Imtiaz Rashid

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EDUCATION

The University of Texas at Austin   Austin, TX
Bachelor of Science (B.Sc.) in Human Biology   Expected May 2022

Coursework: Biology & Chemistry with lab, Genetics, Organic Chemistry with lab, Microbiology with lab, Cell Biology, Human Biology, Biochemistry, Evolution, Health & Society, Biostatistics, Computational Biology & Bioinformatics

SKILLS

Laboratory: Cell Culturing, Fast Protein Liquid Chromatography (FPLC), Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis (SDS PAGE), Enzyme Linked Immunosorbent Assay (ELISA), Rotary Evaporator
Software: R (RStudio, R Markdown, tidyverse, dplyr, ggplot), Python (Jupyter Notebooks, numpy, pandas, seaborn, matplotlib), Microsoft Office (Word, Excel, PowerPoint)

EXPERIENCE

Austin Community College   Round Rock, TX
Biotechnology Lab Collaborator   June 2020 – August 2020
- Researched quality assurance & the upstream & downstream components of the biomanufacturing process following standard operating procedures (SOP), batch records, & validation records
- Isolated anti-IL-8 antibody from suspended & adherent CHO-DP12 cells cultured in media via cell concentration, FPLC, SDS PAGE & ELISA for simulated commercial purposes in a biotechnology setting
- Trained in Biosafety Level 2 (BSL-2) laboratory utilizing instruments i.e., bio wave reactor, hemocytometers, etc.

UT Austin Freshman Research Initiative, under Dr. Moriah Sandy   Austin, TX
Undergraduate Research Assistant   January 2019 – May 2020
- Surveyed natural sources such as endophytic fungi in collaboration with the city of Austin for bioactive molecules that have medicinal/agricultural potential to be developed into commercially valuable products
- Coordinated with principal investigator to create content, execute techniques & procedures while aiding new students to develop laboratory skills & partake in independent research projects
- Designed research poster & presented findings at university-wide Undergraduate Research Forum in Spring 2020

Baylor Scott & White Medical Center   Irving, TX
Pharmacy Technician Trainee   August 2017 – May 2018
- Counted, measured, & compounded medications following standard procedures under aseptic conditions
- Restocked automated medication dispensation equipment, reviewed expiration dates & ordered products
- Observed pharmacists verifying dosages, handling drug storage, refill authorizations & enter patient info

PROJECTS, PROGRAMS & ACTIVITIES

Examining the 2016 U.S. Election (https://github.com/imtiazrashid/myrepo)   January 2021 – May 2021
Project Leader
- Designed & ran statistical models within an exploratory data analysis to identify & explain demographic factors that influenced & ultimately led to the outcome of the 2016 U.S. presidential election
- Conducted exploratory data analysis, visualization & wrangling, clustering (PAM, k-means), dimensionality reduction, statistical modeling/regression (linear & logistic), hypothesis testing (t-tests, ANOVA, MANOVA), randomization tests, bootstrapping, binary classification & cross-validation to interpret data & findings in context
- Processed datasets, maintained databases, & cleaned data with R (tidyverse, dyplr) & Python (numpy, pandas)

- Displayed & communicated results through visualizations & self-created graphics using R (ggplot) & Python (seaborn, matplotlib)

Global Health Alliance (GHA)   September 2020 - Present
Member
- Volunteered at Casa Marianella, a shelter for displaced immigrants and refugees in Austin, by sorting donations, cleaning the shelter facility, conducting food bank delivers & giving rides to medical/legal appointments
- Fundraised for Casa Marianella to fund a social worker for victims of human trafficking & domestic abuse

UT COVID-19 Modeling Consortium Project   November 2020
Participant
- Worked along a network of researchers & health professionals in building models to detect, project, & combat COVID-19 by tracking cases in Austin and counties in Texas to project mortality rates & provide decision-support analyses for leaders & policymakers on issues such as reopening schools
- Researched measures introduced by governments to contain the spread of COVID-19 & assess their efficacy

International Healthcare Expenditure Project   January 2020 – May 2020
Project Leader
- Designed, ran, analyzed, & presented novel research into the relationship between health expenditure & human development while critically evaluating scientific studies for biases, ethical considerations, & limitations
- Mastered the use & understanding of several statistical concepts including t-tests, chi-square tests, correlation, regressions, & ANOVAs while developing proficiency in using the statistical program R

HONORS & AWARDS

Presidential Scholars, TIP Scholar of Academic Excellence, Dean's Honor List (4x), UT Austin
Recipient, S-Stem Fellowship, National Science Foundation