Arham Salman

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EDUCATION

The University of Texas Health Science Center Houston | GPA: 4.0 — May 2026
Master of Science in Biostatistics & Data Science | Coursework: Biostatistics, Epidemiology, Linear Regression.

The University of Texas at Austin | GPA: 3.4 — May 2024
Bachelor of Science in Public Health | Coursework: Data Science, Public Health, Calculus, Linear Algebra, Programming.

RESEARCH EXPERIENCE

UTMB Summer Institute of Biostatistics & Data Science — Jun 2023 – Jul 2023
Research Intern

- Conducted team research under National Institute of Health (NIH) funded program and determined crucial biomarkers and how their relationship with household income has implications on the development of cardiovascular disease through literature review, exploratory analysis, logistic regression, and machine learning algorithms using R.
- Found significant difference in blood pressure and HBA1C levels among rich and poor household incomes by adjusting for age, gender, BMI, and race.
- Collaborated with the UTMB School of Population and Public Health to present findings at a research symposium.

The University of Texas at Austin, SHIFT Program — Jan 2023 – May 2023
Research Intern

- Performed literature review concerning adolescent drinking habits and developed a survey to determine key stakeholders in Austin to contact about substance and alcohol use among college students.
- Collected over 100 responses through Qualtrics from students on campus and created data visualizations through Excel to present findings.

PROJECTS

Navajo Indian Reservation Intervention Program — Jan 2023

- Led research and interviewed Navajo Indians living on reservations to create health interventions such as water filtration devices and community gardens that improved living conditions.
- Presented findings to board members of the Texas Department of State Health Services (DSHS).

Risk Factors Associated with Low Birthweight — Nov 2024

- Analyzed data from Baystate Medical Center to assess risk factors such as race, smoking, hypertension, and preterm labor on low birthweight through descriptive tests, two sample t-tests, and fitted multiple regression model using STATA.
- Results indicated health disparities among people of color and smokers at Baystate Medical Center.

Soccer Team Performance Data Analysis — May 2023

- Conducted comprehensive analysis of soccer statistics from top 5 European leagues using data tidying, dplyr wrangling, k-means clustering, PCA reduction, and logistic regression.
- Identified top goal-scoring efficiency and defensive stability through goals scored and conceded, revealing Bayern München as the most well-rounded team over the 5-year period based on key performance indicators.

LEADERSHIP & COMMUNITY INVOLVEMENT

Society of Asian Scientists and Engineers (SASE) Texas — Jan 2022 – May 2024
Family Head

- Organized and led weekly social events for over 40 members, tailored to their diverse interests and schedules.
- Created and captained SASE Intramural Basketball Team with over 20 players and a player for SASE Intramural Volleyball Team that helped lead team to playoffs by averaging 3 points a game.

Texas Muslim Student Association (MSA) — Jan 2023 – May 2023
Data Analyst

- Utilized Microsoft Excel to analyze Instagram insights to predict trends and determine areas of engagement to capitalize on with marketing team, gaining 150+ followers within a semester.
- Attended leadership programs and volunteered to serve dinner during Ramadan and promoted inclusivity by reaching out to and befriending new members.

SKILLS

Technical /Computer Skills: R, STATA, SAS, SQL, Microsoft Word, Microsoft Excel, Python
Laboratory Skills: Gel electrophoresis, Titration, Inoculation, Plaque assay for antibody forming cells, ELISA
Languages: Fluent in Urdu and English