

BINYAM YILMA

60 Haven Ave
New York City, NY

b.yilma@columbia.edu
(617) 229-9291

EDUCATION

COLUMBIA UNIVERSITY, Mailman School of Public Health, New York, NY May 2021
Master of Public Health, Biostatistics; Certificate: Comparative Effectiveness and Outcomes Research

Relevant Courses: Data Science I & II | Applied Regression I & II | Analysis of Categorical Data | Introduction of Mathematical Statistics | Decision & Cost-Effectiveness Analysis | Relational Databases & SQL for Research & Data Science | Statistical Computing with SAS | Analysis of Large-Scale Data

COLBY-SAWYER COLLEGE, New London, NH May 2016
Bachelor of Science in Biology; Minors: Mathematics, Chemistry, & Political Studies

SKILLS

Data Analytics & Data Management: R | SAS | SQL | MS ACCESS | STATA | qGIS | TREEAGE

PROFESSIONAL EXPERIENCE

Medidata Solutions, New York City, NY Oct. 2020 – Dec.2020
Medidata Institute Co-op, Acorn AI

- Conducted extensive exploratory data analysis to better understand the differential effectiveness of clinical trial queries; identified features of effective queries to help sponsors better define and tailor strategies of source data verification.
- Collaborated closely with the Director of Data Science and a Senior Director of Statistics to drive the project forward by tidying and analyzing cross-sponsor data (1.94 million observation) to identify actionable insights.
- Effectively presented findings to an international network of Data Scientists to further project aims and foster collaboration; submitted abstract to Society of Clinical Trials.

Roche, Little Falls, NJ Jun. 2020 – Sept.2020
Data Science Intern, Pharmaceutical Research and Early Development Informatics

- Developed and implemented statistical models to identify predictive biomarkers in Non-Small Lung Cancer patients using a Cox-Proportional Hazards & a Logistic Regression model on R.
- Effectively contributed to the development of a python-based predictive machine learning model to annotate cell subtype/markers information given reportable names from flow cytometer data.
- Integrated and tidied data from 3 clinical studies, across 22 clinical trials, totaling a dataset with ~ 1.9 million observations.

Dana Farber Cancer Institute, Medical Oncology Department, Boston, MA Dec. 2017 – Jul. 2019
Research Assistant, Letai Lab

- Provided logistical and strategic support for 2 post-doctoral fellows and their respective teams; facilitated a study that demonstrated the ability of a functional precision medicine assay to prospectively assign treatment to Acute Myeloid Leukemia models; expedited a drug screening effort on Triple Negative Breast Cancer.
- Generated, organized, and analyzed extensive datasets (5,000-10,000 data points per experiment) for 2 different translational research projects primarily using R and Excel; cleaned data and executed various statistical analyses.

TEACHING & LEADERSHIP EXPERIENCE

Graduate Teaching Assistant, SQL Programming for Research & Data Science, Columbia U Jan. 2021 – Present
Graduate Teaching Assistant, Statistical Computing with SAS, Columbia U Jan. 2021 – Present
Graduate Teaching Assistant, Quantitative Research Methods & Applications, Columbia U Sept. 2020 – Dec. 2020
Co-President, Healthcare Data Analytics, Columbia U Jan. 2020 – Dec. 2020
Co-President, Black and Latinx Student Caucus, Columbia U Jan. 2020 – Dec. 2020

PERSONAL INTERESTS

Film | Soccer | Reading | Hiking | Jazz | Kayaking | Philosophy | Running | Coffee