DR. MUHAMMAD ASLAM

Professor and Former Chairman

Department of Statistics, Quaid-i-AzamUniversity, Islamabad.

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I. Personal

Father's Name:	Mr. Muhammad Ramzan
Nationality:	Pakistani
Date of Birth:	March 2, 1954
Home Address:	House # A-13, Quaid-i-AzamUniversity Colony, Islamabad.

II. Qualifications

- Doctor of Philosophy in Statistics from University of Wales, U. K. (1996).

- Master of Science in Statistics from University of the Punjab, Lahore, (1978).

- Bachelor of Science with major subjects in Mathematics and Statistics, Government College, Sahiwal, University of the Punjab, Lahore, (1975).

- Intermediate (F.A.) with Mathematics and Statistics, Government College, Sahiwal, Multan Board, (1973).

III. Computer Skill

- User of Statistical Packages: SAS, EXIL and SPSS.

- User of Mathematical Package: MAPLE.

- User of Typing Software: Microsoft Word.

IV. Job Experience

- Professor, Department of Statistics, Quaid-i-Azam University, Islamabad, from Dec. 20, 2003 to-date.

- Chairman, Department of Statistics, Quaid-i-Azam University, Islamabad, from May 12, 2002 to May 31, 2008.

- Associate Professor, Department of Statistics, Quaid-i-Azam University, Islamabad, from May 3, 2002 to December 19, 2003.

- Assistant Professor, Department of Mathematics and Statistics, Quaid-i-Azam University, Islamabad, from December 2, 1988 to May 2, 2002.

- Lecturer/Research Officer, International Institute of Islamic Economics, International Islamic University, Islamabad, from January 18, 1984 to December 1, 1988.

- Lecturer, Department of Statistics, University of Balochistan, Quetta, from March 15, 1980 to January 17, 1984.

V. Financial Experience

- Member of the Finance and Planning Committee, Quaid-i-Azam University, Islamabad (2008-11)

- Member of the Committee for Endowment Fund, Quaid-i-AzamUniversity, Islamabad (2008-14)

- Member of the Investment Committee, Quaid-i-AzamUniversity, Islamabad (20011-14)
- Member of the "Fees Structure Committee", Quaid-i-AzamUniversity, Islamabad (2009-14)
- Being a Chairman of the Department, utilized the development fund amounting to Rs. 1.5 million per year granted by the Higher Education Commission (HEC), Govt. of Pakistan under indigenous Ph. D. scholarships program (2004-2008).
- Worked as a Principal Investigator for the research project entitled "Revamping of Vital Events System in Pakistan" amounting to Rs. 3.5 million funded by HEC (2006-2008).

VI. <u>Teaching Experience:</u>

Have been offering the following courses at postgraduate level since 1980:

i. Statistical Methods	ii. Sampling Techniques
iii. Econometrics/Regression Analysis	iv. Mathematical Statistics
v. Probability Distributions (I and II)	vi. Statistical Inference (I and II)
vii. Statistical Quality Control	viii. Bayesian Inference
ix. Bayesian Decision Theory	x. Non-parametric Methods
xi. Biostatistics	xii. Quantitative Analysis/Statistics

xiii Statistics for Business/Economics/Management

xiv Mathematics for Business/Economics/Management/Pharmacist

<u>Visiting Faculty</u>

Worked as visiting faculty member at the following Universities and Degree Awarding Institutions:

- International Islamic University, Islamabad, (1997-2002).
- COMSATS Institute of Information Technology, Islamabad, (2002-2005).
- PMAS Arid Agricultural University, Islamabad, (2003).
- National University of Science and Technology: NIIT and NIMS, Islamabad, (2002-2006).
- Pakistan Institute of Development Economics, Islamabad, (2008-2010).
- AllamaIqbal Open University (M.Sc. and M.Phil. levels), Islamabad, (2003-2013).
- International Riphah University, Islamabad, (2010, 2012-13).
- Fatima Jinnah Women University, Rawalpindi, (2010, 2012).
- Department of Administrative Sciences, QAU, Islamabad, (2004-2012).
- Department of Anthropology, QAU, Islamabad, (2007-08).
- National Institute of Psychology, QAU, Islamabad, (2009).

VII (a)<u>Research PapersPublished/Accepted</u>

1. Kazmi, S.M.A., **Aslam, M.,** Ali, S. and Abbas, N. (2013), Selection of suitable prior for the Bayesian mixture of a class of lifetime distributions under type-I censored datasets. *Journal of Applied Statistics*, DOI:10.1080/02664763.2013.789831.
2. Altaf, S, **Aslam, M,** and.Aslam, M (2013), Analysis of the amended Davidson model with order effect for paired comparison in the Bayesian paradigm, *Journal of Applied Statistics* http://dx.doi.org/10.1080/02664763.2013.809516.
3. Ali, S., **Aslam, M**.andKazmi, S.M.A. (2013), Heterogeneous data analysis using mixture of Laplace models with conjugate prior, *International Journal of System Science (iFirst),***DOI:**10.1080/00207721.2013.775381.
4. Wakeel, A. and **Aslam, M.,** (2013), Bayesian estimation of rare sensitive attributes.*Thailand Statistician.* 11 (1), 1-13.

