

# Brianna Schuh

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## EDUCATION

### Yale University

New Haven, CT

Bachelor of Science: Statistics and Data Science

May 2023

**Relevant Coursework:** Artificial Intelligence, Big Data, Computability & Logic, Data Analysis, Discrete Mathematics, Information Systems, Intermediate Machine Learning, Linear Algebra & Matrix Theory, Linear Models, Probability Theory, Theory of Statistics

**Awards:** Jonathan Edwards College: Ellsworth Prize in Science & Math; Kappa Kappa Gamma (KKG): KKG Foundation Scholarship

### Massachusetts Institute of Technology (MIT)

Cambridge, MA

- Summer Program: MIT Introduction to Engineering and Science (MITES)

Summer 2018

- Chosen as one of 71 students from a competitive pool of over 2,100 applicants to participate in the MITES program at MIT

- Exposed to different STEM fields through conferences hosted by STEM industry leaders and collaborated with peers on projects

- **Coursework:** Humanities, Chemistry, Electronics, Integral Calculus, Statistical Mechanical Physics

- **Awards:** Electronics: Spirit of the Class; Integral Calculus: Spirit of the Class

## PROFESSIONAL EXPERIENCE

### BNY Mellon | *Data Scientist* | New York, NY

August 2023 – Present

- Working on AI Hub as a Software Engineering and Technology University Program (SETUP) Data Scientist

### Yale University | *Undergraduate Learning Assistant (ULA)* | New Haven, CT

January 2023 – May 2023

- Hosted weekly office hours that reviewed course material and assignments for Multivariate Statistical Methods (S&DS 363)

- Monitored an online discussion board for the 240+ students enrolled by answering questions on course content

- Graded homework assignments and provided feedback no more than five days after the assignment has been submitted

### Bloomberg LP | *Data Analyst Intern* | Princeton, NJ

June 2022 – August 2022

- Created an internal Bloomberg app that minimizes Bloomberg Generic Price (BGN) volatility using statistical methods and plots

- Designed a proof-of-concept automation tool for bank loan data utilizing microservices akin to Apache Airflow & AWS Lambda

- Created an internal Bloomberg app to automate up to 2,342 news stories featuring the highlights of the Housing Price Index (HPI)

### S&P Dow Jones Indices | *Inside Sales Intern* | New York, NY

June 2021 – August 2021

- Led data projects with the Asset Owners (AO) Client Coverage Team, AO Marketing Team, and AO Investment Consulting Team

- Analyzed over 25,000 entries of sales data, marketing data, and investment consulting data to support the design of new indices

- Enhanced the accuracy of the Salesforce database by 16% and the accuracy of the Marketo database by 8%

## EXTRACURRICULARS

### Code Haven | *Student Mentor* | New Haven, CT

February 2022 – May 2023

- Taught the fundamentals of computer science to middle school students in the New Haven Public Schools district

- Kept track of progress of each student to ensure that they are on track to complete their assigned projects

- Attended weekly cohort meetings to discuss and learn about lesson plans for the upcoming week

### Matriculate | *Advising Fellow* | New Haven, CT

December 2019 – June 2022

- Selected to join this non-profit that helps low-income, high-achieving high schoolers navigate the college application process

- Researched different colleges, edited personal statement and essays, and provided support with financial aid and scholarships

- Attended monthly cohort meetings in order to stay up-to-date with the resources available to high school students

## PROJECTS

- **Premier League Analysis:** Analyzed player data from FIFA 20 using various multivariate statistical methods

- **Cribbage AI:** Implemented a genetic algorithm to optimize the values of a cribbage policy for pegging and discarding cards

- **Senior Thesis:** Researched password complexity using techniques including k-means clustering, CNNs, and MLPs

- **Portfolio Website:** Taught myself HTML/CSS and JavaScript in order to build a website to showcase my portfolio

## SKILLS

- **Programming Languages:** Python, R, SQL

- **Data Analysis Tools:** Pandas, Numpy, Matplotlib, Seaborn, Scipy, dplyr, ggplot2, Shiny, Leaflet

- **Machine Learning Frameworks:** Scikit-learn, Keras, TensorFlow, PyTorch, caret

- **Development Environments:** Jupyter Notebook, RStudio, Visual Studio Code (VS Code)