Dr. SYED MOHAMMAD ASIM

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ACADEMIC DEGREES

Ph.D. **(APPLIED STATISTICS)**	**2008, University of Göttingen, Germany**
M.Phil. (BIOSTATISTICS)	2002, Department of Statistics, University of Peshawar, Pakistan .
M.A. (ECONOMICS)	2001, University of Peshawar, Pakistan
M.Sc. (STATISTICS) (with distinction: Gold Medal)	1993, Department of Statistics, University of Peshawar, Pakistan

WORK EXPERIENCE

June 01, 2017 to June 05, 2020		**Chairman**, Department of Statistics, University of Peshawar, Pakistan
May 2011 to May 2014:		**Chairman**, Department of Statistics, University of Peshawar, Pakistan
March 2009 to date	:	**Associate Professor**, Department of Statistics, University of Peshawar, Pakistan
December 2003 to March 2009	:	**Assistant Professor**, Department of Statistics, University of Peshawar, Pakistan
March 2001 to March 2002	:	**Statistician**, National Database and Registration Authority (NADRA) Headquarters, Islamabad, Pakistan (on leave from Department of Statistics)
September 1995 to December 2003	:	**Lecturer**, Department of Statistics, University of Peshawar, Pakistan
December 1993 to September 1995	:	**Lecturer (ad hoc basis)**, Department of Statistics, University of Peshawar, Pakistan

RESEARCH INTERESTS:

- Applied Statistics, Biostatistics, Demography (Population Studies), Social Statistics, Econometrics, Multivariate Analysis, Time Series Analysis

TEACHING INTERESTS:

- Population Studies, Multivariate Analysis, Statistical Methods, Econometrics, Research Methods and Skills, Regression Analysis, Time Series Analysis & Forecasting

COURSES CURRENTLY TEACHING (at the University of Peshawar)

- Advanced Multivariate Analysis   (Ph.D. Statistics)
- Categorical Data Analysis   (M.Phil. Statistics)
- Regression Analysis and Econometrics   (M.Sc. Statistics)
- Applied Multivariate Analysis   (M.Phil. Statistics)
- Regression Analysis   (M.Phil. Statistics)
- Statistical Analysis   (M.S./ Ph.D. Computer Science)

COURSES RECENTLY TAUGHT

- Time Series Analysis and Forecasting   (BS Statistics)
- Official Statistics   (BS Statistics)
- Statistical Computing   (M.Phil. Home Economics)
- Biostatistics   (M.Phil. Medical Sciences at KMU Peshawar)
- Multivariate Analysis   (M.Sc. Statistics)
- Biostatistics   (Ph.D. Pharmacy)
- Research Design and Statistics for Applied Linguistics   (MS Applied Linguistics)
- Advanced Statistics for Corpus Linguistics   (MS Computer Science)
- Econometrics   (MBA)

RESEARCH PUBLICATIONS

1. "A Gull Alpha Power Weibull distribution with applications to real and simulated data", **PLoS ONE** 15(6): e0233080. **June 2020**.

2. "Lomax exponential distribution with an application to real-life data", **PLoS ONE**, 14 (12): e0225827. **December 2019**.

3. "Toward Empirically Investigating Non-Functional Requirements of iOS Developers on Stack Overflow", *IEEE Access*, **2019**, Vol. 7 (2).

4. "Flexible Lomax distribution", **Songklanakarin Journal of Science and Technology (SJST)**, **2019.**

5. "A multicentered Pharmacoepidemiological approach to evaluate clinically significant potential drug-drug interactions in medical intensive care settings in Pakistan", ***Hong Kong Journal of Emergency Medicine***, **2018** .

6. "An Empirical Study of Investigating Mobile Applications Development Challenges", *IEEE Access*, **2018**, Vol. 6 (1).

7. "Statistical Modelling for the determinants of Stunting in Children under-five year of age in Pakistan", *International Journal of Academic Research and Development*, **2018**, Vol. 3 (1), pp: 559-565.

