Benjamin Goebel
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Education
Columbia University Mailman School of Public Health, New York, NY
Master of Science in Biostatistics, Theory and Methods Track, May 2023,
Relevant Courses: Biostatistical Methods I, Data Science I, Principles of Epidemiology, Probability

Tufts University, Medford, MA
Bachelor of Science in Computer Science and Cognitive and Brain Sciences, May 2018,
G.P.A. 3.55, Cum Laude
Relevant Courses: Algorithms, Artificial Intelligence, Data Structures, Database Systems,
                    Discrete Mathematics, Experimental Psychology,
                    Introduction to Machine Learning, Statistics for the Behavioral Sciences

Trinity College Dublin, Dublin, Ireland, Sept. - Dec. 2016

Technical Skills
Languages: C, C++, Python, R, R Markdown, SQL
Applications: Epic, Microsoft Excel, REDCap

Work Experience
Weill Cornell Medicine, New York, NY, *Research Assistant*, Dec. 2019 - Aug. 2021
- Worked for the Dalio Institute of Cardiovascular Imaging assisting and conducting research on the imaging, quantification and analysis of plaque and stenosis in the heart
- Fit and interpreted models, in R and Python, using the CAC Consortium data set to predict ten-year cardiovascular mortality
- Created and merged REDCap study databases to collect and organize experimental research data
- Assisted in the writing and submitting of abstracts and manuscripts to academic journals
- Managed the regulatory and compliance of research studies; prepared and submitted materials to the Institutional Review Board

Weill Cornell Medicine, New York, NY, *Data Control Assistant*, Jan. 2019 - Nov. 2019
- Worked part-time, in operations and data analytics, for the All of Us Research Program, an NIH funded research program focused on precision medicine and inclusion in healthcare
- Built linear models, in R, using outreach data to make predictions and explore relationships between enrollment and relevant variables (e.g., clinic patient volume, number of outreaches, type of outreach, number of enrollment coordinators, etc.)
- Proposed policies, based on analyses, to support the outreach and enrollment of participants
- Tracked, at each site, performance of policies, outreach and enrollment using REDCap and Excel

Projects
500-Cities, Nov. 2018 - Apr. 2019, <github.com/bengoebel/500-Cities>
- Used R to inspect the 500 Cities data set (https://www.cdc.gov/500cities/) studying heart health
- Examined strong correlations between coronary heart disease and relevant variables in the data
- Ranked states and regions in the United States by metrics related to heart health; visualized the rankings on a map of the United States

WaterMazeTest, May 2017 - May 2018, <github.com/bengoebel/WaterMazeTest>
- Researched the spatial memory of mice; modeled mice performance on the Morris Water Maze Test, a spatial navigation task created by Richard G.M. Morris
- Created a model, using reinforcement learning, in Python and visualized the results using Matplotlib
- Wrote a paper and designed a poster discussing the research

Baseball-Analytics, Aug. 2017, <github.com/bengoebel/Baseball-Analytics>
- Implemented a Python program, using Python data science libraries, comprised of functions to enable users to analyze and visualize the 2016 MLB team and player data
- Used pandas to import, access and aggregate MLB data; used Matplotlib to create line and bar graphs of MLB data