

# BINYAM YILMA

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## EDUCATION

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

May 2021

**Relevant Courses:** Data Science | Applied Regression | Decision & Cost-Effectiveness Analysis | Statistical Analysis with SAS | Relational Databases & SQL Programming | Analysis of Categorical Data | Analysis of Large-Scale Data

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

May 2016

## RELEVANT SKILLS

R | SAS | SQL | STATA | TREEAGE | MS ACCESS | MS POWERPOINT

## PROFESSIONAL EXPERIENCE

**Roche Pharmaceuticals**, Little Falls, NJ  
Data Science Intern, Pharmaceutical Research and Early Development Informatics

Jun. 2020 – Sept. 2020

- Developed and implemented statistical methods to identify predictive biomarkers in Non-Small Lung Cancer patients using Cox-Proportional Hazards & Logistic Regression models in R.
- Collaborated with machine learning experts and Lab Scientists; facilitated the development of a python-based predictive algorithm to annotate cell subtype/biomarker information given reportable names from flow cytometer data.
- Integrated and tidied data from 3 clinical studies, across 22 clinical trials, totaling a dataset of ~ 1.9 million observations, which enabled efficient analysis.

**Dana Farber Cancer Institute**, Medical Oncology Department, Boston, MA  
Research Assistant, Letai Lab

Dec. 2017 – Jul. 2019

- 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 in Excel and R; cleaned data and executed various statistical analyses (ANOVA, t-tests, ROC).

**Dartmouth College**, Thayer School of Engineering, Hanover, NH  
Research Assistant, Lynd Lab

Jul. 2016 – Aug. 2017

- Developed and implemented an efficient data acquisition system, which consolidated data from different instruments, increasing efficiency in both data analysis and data management.
- Proficiently applied macros to facilitate data analysis and data visualization; prepared comprehensive reports on experimental findings and presented work in a biweekly meeting.

## LEADERSHIP EXPERIENCE

Co-President, Healthcare Data Analytics, Columbia U, Mailman SPH  
Co-President, Black and Latinx Student Caucus, Columbia U, Mailman SPH  
Lead Organizer, [TEDx Colby-Sawyer College](#)  
Resident Assistant, Colby-Sawyer College  
Content Area Tutor, Colby-Sawyer College

Jan. 2020 – Present  
Jan. 2020 – Present  
Jan. 2016. – Apr. 2016  
Sep. 2014 – Apr. 2016  
Sep. 2014 – Apr. 2016

## PERSONAL INTERESTS

Running | Film | Soccer | Hiking | Cooking | Jazz | Graphic Art | Data Visualization | Kayaking | Philosophy