8. "Adoption of Improved Cookstove in Pakistan: A logit analysis", *Biomass & Bioenergy*, **2017**, Vol. 103, pp: 55-62.

9. "Unlicensed and off-label use of drugs in pediatric surgical units at tertiary care hospitals of Pakistan", *International Journal of Clinical Pharmacy*, **2017**, published online on 09 June 2017 (https://doi.org/10.1007/s11096-017-0485-8)

10. "Relationship among Organizational Commitment, Morale and Job Satisfaction of Lecturers serving in Government Degree Colleges of Khyber Pakhtunkhwa, Pakistan ", *Pakistan (Annual Research Journal)*, **2016**, Vol. 52, pp: 214-231.

11. "Impact of Socio-Economic Characteristics of Farmers on access to Agricultural Credit", *Sarhad Journal of Agriculture*, **2013**, Vol. 29, No. 3, pp: 469-476.

12. "Relationship between Organizational Commitment and Job Satisfaction of Teachers Serving as Subject Specialists at Higher Secondary Schools in Khyber Pakhtunkhwa", *The Dialogue* (Journal of Qurtuba University Peshawar), **2013**, Vol. 8, No. 2, pp: 144-154.

13. "Toxicity and Bioaccumulation of heavy metals in Spinach seedlings grown on freshly contaminated soil", *Pakistan Journal of Botany*, **2013**, Vol. 45 (S1), pp: 501-508.

14. "Determinants of Undernutrition in Pakistan: An Investigation into Gender Differentials",

    PUTAJ Sciences, **2012**, Vol. 19, pp: 1-38.

15. "Level of High-Sensitivity C-Reactive Protein in Patients with Chronic Stable Angina", *Journal of Medical Sciences (JMS, KMC, Peshawar)*, **July 2012**, Vol. 20, No. 3.

16. "Potential Drug-Drug Interactions in Psychiatric Ward of a Tertiary Care

    Hospital: Prevalence, Levels and Association with Risk Factors", *Tropical*

    Journal of Pharmaceutical Research, **April 2012**, Vol. 11, No. 2, pp: 289-296.

17. "Bioaccumulation of metals in human blood in industrially contaminated area", a research paper published in *Journal of Environmental Sciences*, **2011**, Vol. 23, No. 12, pp: 2069-2077.

18. "Multivariate statistical analysis of heavy metals pollution in industrial area and its comparison with relatively less polluted area: A case study from the City of Peshawar and district Dir Lower", a research paper published in *Journal of Hazardous Materials*, **2010**, Vol. 176, pp: 609-616.

19. "Drug Utilization Evaluation of Piperacillin/ Tazobactam in a Tertiary Care Teaching Hospital", a research paper published in *HealthMED*, **2010**, Vo. 4, No. 4, Supp. 1, pp: 1044-55

20. "Gender Bias in Mortality in Pakistan: Trends and Determinants 1990-2000", a research paper published in *PUTAJ Sciences*, **2010**, Vol. 17, pp: 1-38.

21. " Problems and Difficulties Faced by Students in Getting Computer Education: A Comparative Study of Public and Private Secondary Schools of District Peshawar",a research paper published in *PUTAJ Humanities and Social Sciences*, **2010**, Vol. 17, pp: 235-245.

22. "Determinants of Infant Mortality in Pakistan: Effect of Mother's Education", a research paper published in *PUTAJ Humanities and Social Sciences*, **2009**, Vol. 16, pp: 163-172.

23. "Problems and Difficulties Faced by Principals and Teachers in the Introduction of Computer Education at the Secondary School Level: A Comparison between Public and Private Schools of District Peshawar", a research paper published in *PUTAJ Humanities and Social Sciences*, **2009**, Vol. 16, pp: 173-186

24. "Impact of Socio-Economic Status of Parents on the Future Education of Primary Schools Children: A Comparison of Public and Private Schools", a research paper published in *Arts and Letters (Research Journal of Arts, Humanities and Literature)*, **2008**, Vol. 8,pp: 9-19.