5. Feroze, N., **Aslam, M.** and Saleem, M., (2013), Statistical Properties of Two Component Mixture of Topp Leone Distribution under a Bayesian Approach, *International Journal of Intelligent Technologies and Applied Statistics,* 6 (1),.65-100, DOI: 10.6148/IJITAS.2013.0601.05

6. Noor, F. and **Aslam, M.** (2013), Bayesian Inference of the Inverse Weibull Mixture Distribution Using type-I censoring, *Journal of Applied Statistics (In Press).*

7. Danish, M. Y. and **Aslam, M.** (2013), Bayesian estimation for randomly censored generalized exponential distribution under asymmetric loss functions, *Journal of Applied Statistics (iFirst),* DOI:10.1080/02664763.2013.780159.

8. Danish, M. Y. and **Aslam, M.** (2013), Bayesian analysis of randomly censored Burr XII distribution under different loss functions, *Electronic Journal of Applied Statistical Analysis* (In Press)

9. Danish, M. Y. and **Aslam, M.** (2013), Bayesian estimation in random censorship model for Weibull distribution under different loss functions, *Advance in Adaptive Data Analysis, 4 (3),* 1250022 (15 pages), DOI: 10.1142/S1793536912500227.

10. Rahman, J., **Aslam, M.** and Ali, S. (2013), Estimation and Prediction of Inverse Lomax model viaBayesian Approach,.*Caspian Journal of Applied Sciences Research (CJASR),*2 (3), 80-93.

11. Abbas, N. and **Aslam, M.**(2013). Modeling the Factors Influencing of Items Through Mixture Models for Preference Datasets, *Communication in statistics-Theory and Methods*, 42(1), 135-144.

12. Rizwan, M. Saleem, M. and **Aslam M**., Ali, S. (2013). Comparison of Differentmethods of Parameters Estimation for Pareto Model, *Caspian Journal of Applied Sciences Research* , 2(1), 45-56.

13. Abbas, N and **Aslam, M.** (2013).Eliciting HyperparametersOf Prior Distributions for the Parameters of Paired Comparison Models. *Pakistan Journal of Statistics and Operations Research*(in press).

14. Ali, S., **Aslam, M**. and Kazmi S. M. A. (2013). A Study of the Effect of the Loss Function on Bayes Estimate, Posterior Risk and Hazard Function for Lindley Distribution, *Applied Mathematical Modeling,* 37 (8), 6068- 6078.

15. Ali, S., **Aslam, M**.and Kazmi, S.M.A. (2013),Choice of suitable informative prior for the Scale parameter of the Mixture of Laplace distribution, *Electronic Journal of Applied Statistical Analysis* (In Press)

16. Noor, F. and **Aslam, M.**, (2012) Bayesian analysis of two parameter Pareto mixture using censoring, *International Journal of Physical Sciences, 7* (44), 5878- 5891.

17. Danish, M. Y.and**Aslam, M.** (2012), Bayesian Inference for the Randomly Censored Weibull Distribution. *Journal of Statistical Computation and Simulation.*(iFirst) **DOI:** 10.1080/00949655.2012.704516.

18. Danish, M. Y. and **Aslam, M.** (2012). Bayesian estimation in the proportional hazards model of random censorship under asymmetric loss functions. *Data Science Journal*, 11(6), 72-88.

19. Altaf, S., **Aslam, M.** and Aslam, M. (2012). Paired Comparison Analysis of the van Baaren Model Using Bayesian Approach with Noninformative Prior. *Pakistan Journal of Statistics and Operation Research* 8(2), 259-270.

20. **Aslam, M.**, Hussain, D., Gilani, G. M. and Ali, S. (2012), Statistical Analysis of the TM model via Bayesian approach. Pakistan Journal of Statistics and Operation Research (PJSOR), 8 (4), 849-857.

21. **Aslam, M.**(2012)*.* "Comparison of Noninformative and Informative Priors", Southeast Asian Bulletin of Mathematics, Springer-Verlag (in press).

22. Feroze, N and **Aslam, M.** (2012). Bayesian Estimation of Two-Component Mixture of Gumble Type-II Distribution under Informative Priors, *Int. J. of Basic and Applied Sciences.*1(4), 534-556.

23. Kifayat, T., **Aslam, M.** and Ali, S. (2012). Bayesian Inference for the Parameter of the Power Distribution.*Journal of Reliability and Statistical Studies,* 5(2), 45-58.

24. Majeed, M. Y. and **Aslam, M.** (2012), Bayesian analysis of the two component mixture of inverted exponential distribution under quadratic loss function, *International Journal of Physical Science*, 7 (9), 1424-1434.

