

TANGIRUL ISLAM

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EDUCATION:

City University of New York, Graduate School of Public Health

Master of Public Health in Epidemiology and Biostatistics

New York University, College of Arts & Science

Bachelor of Arts in Public Policy | Minors: Chemistry & Child & Adolescent Mental Health

The Bronx High School of Science

SKILLS: Python(PySpark,Scikit-Learn, Tensorflow), SQL, GraphQL, R (Bioconductor), Shinyapps, Looker, Google Analytics, Tableau, SAS, SPSS, Microsoft Office Suite: (Excel, Word, PowerPoint, Access),

COURSEWORK: Data Analysis & Visualization, Statistics and Probability, Database Design and Management, Machine Learning, Regression, Survival Analysis, Time-Series Analysis, Study Design, Risk Assessment

WORK EXPERIENCE:

Population Health Analyst - NYU Langone Health

January 2020 - Present

- Analyze national student health data to identify trends and build policy recommendations for higher education
- Design and maintain a dynamic shinyapp dashboard that displays student health metrics for partner institutions
- Construct and maintain clear documentation libraries to support workflow process, ETL and data validation
- Create SQL queries and automation scripts used for Tableau dashboards that display KPI's related to COVID-19
- Visualized contact tracing, testing, and vaccination compliance efforts; improving staff ability to monitor COVID-19

Research Assistant - Waldron Lab for Public Health Data Science at CUNY SPH

May 2021 - December 2022

- Curated microbial signatures and key study features from published microbial studies related to rheumatoid arthritis
- Conducted a meta-analysis using clustering methods, regression, and binomial tests using R Bioconductor packages
- Tested the association between the differential abundance of oral taxa in stool samples of arthritis patients using count models and linear discriminant analysis from data collected through curatedMetagenomicData

Program Coordinator - Khan Foundation NYC

March 2017 – August 2018

- Established longitudinal monitoring and program assessment tools that highlighted student success
- Visualized data to showcase program effectiveness; used for internal stakeholders and marketing efforts
- Developed signature and sustainable curriculum-based programming for College Access Program centered around student character, student well-being, knowledge, and skills relevant to the college admissions processes
- Acquired expert knowledge in interpersonal communication between families and students in order to ensure academic achievement, professional development, and wellbeing

Research Analyst - NYU Center for Neural Science, Wendy Suzuki Lab

August 2016 – May 2017

- Researched the effects of different levels of exercise on memory function, baseline stress-hormone levels (i.e. cortisol), acute stress responses and mood amongst college students and analyzed data using regression models
- Conducted VO2 max tests, mood questionnaires, spatial navigation tasks, long term memory tasks, associated learning tasks, stress tests, collected saliva samples and assisted with volunteer recruitment

Research Assistant - NYU Center for Genomics & Systems Biology

April 2013 – January 2015

- Studied the phenotype plep-1 gene in c. elegans and theorized and tested its various [evolutionary advantages](#)
- Visualized phylogenetic trees and helped design mixed-effect generalized linear models for genetic analysis using R
- Performed lab protocols including PCR, CRISPR, enzyme purification, and microinjections on gonads