25. "Ophthalmic Problems in Diabetic Patients: A Statistical Study", a research paperpublished in the *Journal of Science and Technology (JST)*, University of Peshawar, **2003**, Vol. 27.

26. "Preparation of Paracetamol Tablets using PVP-K30 and K90 as Binders", a research paper published in *Acta Pharmaceutica Turcica*, **2003**, Vol.45, pp 137-45

27. "Effect of Cigarette Smoking on Erythrocytes, Leukocytes and Haemoglobin", aresearch Paper published in *Journal of Medical Sciences*, **2003**, Vol. 3 (3), pp 245-250.

28. "All Possible Regression Study of Wheat Crop", a research paper published in Pakistan *Journal of Applied Sciences (PJAS),* **2003**, Vol. 3 (4); pp 236-239.

29. "Statistical Analysis of the Prevalence of Diabetic Retinopathy", a research paper published in the *Journal of Science and Technology (JST)*, University of Peshawar **2002**, Vol. 26, pp 11-15.

30. "Socio-Economic Impacts of Drug Addiction", a research paper published in *PUTAJ*, Vol. 7 & 8, **2000-2001**.

31. "Correlation between the various concentrations of CMC-Sodium as a binder, different disintegrants and physical properties of Paracetamol tablets", a research paper published in *PUTAJ,* Vol. 7 & 8, **2000-2001**.

32. "Drug Addiction: A Statistical Study", a research paper published in *PUTAJ,* Vol. 7 & 8, **2000-2001**.

33. "Detection of Heterozygous Beta Thalassaemia in parents and grand parents of known Beta Thalassaemia major children", a research paper published in *Journal of Postgraduate Medical Institute (JPMI)*, **2001**, Vol. 15 (1); pp 61-65.

Books published

Co-author of "**A Text Book of Statistics for class XII**" published by the NWFP Textbook Board Peshawar in 2002.

Conference Papers

- "Determinants of Gender Bias in Mortality in Pakistan": paper presented at the conference on " Determinants of Gender Bias in Survival and Health Access in South Asia", University of Goettingen, Germany, July 19-20, 2007.

- "Modelling the Gender Bias in Mortality in Pakistan": paper presented at the "5th EUDN Workshop on Development Research for Doctoral Students", Bonn, Germany, May 26-27, 2006.

- "Statistical Analysis of the Prevalence of Diabetic Retinopathy": Paper presented at the 7th Islamic Countries Conference on Statistical sciences, January 2-5, 2001.

Own Theses

- "**Three Essays on the Gender Differentials in Mortality and Undernutrition in Pakistan**": Unpublished Doctoral Thesis in Applied Statistics. University of Goettingen, Germany.

- "**Statistical Modeling of the Incidence of Diabetic Retinopathy**": Unpublished M.Phil. (Statistics) Thesis. University of Peshawar, Pakistan.

- "**Drug Addiction: A Statistical Study**": Unpublished M.Sc. (Statistics) Thesis. University of Peshawar, Pakistan.

Theses Supervised (at University of Peshawar)

Ph. D. (Statistics)

- **Muhammad Ijaz (2017-2020):** Thesis in Progress on the topic "**The Development of new Lif-time Distributions and their statistical properties**"

- **Muneeb Javed (2015-2020):** Thesis in Progress on the topic "**Construction of new Continuous Probability Distributions and their Classical and Bayesian Properties**"

M.Phil. (Statistics)

- **Neelam Arbab (2020):** Thesis in Progress on the topic **"Development of Efficient Estimators for Sensitive Proportion and Mean in Sample Surveys"**

- **Jawadullah (2020):** Thesis in Progress on the topic **"New Ratio and Regression type Estimators using Auxilliary Information"**