25. Feroze, N and **Aslam, M.** (2012). Bayesian Analysis of Gumbel Type II Distribution Under Doubly Censored Samples Using Different Loss Functions, *Caspian Journal of Applied Sciences Research,***1**(10), 1-10.

26. Nosheen A, Gilani, G. M. and **Aslam, M**. (2012). A Bayesian Look at the Bradley-Terry Paired Comparison Model. *International Journal of Physical and Social Sciences*, 2(7),33-44.

27. Ali, S., **Aslam, M.,**Kundu, D. and Kazmi, S.M. A. (2012). Mixture of Generalized Exponential Distribution:a versatile lifetime model in Industrial Engineering Processes. *Journal of the Chinese Institute of Industrial Engineers,***29**(4), 246–269.

28. Ali, S., **Aslam, M.**andKazmi, S.M.A**.** (2012),On the Bayesian Analysis of the Mixture of Laplace Distribution using the Complete and the Censored Sample under different Loss Functions.*Model Assisted Statistics and Applications*, 7 (3), 209-227.

29. Abbas, N and **Aslam, M.** (2012).On Accommodating the Factors Influencing the Sports Results by Splitting the Order Effect in Paired Comparison Experiments. *Pakistan Journal of Statistics and Operation Research,***8**(1), 91-100.

30. Feroze, N. and **Aslam, M.** (2012).Bayesian Analysis of Exponential Gamma Distribution under Type-II Censored Samples, *Scientific Journal of Pure and Applied Sciences,* 1(1), 1-10.

31. Feroze, N. and **Aslam, M**. (2012). A Note on Bayesian and Maximum like likelihood Estimation of Scale Parameter of Log Gamma Distribution, *International Journal of Statistics and Applications*, 2(5), 73-79.

32. Altaf, S., **Aslam, M.** and Aslam, M. (2012). Bayesian Analysis of the Amended Davidson Model for Paired Comparison Using Noninformative Priors. *Statistics:* A Journal of Theoretical and Applied Statistics,(DOI: 10.1080/02331888.2012.664773).

33. Ali, S., **Aslam, M.**Abbas, N. and Kazmi, S.M.A. (2012), Scale Parameter Estimation of the Laplace Model Using Different Asymmetric Loss Functions, *Int. J of Stat. and Probability*, 1(1), 105-127.

34. Feroze, N and **Aslam, M.** (2012). Bayesian Analysis of Gumbel Type II Distribution Under noninformative priors using Asymmetric Loss Functions, *Presented at 9th international Conference* on Statistical Sciences, Official Statistics and its Impact on Good Governance and Economy of Pakistan held on July 5-6 at NCBAE, Lahore.

35. Kazmi, S.M.A., **Aslam, M.** and Ali, S. (2012). Preference of prior for the class of life-time distribution under different loss functions. *Pakistan Journal of Statistics* 28(4), 467-484.

36. Majeed M. Y. and **Aslam, M.** (2012). Bayesian Analysis of the Two-Component Mixture of Inverted Exponential Distribution under Quadratic Loss Function, *Communication in Statistics - Theory and Methods*, (in press).

37. Feroze, N and **Aslam, M.** (2012). Bayesian Analysis of Burr Type X Distribution under Complete and Censored Samples, *International J. of Pure and Applied Sciences and technology*, 11(2), 16-28.

38. Majeed M. Y., **Aslam, M**. and Riaz, M. (2012). Mixture Cumulative Count Control Chart for Mixture Geometric Process Characteristics, *J..ofQuality and Quantity*, DOI 10.1007/s11135-011-9656-1.

39. Abbas, N.,Kazmi, S. M. A.and**Aslam, M.** (2012). Numerical Methods for Bayesian Analysis*, Journal of Statistics,***19**, 83-90.

40. Kazmi, S.M.A., **Aslam, M.** and Ali, S. (2012), On the Bayesian Estimation for two Component Mixture of Maxwell Distribution, Assuming Type I Censored Data. *International Journal of Applied Science and Technology*, 2(1), 197-218.

41. Feroze, N. and**Aslam, M.** (2012). On Bayesian Analysis of Burr Type VII Distribution under Different Censoring Schemes, *International Journal of Quality, Statistics, and Reliability,* 3, 1-5.

42. Feroze, N. and **Aslam, M.** (2012).Bayesian Analysis of Burr Type XI Distribution under Single and Mixture of priors, *Advances in Agriculture, Sciences and Engineering Research,* 2(11), 487-502.

43. Feroze, N. and **Aslam, M**. (2012). On Posterior Analysis of Mixture of two components of Gumbel Type II Distribution, *International Journal of Probability and Statistics,* 1(4), 119-132.

44. Feroz, N. and **Aslam, M.** (2012). On Posterior Analysis of inverse Rayleigh Distribution under Singly and Doubly Type II Censored Data, *Int. J. of Probability and Statistics*, 1 (5), 145-152.

