

CURRICULUM VITAE

NIGHAT ZAHRA D/O SYED AEJAZ HUSSAIN

PERSONAL DETAILS:

Spouse Name: Dr. Muhammad Kashif Ali Shah
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ACADEMIC QUALIFICATIONS:

- PhD in the year 2016 from Thammasat University Rangsit Center, Thailand.
- M.Phil in the year 2005 from GC University Lahore, Pakistan.
- M.Sc in the year 2001 from Government College Lahore, Pakistan.

PhD THESIS:

Improved Estimation Strategies of Kurtosis Parameters Using Uncertain Prior Information

M.Phil THESIS:

The Forecast Models for Energy Generated, Consumed and Number of Consumers

M.SC THESIS:

Selection of Suitable Forecasting Method for the Stock Price Index Data

RESEARCH PAPERS:

- Efficient Estimation Strategies for Estimating the Shape Parameters of the Birnbaum-Saunders Distribution Using Shrinkage Preliminary Test Type Estimators, Lobachevskii Journal of Mathematics, Vol. 45, No. 9, 2024 pp. 4207-4215
- Optimizing Robust Shape Parameter: Improved Methodologies for Birnbaum-Saunders Distribution, Journal of Statistical Theory and Practice, **18**, 38 (2024).
- On the Simultaneous Estimation of Weibull Reliability Functions, Proceedings of the Thirteenth International Conference on Management Science and

Engineering Management. ICMSEM 2019. Advances in Intelligent Systems and Computing, vol 1001. Springer, Cham.

- Estimation of Kurtosis Parameters of Multivariate Populations, Statistics and Applications, Vol. 18, No. 2, 2020 (New Series), pp. 353-368
- Meta-Analysis, Pretest and Shrinkage Estimation of Kurtosis Parameters, Communication in Statistics-Simulation and Computation, Vol. 46 (10), 2017, pp. 7986-8004
- Improved Estimation of Kurtosis Parameters for Two Multivariate Populations, Lobachevskii Journal of Mathematics, Vol. 38, No. 1 (2017), 110-115
- The Forecast Models for Energy Generated, Consumed and Number of Consumers European Journal of Scientific Research ISSN: 1450-216X Volume 15, No 4 December, 2006 PP 432-435
- Selection of Suitable Forecasting Method for the Stock Price Index Data, Journal of Statistics Department of Statistics Government College University Lahore. Vol.10, No.1(2003) PP-39-46

WORK EXPERIENCE:

- Assistant Professor in Statistics, GC University Lahore since Nov 09, 2007 to date.
- Lecturer in Statistics, GC University Lahore from July 26 2003 to Nov 08, 2007
- Research Assistant in Department of Statistics, GC University, Lahore for about Nov 01, 2001 to May 31 2003
- Taught tutorial classes of TU-155 in Faculty of Architecture and Planning, Thammasat University Rangsit Center, Thailand.

PROJECT:

Stabilizing the Performance of Skewness Estimators by ORIC GC University, Lahore, Pakistan.

CONFERENCE PRESENTATIONS:

- Presented a research study titled “Simultaneous Estimation of Kurtosis Parameters of k Univariate Normal Populations” in International Conference on Applied Statistics (ICAS) 2016 at Phuket Graceland Resort & Spa, Phuket Thailand on July 13-15, 2016.

- Presented a research study titled “Simultaneous Estimation of Kurtosis Parameter from Multivariate Populations” in 14th International Conference on Statistical Sciences at Jinnah Sindh Medical University, Pakistan held on March 14-16, 2016.

TRAININGS RECEIVED:

- ‘Advancing Teaching Excellence’ Strategies for Effective Higher Education Instructions and Professional Development, Organized by Punjab Higher Education Commission, 24-26 July, 2023.
- Essential Consultancy Skill Course, Asian Institute of Technology, 19-20 October 2015.
- Advance Faculty Professional Development Program: Ensuring Training Effectiveness from March 07-25, 2011 organized by AIT Extension Thailand.
- MT – FPDP Alumni organized by Higher Education Commission Pakistan from October 12-24, 2009
- HRDC – Cycle IV Training Program organized by QEC, GC University Lahore Pakistan from April 09-11, 2009
- English Communication Skill Course by GC University Lahore Pakistan from July 03 to August 31, 2007
- In Service Teacher’s Training Program organized by HRDC GC University Lahore Pakistan from September 2005 to May 2006
- A special course of five weeks on Stochastic Processes organized by Department of Statistics GC University, Lahore in collaboration with HEC Pakistan from June 12 to July 10, 2006.
- In Service Teachers Training Course organized by GC University Lahore, Pakistan from April 17-22, 2006
- Project Cycle Management Workshop organized by Asia Link in Karachi Pakistan from Nov 28-30, 2005
- Faculty Development Training Program organized by Higher Education Commission Islamabad Pakistan from March 14 to June 11, 2005
- In Service Training Course organized by Higher Education Commission Pakistan from May 10 to May 15, 2004

INVITED TALK:

A talk on the topic of Impact Evaluation Manual: Simplifies Statistical Methods given at Asian Institute of Technology Thailand, May 16, 2016.

