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