45. Feroze, N. and **Aslam, M.** (2012). A Note on Bayesian Analysis of Error Function Distribution under Different Loss Functions, *International Journal of Probability and Statistics*, 1 (5), 153-159.

46. Ali, S.,**Aslam, M.** and Kazmi, S.M.A. (2011), Improved Informative Prior for the Mixture of Laplace Distribution under Different Loss Functions. *Journal of Reliability and Statistical Study,***4**(2), 57-82.

47. Kazmi, S.M.A., **Aslam, M.** and Ali, S. (2011), A Note on the Maximum Likelihood of Mixture of Maxwell Distribution using Censored Data, *The Open Statistics and Probability Journal,*3, 31-35.

48. Abbas, N. and **Aslam, M.**(2012), Are certain Pain-Killars equally Efficient? A statistical Study through the Paired ComparisonModels.*Pakistan J. of Statistics,***28**(2),189-204.

49. Altaf, S., **Aslam, M.** and Aslam, M. (2012). Bayesian Analysis of the van Baaren Model for Paired Comparison. *Hacettepe Journal of Mathematics and Statistics* (in press).

50. Altaf, S., **Aslam, M.** and Aslam, M. (2011), Bayesian Analysis of the Davidson Model for Paired Comparison with Order Effect using Noninformative Priors. *Pakistan J. of Statistics*, 27(2), 171-185.

51. Abbas, N., **Aslam, M.** and Hussain, Z. (2011). Refining the Judges' Assessment of Items in paired Preference Experiments.*HacettepeJournal of Math.and Stat*. 40(6), 907-913.

52. Kazmi, S.M.A., **Aslam, M.** And Ali, S. (2011), On the Bayesian Analysis of Maxwell Distribution under Different Loss Functions. Proceedings of *Eighth International Conference* on Recent Advances in "Statistics, Biostatistics and Econometrics" held on Feb. 8-9, 2011 at Lahore.Vol. **20**, 25-36.

53. Satti, S. and **Aslam, M.** (2011), A Bayesian Look at the Pair Comparison Model with Tie and Order Effect. *Proceedings of Eighth International Conference* on Recent Advances in "Statistics, Biostatistics and Econometrics",held on Feb. 8-9, 2011, at Lahore. **20**, 223-234.

54. **Aslam, M.** and Javed, M. (2011). Bayesian Analysis of the Rayleigh Model Assuming Single and Mixture Priors. *Proceedings Eight International Conference on Recent Advances in "Statistics, Biostatistics and Econometrics"*held on Feb. 8-9, 2011 at Lahore,**20**, 269-276.

55. Tahir M., Saleem, M. and **Aslam, M.** (2011).Comparison of Informative and Noninformative Priors for the numbers of Defect Model,*Journal of Statistical Theory and Applications,* Vol. **10**(1), 11-22.

56. Cheema, A. N. and**Aslam, M.** (2010).Regression Analysis of Wheat Model. Proceedings of Two-day International Conference on World Statistics Day "*Statistics for Society*",held on October 21-22, 2010 at Superior University, Lahore. 357-364.

57. **Aslam, M.** and Urooj, A. (2010), Bayesian Analysis of the Glenn-David Model for Paired Comparisons, *Journal of Statistical Theory and Applications,* Vol. 9(4), 595-613.

58. **Aslam, M.** and Tahir M. (2010),Bayesian and Classical Analysis of Time-to-Failure Model with Comparison of Non-Informative Priors,*PakistanJournal of Statistics*, 26(2), 407-415.

59. Ali, S., **Aslam, M.,** and Kazmi, S. M. A. (2010), Bayesian Analysis of the Laplace Model using Noninformative Priors for Complete and Censored Data under Different Loss Functions. Accepted in 3rd International Conference on Statistics organized by College of Statistical and Actuarial Sciences, University of Punjab, Lahore, held in Nov. 25-27.

60. Saleem M. and **Aslam M.** and Economou, P. (2010). On the Bayesian Analysis of the Mixture of Power Function Distribution using the Complete and the Censored Sample. *Journal of Applied Statistics,* 37 (1),25-40.

61. Abbas, N. and **Aslam, M.** (2010), Bayesian Analysis of Gamma Model for Paired Comparisons.*Pakistan Journal of Statistics*. 26(3), 479-491.

62. Abbas, N. and **Aslam, M.** (2010), Extending the Bradley-Terry Model for Paired Comparisons to Accommodate weights, *Journal of Applied Statistics*, 38 (3), 571-580.

63. **Aslam, M.,**Hussain, D. and Bhatti M. I. (2009), Bayesian Analysis of the Thurstone-Mosteller Model for Paired Comparisons Using Reference Prior, Presented in 10th Islamic Countries Conference, Egypt, Dec. 23-25.