TRAININGS CONDUCTED:

- One Day Workshop on Assessment in Higher Education on April 25, 2009 in Department of Statistics GC University Lahore
- Three Days Cascading Training Program on Ensuring Training Effectiveness, from Sep 12-14, 2011 in GC University Lahore.

CONFERENCES ATTENDED:

- International Conference on Applied Statistics 2016, dated July 13-15, 2016, organized by Department of Mathematics and Statistics, Thammasat University, Thailand.
- 14th International Conference on Statistical Sciences, dated March 14-16, 2016, jointly organized by Jinnah Sindh Medical University Pakistan and Islamic Countries Society of Statistical Sciences.
- International Conference on Statistical Sciences 2015, dated July 15-17, 2015, organized by KMUTT Thailand.
- 19th Annual Meeting in Mathematics 2014, dated March 20-22, 2014 organized by Department of Mathematics and Statistics, Thammasat University Thailand.
- International Conference on Applied Statistics 2013, dated May 14-19, 2013 organized by Department of Mathematics Mahasarakham University Thailand.
- 5th International Conference on Statistical Sciences, Mathematics, Statistics & Applications 2009, from January 23-25, 2009 organized by National College of Business Administration & Economics and Islamic Countries Society of Statistical Sciences (ISOSS)
- One Day Symposium on Mathematical Statistics & Real Data Analysis on November 01, 2008 organized by Department of Statistics Lahore College for Women University, Lahore
- International Conference on Statistical Sciences with Special Reference to Survival Data Analysis 2007, from November 7-8, 2007 organized by Department of Statistics GC University, Lahore in collaboration of Higher Education Commission (HEC) and Pakistan Science Foundation.

- International Conference on Statistical Data Produced and Applications of Statistics 2007 from September 3-5, 2007 organized by College of Statistical and Actuarial Sciences, University of the Punjab, Lahore
- 1st International Conference on Statistics and Operation Research 2006 from April 3-5, 2006 organized by Institute of Statistics University of the Punjab, Lahore.
- 1st National Conference on Statistical Sciences October 18, 2003 organized by Department of Statistics GC University, Lahore.

DUTIES BEING PERFORMED:

Teaching at M.Phil, M.Sc and Graduation levels in GC University, Lahore, following is the list of courses taught;

Level	Course Title
M.Phil	Regression Methods, Linear Models
BS STATISTICS	Econometrics, Regression Analysis, Non-Parametric Methods, Categorical Data Analysis, Introduction to Hypothesis Testing, Introduction to Probability Theory, Basic Statistical Inference, Applied Statistics, Basic Statistics with MS-Excel
BS (Banking & Finance, Economics, International Relations, Media Communication, Medical Laboratory, Psychology, Political Science, Electrical Engineering)	Introductory Statistics, Basic Statistical Inference, Applied Statistics, Quantitative Reasoning, Introduction to Probability and Probability Distributions

ADMINISTRATIVE ASSIGNMENTS PERFORMED:

1. B.A / B.Sc. Program Coordinator
2. Program Team Leader Quality Enhancement Cell
3. In-charge Office Work at Departmental level
4. Member Proctorial Board
5. Member Faculty Evaluation
6. Supervisor University Class Work
7. Girls Students Advisor Department of Statistics

RESEARCH WORK SUPERVISED:

BS (Hons)/ M.Sc.

1. A Case Study based on Post Covid Health Complications in Patients of Fatima Memorial Hospital Lahore, Nayyer Waseem, Roll No. 3030-BS-STAT-21
2. A Case Study Based on Breast Cancer Patients of Fatima Memorial Hospital Lahore, Alishba, Roll No. 3040-BS-STAT-21
3. An Internship Report on the Analysis of the Production of Chari Fodder Data from Crop Reporting Service, Punjab, Marriam Akbar, Roll No. 3026-BS-STAT-21
4. An Analysis of the Yield of Potatoes Data from Crop Reporting Service, Punjab, Saiba Ghulam Nabi, 3039-R-BS-STAT-21
5. Time Series Analysis of the Yield of Maize Crop Data from Crop Reporting Service, Punjab, Shaher Bano, Roll No. 3013-R-BS-STAT-21
6. An Internship Report on the Analysis of the Yield of Tomatoes Data from Crop Reporting Service, Punjab, Rizwa Khan, Roll No. 3033-BS-STAT-21
7. An Analysis of the Yield of Mangoes Data from Crop Reporting Service, Punjab, Mishal Akram, 3009-BS-STAT-21
8. An Analysis of the Vitamin D Deficiency among Prenatal and Postpartum Mothers Consulting Fatima Memorial Hospital Lahore, Maliha Fatima & Maryam Imran, Roll No. 3006-BS-STAT-21 & 3071-BS-STAT-21
9. Time Series Analysis of the Production in Footwear Industry: A Data Set from Bureau of Statistics Punjab, Ayesha Waseem, Roll No. 3004-BS-STAT-21
10. An Internship Report on the Growth Rate of Service Sector Data from Bureau of Statistics Punjab, Bisma Malik, Roll No. 3007-BS-STAT-21

