

Shritama Ray

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EDUCATION

Columbia University: Candidate for M.S. Biostatistics

New York, NY

Track: Pharmaceutical Statistics | GPA: 3.8

Fall 2021 - Spring 2023 (expected)

Course Highlights: Epidemiology, Drug Development, Randomized Controlled Trials, SAS, SQL, Probability, Statistical Inference, Data Science, Survival Analysis

University of Pennsylvania: B.S.E. Chemical & Biomolecular Engineering

Philadelphia, PA

Track: Pharmaceuticals & Biotechnology | Minor: Engineering Entrepreneurship | GPA: 3.5

2014 - 2018

PROFESSIONAL EXPERIENCE

Genentech: Process Engineer

March 2019 - Present

- Technical manufacturing support for clinical production of biologics by analyzing real-time data & executing experiments
- Quality & efficiency focused equipment & business process project implementation using LEAN methodology

Huron Consulting Group: Life Sciences Strategy Analyst

July 2018 – January 2019

- Developed proposals for pharma/biotech clients pertaining to R&D strategy, pipeline & portfolio, product marketing, etc.
- Projects: Topical antibiotic market assessment, Data model for launch planning, Inflammation & Immunology conference coverage

Bank of the West, BNP Paribas: Strategic Sourcing Intern

June – August 2017

- Analyzed procurement contracts, vendor relationships, and operations to create a standardized budgeting workflow
- Presented cost-benefit analyses of financial proposals from vendors to key decision makers

Gilead Sciences: Clinical Finance Intern

June – August 2015

- Developed a hypothesis-driven, driver-based financial forecasting model to improve clinical trial budgeting accuracy
- Modeled trends in Excel & JMP by analyzing historical expenditure data, with input from R&D, FP&A, & Project Management

ACADEMIC EXPERIENCE

Phase 3 Randomized Clinical Trial Proposal

Spring 2022

- Wrote proposal for a double-blinded, clinical trial to study psilocybin for the treatment of anorexia nervosa
- Included statistical analysis plan, sample size determination (PASS), stratified & blocked randomization scheme, 1st/2nd outcomes

Project: Bariatric Surgery Analysis in SAS

Spring 2022

- Performed descriptive/graphical analysis & hypothesis testing on clinical trial data evaluating several obesity therapies
- Fit and evaluated models to predict the association of weight loss with treatments, including covariates & interactions

Project: Regression Models in R

Fall 2021

- Created and evaluated several candidate regression models in R to design a data-driven tool to predict crime rate of a US county

Teaching Assistant: Statistical Computing with SAS & Relational Databases in SQL

Fall 2022

- Selected as the Teaching Assistant (TA) for the graduate level SAS & SQL courses in the Columbia Biostatistics department
- Host weekly office hours, grade assignments, and collaborate with the professor to design assignments and projects

LEADERSHIP

Genentech Process Engineering: Scrum Pod Lead

June 2021 - Present

- Managed a team of 12 engineers; drove collaboration, efficiency & right-first-time results for parallel clinical/commercial projects

Genentech FutureLab: Job Shadow Day Chair & Science Garage Mentor

March 2019 - September 2021

- Coordinated team of 20-25 employees to host 80-100 high school students for job-function specific presentations & exercises
- Taught weekly classes of a 2-year biotechnology lab-based curriculum to high school students in South San Francisco

Penn Social Entrepreneurship Movement: Consulting Project Lead

August 2015 - May 2018

- Led 4 student teams to deliver business recommendations to clients in CPG/Healthcare/EdTech/Sustainable Goods industries

Access Engineering: Curriculum Chair

August 2016 - August 2017

- Iteratively designed lesson plans using feedback for 30+ instructors to teach engineering labs to 75+ Philadelphia HS students
- Featured on the cover of the Penn Engineering magazine: <https://issuu.com/penn-engineering/docs/pennengineeringmagmr>

TEST SCORES

SAT: 800 Math, 800 Writing, 760 Critical Reading | **GRE:** 170 Quantitative Reasoning, 165 Verbal Reasoning

SKILLS: R, RMarkdown, SAS, SQL, PASS, Java, MATLAB, Aspen, CAD, Project Management, Public Speaking, Technical Writing

INTERESTS: Tutoring, International Development, Guitar & Piano, Theater, Mixed Media Art, Puzzles, Optical Illusions