64. Abbas, N. and **Aslam, M.** (2009), Prioritizing the Items Through Paired Comparison Models, A Bayesian Approach, *Pakistan Journal of Statistics,* 25(1), 59-69.

65. **Aslam M.** and Haq, A. (2009), On the Double Prior Selection for the Parameter of Poisson Distribution, http://*interstat.statjournals.net/year/2009/articles/0911001.pdf*

66. Saleem M. and **Aslam M.** (2009), On Bayesian Analysis of the Rayleigh Survival Time Assuming the Random Censor Time, *Pakistan Journal of Statistics*,25(2),71-82.

67. Saleem M. and **Aslam M.** (2008), Bayesian Analysis of the Two Component Mixture of the Rayleigh Dist. With the Uniform and the Jeffreys Priors, *J. of Applied Statistical Science*, 16.(4), 105-113.

68. Naveed M. N., **Aslam, M.** and Saleem, M. (2008) Bayesian Analysis of the two Components Mixture of the Exponential Distribution Assuming the Uninformative and Informative Priors, Proceedings of the 4th Int. Statistical Conference, Vol. 1, 185-192.

69. Saleem M. and **Aslam M.** (2008)**,** On Prior Selection for the Mixture of Rayleigh Distribution Using Predictive Intervals and the Censored Data, *Pakistan Journal of Statistics***.** Vol.24(1),21-35.

70. **Aslam M.** and Haq, A. (2008), On the Posterior Distribution of the Variance of Normal Distribution. *Interstat* (a journal on line)

71. **Aslam, M.** (2007), "Multidimensional Integration using the Gibbs Sampling", *Southeast Asian Bulletin of Mathematics*, Springer-Verlag, Vol. 31, 423-432.

72. **Aslam, M.** (2005). "Bayesian Comparison of the Paired Comparison Models allowing Ties" *Journal of Statistical Theory and Applications,*1Gowas Publishing, USA. 4(2), 161-172**.**

73. **Aslam, M**. (2003). "An Application of Prior Predictive Distribution to Elicit the Prior Density", *J. of Statistical Theory and Applications*, Gowas Publishing, USA, 2(1), 70-83.

74. **Aslam, M** and Zaman, M. (2003), "An Elicitation of the Prior Density for the Parameters of the Rao-Kupper Model" *Islamabad Journal of Science*, QAU, 71-78.

75. **Aslam, M.** (2003). "On the Posterior Distribution for the Parameters of the Rao-Kupper Model", *The Research Journal (Science),* BZ University, Multan, 14(2), 159-167.

76. **Aslam, M.** (2002). "Bayesian Analysis for the Paired Comparison Models allowing Ties and not allowing Ties" *Pakistan Journal of Statistics*, 18(1), 53-69.

77. **Aslam, M**. (2002). "Reference Prior for the Parameters of the Rao-Kupper Model" *Proceedings of the Pakistan Academy of Sciences*, 39, 215-224.

78. **Aslam, M.,** (2001). "Comparison of Non-informative Priors", Proceedings of the 7th Islamic Countries Conference on Statistical Sciences held under the auspice of Islamic Society of Statistical Sciences at Lahore, Jan. 2-5, 2001, 209-217.

79. **Aslam, M.** (2001). "Bayesian Analysis of the Rao-Kupper Model", Proceedings of Eighth Statistics Seminar held at University of Karachi, Karachi, July 23-25, 2001, 97-108.

80. **Aslam, M.** and Ahmad, G. (2000), "Gibbs Sampling Through the SAS Package", *Journal of Pure and Applied Sciences*, 19, 217-225.

81. **Aslam, M.,** (1989). "Employment Through Zakat Fund" *Pak. Manpower Review*, 15,# 1, 33-35.

(b) Books Published

1. Ali, S., **Aslam, M.** and Kazmi, S.M.A., (2012) Bayesian Inference for the Simple and Mixture of Laplace Distribution; An application to the Industrial Processes. Lap Lambert Academic Publishing.

2. Kazmi, S.M.A., **Aslam, M.** and. Ali, S. (2012) Posterior Analysis of the Maxwell Model: Theory, Method and Computation, Lap Lambert Academic Publishing.

3. Abbas, N. and **Aslam, M.** (2011),"Paired Comparison Modeling with Bayesian Analysis: Statistics for Social Sciences",VDMVerlagDr.Müller, Germany.

4. **Aslam M.**and Chaudhary M. A. (2008) "Revamping of Vital Events System in Pakistan" Department of Statistics, QAU, IslamabadPakistan.

(c) <u>Research Papers Submitted for Publication</u>

1. **Aslam, M** , Kazmi, S.M.A., Shah, S. H. and Ali, S.,(2013) ,Bayesian Estimation For Parameters Of The Weibull Distribution, *International Science*.

2. Noor, F. and **Aslam, M.** (2011), Bayesian Analysis of the Two Parameters Pareto Mixture using Censoring. Under Review Communication in Statistics- Simulation and Computation..