11. An Analysis of the Production of Cotton Textile Industry: A Data Set from Bureau of Statistics Punjab, Maria Hassan, Roll No. 3044-BS-STAT-21
12. Cotton Yield Analysis: A Data Set taken from Bureau of Statistics Punjab, Aiman Anjum, Roll No. 3062-BS-STAT-21
13. An Analysis of Clinker and Cement Industries Data of the Punjab Pakistan, Rabia Iqbal, 1348-BH-(E)-STAT-20
14. A Time Series Analysis of Enrollment in Commercial Training Institutes of the Punjab Pakistan, Ammara Saeed, 1343-BH-(E)-STAT-20
15. Multiple Regression Analysis on Main Crops of Pakistan, Misbah Arshad & Sadia, Roll No. 1513-BH-STAT-19 & 1509-BH-STAT-19
16. Analysis of Risk on Health of People Due to Smog (A Study based on Lahore)
17. Model Building and Forecasting of Production of Citrus Fruit in Pakistan
18. Analysis of Factors Affecting Production of Wheat, Rice and Cotton in Pakistan by using Regression Analysis
19. Model Building and Forecasting of Pakistan's Leather Exports.
20. Selection on Suitable Forecast Models for the Consumption of Crude Oil, Natural Gas and Coal
21. Analysis of Factors Affecting the Production of Kinnow (Citrus) in Punjab Pakistan
22. The Forecast Models for Number of Electricity Consumers by Economic Group, M.Sc Student.
23. Factors Contributing Towards Stress Among Lady Doctors, Unmarried and Married, M.Sc Student.
24. Selection of the Suitable Forecast Model for Daily Gold Price Data, M.Sc Student.
25. Attitude of Students Towards Self Medication: A Case Study Based on GC University, Lahore. M.Sc Student.
26. Bank Credit to Public and Private Sector: An Econometric and Time Series Empirical Study, M.Sc Student.

MPhil

1. Factors Contributing to Anxiety Disorders Among University Students, Misbah Abaidullah, 0559-MPHIL-STAT-21
2. Survey Research Based on the Factors Affecting the Children, Living in Orphanage, Mariyam Kashaf Jamil, Roll No. 0567-MPHIL-STAT-21

3. A Comparison of Various Estimation Strategies Related to Pareto Distribution: A Numerical Study, Syed Ali Rehbar, Roll No. 0581-R-MPHIL-STAT-20
4. Joint Estimation of Skewness and Kurtosis using Non-Sample Information (NSI), Hamna Ehsan, Roll No. 0558-MPHIL-STAT-18
5. On the Improved Estimation of Cronbach's Alpha Using Non-Sample Information, Faiz-e-Alam Saeed, Roll No. 0569-R-MPHIL-STAT-16
6. Short and Long Run Dynamics of Production and Yield of Cotton for Punjab Pakistan
7. Selection of Suitable Forecast Model of Daily Call Volume for Rescue 1122
8. Regression Analysis of Production of Small Medium Enterprises (SME's) in Punjab Pakistan
9. Existing Situation and Consumer Preferences to Pay for Improved Water Supply and Satisfaction with Sanitation Services (A Case Study Based on Iqbal Town Lahore)
10. Selection of Suitable Forecast Model for Consumption Transmission of Natural Gas
11. Factors Affecting the Child Mortality in Punjab Pakistan using Binary Logistic Regression (A Region wise Comparison)
12. A Statistical Assessment of the Role of Community's Learning and Living Environment to Determine Literacy Rate (A Tehsil/Town Level Study of Punjab Pakistan)

OTHER SKILLS:

Command on Statistical Softwares e.g. SAS, R, SPSS, Eviews. I have also passed all the modules of **International Computer Driving License (ICDL)** and hold its certificate.

REFERENCES:

- **Prof. S. Ejaz Ahmed**
Distinguished Professor
Brock University, St. Catharines, ON,
Canada

- **Dr. Kamon Budsaba**

Associate Professor and Director PhD Program

Department of Mathematics and Statistics

Thammasat University (Rangsit Center)

Khlong Luang, Pathumthani, 12120

- **Dr. Supranee Lisawadi**

Assistant Professor and Advisor

Department of Mathematics and Statistics

Thammasat University (Rangsit Center)

Khlong Luang, Pathumthani, 12120