

Dureshahwar Waseem

Lecturer

To contribute my knowledge, experience, and expertise towards academic and research excellence, with a special emphasis on research analysis, modern technological applications, and innovative methodologies.

Education

2020 - 2022

MS in Bioinformatics

Mohammad Ali Jinnah University,
Karachi, Pakistan.

2016 - 2019

BS in Bioinformatics

Baqai Institute of Information
Technology, Baqai Medical University,
Karachi, Pakistan.

Teaching Expertise

Natural Language Processing

Artificial Intelligence

Bioinformatics

Bioinformatics Computing

Professional Experience

June 2025-Present

NED University of Engineering and Technology (NEDUET)

Lecturer

Department of Computer Science and Information Technology (CSIT).

January 2023 - May 2025

Aga Khan University Hospital (AKUH):

Data Analyst

- Responsible for the supervision of overall quality control and assurance of data for all field sites.
- Supervise data entry of collected forms from various sources such as paper documents, electronic data entry systems and handheld devices.
- Respond to data related inquiries received from project personnel regarding relevant project issues and procedures.
- Organize discussions and meetings with project implementation and field staff for any clarifications and queries related to data management.

January 2022 - December 2022

Baqai Institute of Information Technology, Baqai Medical University

Visiting Lecturer:

- Prepared and delivered lectures to undergraduate students on topics such as biological databases & data management, R and python programming, Microarray data analysis, Bioconductor packages, and Machine learning.
- Maintained up-to-date knowledge in the field by engaging in scholarly literature and participating in professional conferences to enhance teaching materials.
- Employed innovative teaching strategies that foster student engagement and accommodate diverse learning styles, promoting academic success and critical thinking skills.

January 2021 - December 2021

Baqai Institute of Information Technology, Baqai Medical University
Admission Officer

- Provide practical advice and assistance with the completion of admission forms, as required to meet individual applicants' needs
- Maintain appropriate records, including details of student inquiries, admission forms, and interviews, using both manual and electronic systems as appropriate
- Arrange interviews where these are required and manage correspondence with applicants.

January 2020 - March 2020

Aga Khan University Hospital (AKUH):

Research Internee

- Provide practical advice and assistance with the completion of admission forms, as required to meet individual applicants' needs
- Maintain appropriate records, including details of student inquiries, admission forms, and interviews, using both manual and electronic systems as appropriate
- Arrange interviews where these are required and manage correspondence with applicants.

Technical Expertise

Stata
SQL
Python
R language
Java
C++
Data Management
Data Cleaning and Analysis

Language

English
Urdu

Research Projects

Department of Paediatrics and Child Health - AKUH

- Karachi Enteric Pathogen Surveillance (KEPS).
- Measles Seroprevalence.
- Azithromycin Cefixime Phase IV Clinical Trial.
- Randomized Controlled trial to assess the immunogenicity, safety and reactogenicity of full dose versus fractional dose of Pfizer/BioNTech, AstraZeneca, and Sinovac-CoronaVac COVID-19 vaccines.

FYP Thesis:

- Pan-Genome Analysis of *Bacillus licheniformis* to Find Patterns in Industrially Important Genes.
- Predicting MoRFs in protein Sequences using Machine Learning Algorithms.

Journal Publication:

Iqbal Azimuddin, Syed Muhammad and Waseem, Dureshahwar, Pan-Genome Analysis of Bacillus licheniformis to Find Patterns in Industrially Important Genes (August 28, 2023). Azimuddin, Syed Muhammad Iqbal, and Dureshahwar Waseem. "Pan-Genome Analysis of Bacillus licheniformis to Find Patterns in Industrially Important Genes." PAKISTAN JOURNAL OF BIOCHEMISTRY AND MOLECULAR BIOLOGY 56.1 (2023): 21-36. <https://ssrn.com/abstract=4553544>