- **Bushra Haider (2020):** Thesis in Progress on the topic **"The Development of Efficient Ratio and Product type Estimators using Auxilliary Information"**

- **Mashal (2018): "Statistical Modelling of Child Malnutrition in South Asia"**

- **Nisarullah (2018): "Econometric Modeling of the Factors affecting Balance of Trade of Pakistan"**

- **Mehak Sarfraz (2015): "Neonatal Mortality in Pakistan: A Comparision of Cox Proportional Hazard and Logistic Regression Models"**

M.Sc. (Statistics)

- **Muhammad Ijaz (2013):** "A Statistical Study of the determinants of Age at First Marriage for Females in Pakistan"
- **Sundus Subhan (2013):** " Statistical Modelling of the Desired Family Size in Pakistan"
- **Maryam Hafeez (2013):** "Determinants of Undernutrition in Pakistan: A Statistical Study"
- **Zakia (2013):** "Determinants of Maternal Mortality in Pakistan: A Statistical Study"
- **Mashal (2014):** "Statistical Modelling of the Determinants of Stunting in Pakistan"
- **Zarish Altaf (2014):** "A Statistical Study of the Problems faced by Female Students of University of Peshawar in Local Transport"
- **M. Asif (2016):** " Determinants of the types Tuberculosis in Gigit-Baltistan: A Statistical Study"
- **Iqra Rahim (2016): "**Factors associated with Violence against Women in Pakistan: A Statistical Study"
- **Aashi (2016):** "Determinants of Access to Health Care in Pakistan: A Statistical Study:

BS (Statistics)

- **S. M. Hamid (2014):** "A Statistical Study of Factors influencing Unmet Need for Family Planning in Pakistan"
- **Niamatullah (2014):** "A Statistical Study of Factors influencing Child Immunization in Pakistan"

- **Kifayatullah (2015):** "A Statistical Stusy of Students' Attitude towards Statistics (A case study of University of Peshawar)
- **Kashif Khan (2016):** " A Statistical Study of the Problems faced by students of University of Peshawar at Public and Private Hostels"

LECTURERS/ SEMINARS/ WORKSHOPS DELIVERED

- Resource person for the one-week Intensive Workshop on "**Descriptive and Inferential Statistics through SPSS**" for Faculty members at the Shaheed Benazir Bhutto Women University Peshawar held on April 17-21, 2017.
- Resource person for the one-week Workshop "**Survey Data Analysis using SPSS**" for Faculty members at the Shaheed Benazir Bhutto Women University Peshawar held on February 26- March 02, 2015.
- Resource person for the Module "**Quantitative Techniques using SPSS**" for MCMC course participants in National Institute of Management (NIM) Peshawar since August 2013 to date.
- Resources person for "**Significance and Applications of Statistics in Social Science Research**" at the Research Seminar organized by the Area Study Centre, University of Peshawar at the Baragali Summer Campus on June 19-24, 2013.
- Resources person for "Significance and Applications of Statistics in Social Science Research" at the Research Seminar organized by the Area Study Centre, University of Peshawar at the Baragali Summer Campus on June 12-17, 2012.

- **Resource person for "3-weeks Workshop on Demographic Analysis and Population Projections" in Islamabad On July 11-29, 2011 under the auspices of United Nations Fund for Population (UNFPA), and Statistics Division, Government of Pakistan.**

- Resources person for "Significance and Applications of Statistics in Social Science Research" at the Research Seminar organized by the Area Study Centre, University of Peshawar at the Baragali Summer Campus on June 13-18, 2011.
- Resource Person for the Module "<u>Research-SPSS</u>" at the **15th Master Trainers-Faculty Professional Development Program at Learning Innovation Division (LID), HEC Islamabad: conducted on March 02-03, 2011**

- Resource Person for Seminar on " **Statistics for Quantitative Research**", organized by Peshawar University Teachers Association (PUTA) in 2009.

