

# Yumna Sajid

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## **Academic Qualifications**

<b>Ph.D.</b>	<b>Statistics (In progress)</b> University of Karachi
<b>M.S.</b>	<b>Applied Mathematics, 2018</b> NED University of Engineering & Technology
<b>M.Sc.</b>	<b>Statistics, 2014</b> University of Karachi, Pakistan
<b>B.Sc. (Hons)</b>	<b>Statistics, 2013</b> University of Karachi, Pakistan
<b>HSC</b>	<b>Pre-Engineering, 2010</b> Board of Intermediate Education Karachi
<b>SSC</b>	<b>Science Group, 2008</b> 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: 16-07-2016 to 28-02-2019

**Part time Teacher**, NED University of Engineering & Technology, Karachi, Pakistan.  
Duration: 29-12-2015 to 30-04-2016.

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

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

## **Research Publications**

- 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-Ekonomiska 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

### **Language Proficiency**

- English
- Urdu

### **Professional Experience**

Courses taught

<b>Course</b>	<b>Department(s)</b>	<b>Level of Students</b>
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 12<sup>th</sup> International Conference on Statistical Science at Dow University of Health Sciences.
  - Attended 14<sup>th</sup> 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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