

Yumna Sajid

Email: yumnastats@neduet.edu.pk

Academic Qualifications

Ph.D.	Statistics (In progress) University of Karachi
M.S.	Applied Mathematics, 2018 NED University of Engineering & Technology
M.Sc.	Statistics, 2014 University of Karachi, Pakistan
B.Sc. (Hons)	Statistics, 2013 University of Karachi, Pakistan
HSC	Pre-Engineering, 2010 Board of Intermediate Education Karachi
SSC	Science Group, 2008 Board of Secondary Education Karachi

Work & Experience

Lecturer (Contract), NED University of Engineering & Technology, Karachi, Pakistan.
Duration: 15-06-2023 to date.

Teaching Associate, University of Karachi.
Duration: 02-10-2019 to 14-06-2023

Cooperative Teacher, NED University of Engineering & Technology, Karachi, Pakistan.
Duration: 29-12-2015 to 28-02-2019

Visiting lecturer, Dadabhoy Institute of Higher Education.
Duration: 6 months.

External Reviewer, Agha Khan Examination Board.
Duration: 1.5 months.

Research Publications

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| 2023 | An examination of impact of gold and oil prices on the stock markets indices during COVID-19, International Journal of Financial Engineering. |
| 2021 | A Quantitative appraisal of sediment contamination at Karachi Coast, Pakistan, International Journal of Biology & Biotechnology. |
| 2021 | Wavelet based Statistical and Mathematical Analysis of Spread of COVID-19, Advancements in Life Sciences, International Quarterly Journal of Biological Sciences |

- 2021 Covid-19 and currency market: a comparative analysis of exchange rate movement in China and USA during pandemic, Published by Taylor & Francis in Journal of Economic Research-Ekonomska Istrazivanja (RERO)
- 2019 Analysis of the Relationship between Oil, Gold and Inflation (A Case Study of Pakistan), International Journal of Current Research, *Vol. 11, Issue, 04, pp.3296-3302, April, 2019*

Course Studied in Ph.D. in Statistics

- Hierarchical Linear Modeling (HLM)
- Advanced Multivariate Analysis
- Panel Data analysis

Research work in M.S (Applied Mathematics)

- Application of Time Series on Economic Data.

Elective Course Studied in Master in Applied Mathematics

- Fuzzy Logic & Neural Networks
- Graph Theory
- Operational Research
- Simulation & Modeling

Elective Course Studied in Master in Statistics

Following courses elected during the Master in Statistics:

- Econometrics
- Time Series
- Operations Research

Major Courses:

- Sampling distribution
- Sampling Techniques
- Probability Theory
- Theory of inference
- Elementary Linear Algebra
- Distribution Theory

Computer Skills

- Microsoft Office
- Minitab
- E-views
- Stata
- SPSS
- Matlab

Professional Experience

Courses taught

Course	Department(s)	Level of Students
Pharmaceutical Statistics	Department of Pharmacy, University of Karachi	M.Phil.
Bio-Statistics	Department of Bio Technology, University of Karachi	Third Year
Introduction to Statistics	Department of Marine Science, University of Karachi	First Year
Applied Probability & Statistics	Civil Engineering, Polymer & Petrochemical Engineering, NED University of Engineering & Technology	Second Year
Probability & Statistics	Computer & Information Systems Engineering, NED University of Engineering & Technology	Third Year
Statistical Inference	Development Studies, NED University of Engineering & Technology	Second Year
Business Mathematics	Management Sciences	First Year

Workshops & Conferences

- Attended 12th International Conference on Statistical Science at Dow University of Health Sciences.
- Attended 14th International Conference on Statistical Sciences at JSMU.
- Attended Workshop of SPSS jointly organized by JSMU & ISOSS.
- Attended Workshop on STATA Software jointly organized by JSMU & ISOSS.

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