3. **Aslam, M.** and Noor, F. (2011), A Bayesian Look at the Rao-Kupper Model for Paired Comparisons. Under Review Science in China Series A: Mathematics.

4. **Aslam, M.** and Malik, T. A. (2011), Bayesian Inference of the Logit model using Informative and Noninformative Priors. Under Review World Applied Sciences.

5. Abbas, N. and **Aslam, M**. (2012), Extending the Kuk's Model for Paired Comparisons to study Ties along with partitioning the Order Effect with Bayesian Analysis. Submitted to Journal of Mathematical Psychology.

6. Altaf, S., **Aslam, M.** and Aslam, M. (2012). Bayesian Analysis of the Rao-Kupper Model for Paired Comparison with Order Effect. *Journal of Statistics* (Submitted).

VIII (a) <u>Supervision for Ph. D. Theses</u>

Supervised 3 students for the award of Ph.D. (Statistics) degrees through writing the theses on the following Topics:

1. Paired Comparison Modeling with Bayesian Analysis (2010).
2. Bayesian Analysis of Mixture Distributions (2010).
3. Bayesian Analysis of the Paired Comparisons Models (2009).
   Presently supervising 5 Ph.D. scholars.

(b) <u>Supervision for M.Phil. Dissertations</u>

Supervised 50 students for writing their M. Phil. (Statistics) dissertations on the following Topics:

1. Estimation and Prediction on Simple and Mixture of Lomax Model via Bayesian Structure (2013).
2. Bayesian Inference of the Van-Barren Model-V for Paired Comparisons using Informative Prior (2013)**.**
3. Cumulative Control Charts Based on Mixture distribution in Bayesian Paradigm.(2013).
4. Choice of Loss Function and Prior Distribution for Bayesian Inference of the Inverse Weibull model (2013).
5. Levy Distribution in Bayesian Framework (2012).
6. Exploration of the Weibull Distribution under the Bayesian Paradigm (2012).
7. A Study on the Half-Normal Distribution under Bayesian Structure (2012).
8. Comparison of the Methods for Estimation of the Pareto Model (2012).
9. Bayesian Estimation and Prediction on Simple and Mixture Inverse Lomax Model (2012).
10. Statistical Analysis of PCs Model Allowing Tie and Order Effective Via Bayesian Approach (2012)
11. Bayesian Inference of the van Barren Model-V for PCs using information Prior (2012).
12. On the Inverted Gamma Distribution under Bayesian Principles (2012).
13. Bayesian Estimation of Inverse Rayleigh Distribution under Deferent Loss Functions (2011).

14. A Bayesian Study on a Paired Comparisons Model (2011).
15. A Bayesian Analysis of Thurstone-Mosteller Model for Paired Comparison using Informative prior (2011).
16. Choice of the Prior Distribution in the Bayesian Analysis of the Weibull Model (2011).
17. On the Posterior Distribution for the Parameter of Power Distribution (2010).
18. Bayesian Analysis of the Modified Rao-Kupper Model for Paired Comparisons (2010).
19. On the Posterior Analysis of Maxwell Distribution (2010).
20. Statistical Inference for Simple and Mixture of the Laplace Dist. via Bayesian Approach (2010).
21. On Some Bayesian Approaches to Quality Control (2010).
22. Bayesian Logistic regression Analysis (2010).
23. Some Selective Socio-economic and Demographic Consequences of Aging Pop. of Pakistan (2009).
24. On the Analysis of venBarran Model-IV within Bayesian Framework (2009).
25. Some Linkages between Educational and Residential Background and Fertility (2009).
26. Economic Forecasting in Agriculture Sector of Pakistan (2008).
27. Bayesian Analysis of the Mixture of Left Truncated Rayleigh Distribution (2008).
28. Bayesian and Classical Approaches to Monitor Process Parameter (2008).
29. Bayesian Analysis of Linear Regression Model (2008).
30. Bayesian Analysis of the Thurstone-Mosteller Model for Paired Comparison (2008).
31. Bayesian Analysis of Calibration Model using noninformarive priors (2008).
32. Robust Bayesian Inference using the Mixture Priors (2008).
33. A Bayesian Look at the Paired Comparisons Model with Tie and Order Effect (2008).
34. Bayesian Analysis of Log-linear Form of the Bradley-Terry Model (2008).
35. A Bayesian Look at the Rao-Kupper Model for Paired Comparisons (2007).
36. Bayesian Ranking of the Top Cricket Teams using the Paired Comparison Model (2007).
37. Modeling and Volatility Analysis of Share Prices of Oil Companies in Pakistan (2007).
38. Comparison of Granger Causality Methods Based on MC Simulations (2007).
39. Power Comparison of Unit Root Tests (2007).
40. A Bayesian Approach for the Ana. of the Devidson Model for PCs Allowing Ties (2007).
41. Statistical Inference of van Baaren Model-V for PCs via Bayesian Paradigm (2007).
42. On the Posterior Distribution for the Parameter of the Rayleigh Distribution (2007).
43. Bayesian Analysis of the Glenn-David Model for Paired Comparisons (2006).
44. On the Posterior Distribution of the Time-to-Failure System (2006).
45. Bayesian Analysis of the Bradley-Terry Model (2006).
46. Comparison of Different Methods of Granger Causality for Export Growth Data (2006).
47. Optimal Lag Selection Criteria (2006).
48. Bayesian Analysis of Paired Comparison Model with Order Effects (2005).
49. Socio-Economic Correlates of Maternal Health Care (2005).
50. Energy-Growth Relationship: A Causal Analysis (2005).

