ARIELLE A. STERN

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science   Philadelphia, PA
Candidate for Master of Science in Engineering in Data Science   *May 2021*
- **Cumulative GPA:** 4.00 /4.00
- **Relevant courses:** Probability and Statistics, Brain Computer Interfaces, Big Data Analytics

Bachelor of Science in Engineering   *May 2020*
- **Major:** Bioengineering; **Minor:** Mathematics
- **Cumulative GPA:** 3.96/4.00. Summa Cum Laude.
- **Honors:** Penn Engineering Exceptional Service Award, Tau Beta Pi Engineering Honor Society
- **Relevant courses:** Programming Languages and Techniques, Linear Algebra, Biological Data Science
- **Activities:** Hexagon Senior Society (Vice President), Biomedical Engineering Society (VP of Outreach Committee), Sigma Delta Tau Sorority (Executive Board, VP of Recruitment, House Manager)

EXPERIENCE

University of Pennsylvania   Philadelphia, PA
Teaching Assistant, Computer and Information Science Department   *Fall 2020*
- Hold weekly office hours and write homework assignments in Python and SQL
- Plan recitation activities for Big Data Analytics class of 330 students

BenevolentAI   Brooklyn, NY
Data Scientist Intern, Metrics and Evaluation Team   *Summer 2020*
- Built Tableau dashboard for the company's drug researchers and data scientists to track success of and facilitate feedback in disease programs
- Conducted user research to identify use cases and user requirements for Tableau dashboard
- Developed Python and SQL code to perform ETL on protein efficacy and safety data

University of Pennsylvania   Philadelphia, PA
Teaching Assistant, Statistics Department   *Fall 2019*
- Held weekly office hours for Data Mining class of 230 students and graded homework assignments in R

The Earnest Research Company   New York, NY
Data Analyst Intern, Financial Services Team   *Summer 2019*
- Predicted and backtested operating performance metrics of certain retail companies by querying multibillion row transaction dataset in SQL
- Visualized complex data with Tableau to gain insights on consumer trends

Regeneron Pharmaceuticals   Tarrytown, NY
Intern, Bioinformatics Core Services Group   *Summer 2018*
- Constructed R/Shiny web application for automated ranking of genetic variants from phenotypic data
- Created and optimized R code for calculating semantic similarities among ontological terms
- Visualized and statistically analyzed ontological and genetic disease catalog data in R

Intern, DNA Sequencing Lab   *Summer 2017*
- Prepared genomic DNA utilizing quantification and quality control methods
- Formalized and implemented organizational worksheet system for sample tracking throughout lab processes
- Monitored and tested robotic protocols on liquid handling systems

ADDITIONAL INFORMATION

Technical Skills: Python, SQL, Matlab, R, Java, OCaml, Arduino
Software: Tableau, SolidWorks, DraftSight, Microsoft Office
Interests: Running, Painting, Making ice cream