

Mehr Shafiq

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EDUCATION

Columbia University, Mailman School of Public Health, New York, NY

April 2021

Master of Public Health (MPH), Epidemiology, Certificate in Public Health Research Methods

Awards: Dean's Scholar Merit Award Recipient

Relevant Courses: Data Science I | Applied Epidemiologic Analysis | Public Health GIS | Analysis of Categorical Data, Research Design & Data Collection | Qualitative Data Analysis | Research Methods & Application | Applications of Epidemiologic Research Methods | Design & Conduct of Observational Epidemiological Studies

Lahore University of Management Sciences (LUMS) Lahore, Pakistan

June 2019

Bachelor of Science (BS), Biology

Thesis: The Bactericidal Effect of Organic Compounds on Antimicrobial Resistant Strains of *Streptococcus pneumoniae*

Conducted research to investigate the bactericidal activity of two organic compounds on *Streptococcus pneumoniae* as alternative agents to antibiotics. Their antibacterial activity was investigated on 10 patients' isolates with different resistance profiles.

EXPERIENCE

Yale Institute for Global Health | Postgraduate Associate | New Haven, CT

June 2020 – Present

- Provide research support in several COVID-19 related epidemiological studies including U.S. adults' risk perception of the disease and COVID-19 transmission in U.S. childcare programs
- Clean and presents survey data using SAS and Excel to prepare for publication
- Use logistic regression, propensity score matching, model fit of regression models to analyse data
- Conduct literature reviews to write discussion section of research manuscripts
- Develop questions for online surveys using Qualtrics for research study
- Draft IRB protocols, and collaborate with multiple departments at university from diverse academic fields such as public health, child study, medicine, and economics

Columbia University School of Public Health | Teaching Assistant | New York, NY

June 2020 – Present

- Provide technical support to 3 professors in Global & Developmental Perspectives course to help develop online content using Articulate Rise 360 (an interactive eLearning software) for the fall semester of 2020
- Assist with grading, and holding weekly office hours for 45 students

LUMS | Teaching Assistant | Lahore, Pakistan

January – May 2017 & January – May 2019

- Provided tutorials and mentoring for 30 students in Introductory Biology course to improve their understanding of complex scientific material

Project Management Unit for Punjab Public Health Agency | Intern | Lahore, Pakistan

June – July 2018

- Conducted literature reviews and compiled background information on 32 notifiable diseases of Pakistan's most populous province, Punjab, including HIV, TB, malaria, polio and rabies
- Analyzed data on Punjab's population of around 110 million individuals, on topics such as mortality and morbidity rates

Neuroscience Inheritance Research Group | Research Intern | Lahore, Pakistan

December 2017 – January 2018

- Assessed orphans, ages 3 to 12, at *SOS Village* to detect changes in the amount of circulating microRNAs
- Analyzed collected samples by following research protocols to accurately determine levels of microRNAs
- Determined that children with depression show an increase in certain circulating microRNAs and a decrease in high density lipoprotein levels in their blood and saliva

SKILLS

Languages: Urdu and Hindi

Computer & Programming: MS Office (Word, Excel, PowerPoint), R, GIS, SAS, MATLAB

Other: Qualtrics, Rise 360