       Presently supervising 8 M. Phil. (Statistics) students.

(c) Supervision for M. Sc. Theses

1 On the Prior Distribution for the Parameter of the Gumble Distribution (2012).

2 Classical and Bayesian Estimation of a Two-Component Mixture of Exponential and Lomax Distributions (2011).

3 Impact of Media and the arising Complexities in our Women (2010).

4 Impact of India TV Serials and Movies on Appearance, Language and Religion Practices of Teenage Girls of Rawalpindi (2010).

5 On the Prior Distributions for the Variance of Normal Distribution (2007).

6 Regression Analysis of Wheat Model (2007)

7 Some Shewhart Based Approaches to Monitor a Process (2006).

(d) Experience of Research Projects

- Worked as Principal Investigator of the project "Revamping of Vital Events System in Pakistan" funded (Rs.3.5 million) by Higher Education Commission, Govt. of Pakistan (2006-2008).

- Appointed by the Higher Education Commission as a "Focal Person" to arrange the review of research projects submitted in the field of Statistics under the National Research Program for Universisties of Pakistan (2006-todate).

- Worked as a member of the team engaged in a project on "Socio-economic Impact of Use of Mobile" offered by the Pakistan Telecommunication Authority (2007).

- Appointed by the Pakistan Science Foundation as a Head of the Special Committee for review of Journals Published by the Scientific Societies (2006).

- Completed a Research Project: "Bayesian Analysis of the Paired Comparison Model with Order Effect" Funded by the Quaid-i-AzamUniversity Research Fund (2004).

- Member on the committee constituted by the Advisor to the Prime Minister of Pakistan to review the Pakistan Integrated Household Survey and Core Welfare Indicator Questionnaire (2003).

- Ph. D. scholar at University of Wales, Aberystwyth, UK and wrote a thesis entitled: "Bayesian Analysis for Paired Comparison Data" (1992 – 1996).

- Working paper on "Performance of M. Sc. Students at Quaid-i-Azam University through Comparing Regression Coefficients" submitted in the Department of Mathematics and Statistics, Q.A.U. Islamabad, (1991).

- Member of the team engaged in the project on "Evaluation of Zakat System in Pakistan" (1988).

- Member of the team engaged in the study on "Management of Zakat and Usher Fund in Pakistan" (1986).

IX Scholarships/Awards

- Central Overseas Training Scholarship was awarded for Ph. D. in UK, (1992-1995).
- Selected for Cultural scholarship for higher studies in Russia (1986).
- Selected for Cultural scholarship for higher studies in Turkey (1983).
- First division holder through out the Academic career (from matriculation to M. Sc.).
- Scholarship was awarded in B.Sc. (1975).
- First position in the Humanities Group (Intermediate) at Govt. College, Sahiwal (1972).
- Scholarship was awarded in Matriculation (1970).

X Services to the Profession:

- Examiner and paper-setter: University of the Punjab, Lahore; BahauddinZakariya University, Multan; Balochistan University, Quetta; AllamaIqbal Open University, Islamabad, Islamia University, Bahawalpur and Azad Jammu and Kashmir University, Muzafarabad.

  * Member of the Board of Studies on Statistics, University of the Punjab, Lahore (2012-15).
  * Member of the Board of Studies on Statistics, Lahore College for Women, Uni. (2012-15).
    Member of the Board of Studies on Statistics, Hazara University, Mansehra (2012-15).

