data Scientist** | IBM | Fall 2017 - Present
- **Quantitative Analysis Intern** | New York Yankees | Summer 2017
 - Analyzed baseball data for the baseball operations department using machine learning, regression analysis, and data visualization in R and SQL
- **Football Analytics Intern** | Minnesota Vikings Football | Summer 2016 – Winter 2016
 - Created new metrics to help evaluate player performance and injury risk by analyzing spatial player tracking data with over 10 million observations that had not been previously analyzed
 - Enhanced in game strategic decision making using game theory and machine learning
 - Designed automated reports using R, SQL, and LaTeX that are run after each game
- **Data Science Consultant** | Sports Medicine Analytics Research Team | Summer 2016 – Winter 2016
 - Measured the effects of Achilles, Hip, Sports Hernia, and Stress injuries on NBA players' career trajectories as well as factors that predicted better post injury outcomes
 - Projected future performance and identified comparable players for every NBA prospect in the 2016 NBA Draft and 2016 free agents for the Minnesota Timberwolves
 - Gathered, analyzed, and visualized data in R
- **Data Analyst Intern** | Highbridge Capital Management | Summer 2015
 - Researched and compiled information about US stocks for long and short opportunities
 - Data analysis and scraping were done in R and Excel

Leadership and Activities

- **President and Founder** | Yale Undergraduate Sports Analytics Group | Spring 2015 – Spring 2017
 - Conduct original research using statistical methods, R, and Python to enhance knowledge and understanding of sports strategy and talent evaluation
 - Projects include analyzing play selection in the NFL and player types and synergies in the NBA.
 - Helped Yale Men's Basketball Team identify players' and opponents' strengths and weaknesses
 - Organized and contributed to collaboration with the Yale Daily News
- **Finalist and Participant** | MIT Sloan Sports Analytics Conference Hackathons | Spring 2016 and 2017
 - In 2017, measured unpredictability in NBA passing using spatial analysis; one of three finalists
 - In 2016, visualized and measured defensive spread using football player tracking data
- **Participant** | NBA Basketball Analytics Hackathon | Fall 2016
 - Created interactive graphics about team defense and individual defending styles

Skills

- **Technical**
 - R, Python, SQL, C, MATLAB, Spark, Java, Racket, LaTeX, Microsoft Excel, Pandas, Numpy, Keras, and Scikit-Learn
- **Data Analytics**
 - Machine Learning, Data Mining, Modeling, Scraping, Network Analysis, Data Cleaning, and Data Visualization