- Resource person at the Refresher Workshop for college Teachers of Statistics (July 23-29, 2000) at the Department of Statistics, University of Peshawar, where I delivered lectures on "Scope of Statistics", and "Descriptive Statistics".

- "Statistical Techniques for Environmental Data Analysis": a lecture delivered at the department of Environmental Planning and Management (EPM), University of Peshawar in December 1997.

- "Statistical Techniques in Educational Research": a lecture delivered at the Institute of Education and Research (IER), University of Peshawar in November 1996.

- "Drug Addiction in Peshawar City: A Statistical Analysis": a lecture delivered at the First In-Service Refresher Workshop for Statistics Teachers (August 2-5, 1993) at the Baragali Summer Campus, University of Peshawar.

SEMINARS/CONFERENCES/WORKSHOPS ATTENDED

- Got advanced training in demographic data analysis and population projections in the "***Regional Workshop on Demographic Analysis and Population Projections***" in Kathmandu. Nepal in an intensive 3-week workshop from July 26 to August 13, 2010. The training included hands-on practice on demographic software, viz, **PASEX, MORTPAK, FERT, and RUP**.

- Seventh Islamic Countries Conference on Statistical Sciences, Lahore (January, 2-5, 2001)

- "Refreshers Workshop for College Teachers of Statistics", Department of Statistics, University of Peshawar (July 23-29, 2000).

- Sixth Islamic Countries Conference on Statistical Sciences, Lahore (August, 27-31, 1999)

- "National Seminar on Statistical Application in Agriculture and Industry", University of Agriculture, Faisalabad (September 1996)

- "First National Seminar on Recent Developments in Statistics", Baragali Summer Campus, University of Peshawar (July 1995)

- Fourth Islamic Countries Conference on Statistical Sciences, Lahore (August, 26-31, 1994)

- "National Seminar on Education and National Development", Baragali Summer Campus, University of Peshawar (July 1994)

COMPUTER SOFTWARE EXPERIENCE

Working knowledge of the following computer software:

WORDPROCESSING/ SPREADSHEET

- MS WORD, MS EXCEL

STATISTICS (Data Analysis) SOFTWARE/ DEMOGRAPHICSOFTWARE

- SPSS, STATA, SAS, R, BayesX, GRETL, PASEX, MORTPAK, RUP, FERT

LANGAUGES PROFICIENCY

Good spoken and written proficiency in the following languages:

- **ENGLISH, GERMAN (basic spoken), URDU, PASHTO (Native speaker)**

REFERENCES

Academic/ Professional

- **Prof. Stephan Klasen**, Ph.D. , Professor and Head, Chair in Development Economics and member, Centre for Statistics, Faculty of Economic Sciences, University of Göttingen, Göttingen, Germany.
  (Ph.D. Research Supervisor)
  Phone No.: (0049-551) 397303
  sklasen@uni-goettingen.de

- **Dr. Sebastian Vollmer**, Professor of Development Economics, Faculty of Economic Sciences, University of Göttingen, Göttingen, Germany.
  Phone: (0049-551) 398170
  svollmer@uni-goettingen.de

Professional

- **Prof. Dr. Sareer Badshah**, Dean, Faculty of Basic & Social Sciences, , Islamia College University, Peshawar, Pakistan
  Cell No.: (0092) 333-9302402
  sareerbadshah@gmail.com

- **Prof. Dr. Muhammad Abid Khan**, Department of Computer Science, and Dean of the Faculty of Numerical & Physical Sciences, University of Peshawar, Peshawar, Pakistan
  Phone No.: (0092-91) 9216750
  mabid@uop.edu.pk

- **Prof. Dr. Zafar Iqbal**, Meritorious Professor, Department of Pharmacy, University of Peshawar, Peshawar, Pakistan
  Cell No. : (0092) 300-9175458
  zafar_iqbal@uop.edu.pk