* Member of the Board of Studies on Statistics, AJK University, Muzaffarabad (2010-13).
* Member of the Board of Studies on Statistics, Int. Islamic University, Islamabad, (2010-13).
* Convener of the committee for "Plagiarism Matters" of the Quaid-i-Azam University, (2010).
* Member of the Board of Studies on Statistics, G C University, Faisalabad, (2009-12).
* Member of the Board of Studies on Statistics, Peshawar University, Peshawar, (2009-12).
* Member of the Board of Studies on Statistics, AIOU Islamabad Pakistan (2009-12).
* Member of the Board of Studies on Statistics, Gomal University, D I Khan, (2008-11).
* Member of the Board of Studies on Statistics and Econometrics, PIDE, Islamabad (2008-11).
* Nominated by the Advisor to Prime Minister for Finance, Revenue, Economic Affairs and Statistics as Member of the Advisory Board of Training Wing, Federal Bureau of Statistics, Government of Pakistan, Islamabad (2006).
* Member of the Board of Studies on Statistics, University of Balochistan, Quetta, (2006-09).
* Member of the Board of Studies on Statistics, G C University, Lahore, (2006-09).
* Member of the International Editorial Board of "Pakistan Journal of Statistics", (2005-todate).
* Enlist on the panel of consultants for "Pakistan Journal on Social Security" published by the "Employees Old-Age Benefits Institution", Ministry of Labour, Manpower and Overseas Pakistanis, Government of Pakistan, Islamabad, (2002).
* Member of the Faculty Board of Natural Sciences, Quaid-i-Azam University, Islamabad, (2002-todate)
* Member of the Executive Council of the Academic Staff Association of Quaid-i-Azam University, Islamabad, Pakistan (October, 2001 to September, 2002).
* Member of the Academic Council of Quaid-i-Azam University, Islamabad, (2002 - todate).
* Chairman, Board of Studies on Statistics, Quaid-i-Azam University, Islamabad, (2002-2008).
* Member of the Board of Studies for Department of Mathematics and Statistics, Quaid-i-Azam University Islamabad, (1998-2001).
* Joint Secretary of the Academic Staff Association of the Quaid-i-Azam University Islamabad, (October, 1999 to September, 2000).
* Member of the Board of Faculty for Natural Sciences, Quaid-i-Azam University, Islamabad, Pakistan (1998-2001).
* Convener for revising the syllabus of M. Sc. (Statistics), Quaid-i-Azam University Islamabad, (1998).
* Member of the admission committees for M. Phil. (Mathematics) and M. Sc. (Statistics) in Quaid-i-AzamUniversity, Islamabad, (1996-2000).
* Member of the committee for preparing the courses of M. Phil. (Statistics) in Allama Iqbal Open University, Islamabad, Pakistan (1998).
* Incharge, Statistics Discipline in Department of Mathematics and Statistics, QAU, Islamabad, (1997).
* President of the Pakistan Students Society, University of Wales, Aberyestwyth , UK (1994).
* Coordinator in preparing the syllabus of M. Sc. (Statistics), QAU, Islamabad, (1990).

XI Seminars/Conferences Attended/Organized/Chaired

- Member of the organizing committee for the Seminar on "Statistical Techniques for Under-developed Areas" held at University of Balochistan, Quetta, June 4-6, 1983.

- Member of the organizing committee for the Seminar on "Fiscal Policy and Development Planning in a Islamic State" held under the auspice of the International Institute of Islamic Economics, Islamabad, June 19-22, 1986.

- Member of the organizing committee for the International Conference on "Scientific Miracles of Qura'an and Sunah" held under the auspice of Int. Islamic University, Islamabad, October 6-9, 1987.

- Assistant Secretary of the organizing committee for National Seminar on "Statistics for Development" held at Allama Iqbal Open University, Islamabad, February 17-18, 1990.

- Secretary of the organizing committee for International Conference on Probability and Statistics held at Quaid-i-Azam University, Islamabad, December 15-17, 1991.

- Attended 28th Gregynog Statistical Conference held at the University of Wales, (Aberystwyth), U. K., April 24-26, 1992.

- Attended 29th Gregynog Statistical Conference held at the University of Wales, (Aberystwyth), U. K., April 16-18, 1993.

- Attended Young Statistician Conference held at the Lancaster University, (Lancaster) U. K., March 29-31, 1994.

- Attended 30th Gregynog Statistical Conference held at the University of Wales, (Aberystwyth), U. K., April 17-19, 1994.

- Attended 31st Gregynog Statistical Conference held at the University of Wales, (Aberystwyth), U. K., March 21-23, 1995.

- Attended the "Eleventh All Pakistan Statistical Conference", held at Institute of Statistics, University of the Punjab, Lahore, Pakistan, May 3-5, 1997.

- Attended the Workshop on 'Establishment of Gender Disaggregated Statistical Data Base" held under Federal Bureau of Statistics, Islamabad, Pakistan December 22, 1997.

- Attended the meeting of "National Curriculum Revision Committee in Statistics" at University Grants Commission, Regional Centre, Lahore Pakistan, February 16-18, 1999.

- Attended the "Seventh Islamic Countries Conference on Statistical Sciences", held at the University of Lahore, Lahore, Pakistan, January 2-5, 2001.

- Presented a paper in the "Eighth Statistics Seminar" held at Karachi University, Karachi, Pakistan, July 23-25, 2001.

- Attended the 2-Day workshop on "Computational Mathematics and Related Topics" Islamabad, sponsored by COMSATS, Islamabad, July 29-30, 2002.

- Resource person for Balochistan Colleges' Teachers Training Program organized by Department of Statistics, University of Balochistan, Quetta, May 29-31, 2003.

- Resource person for the Workshop on "Use of Statistics in Population Analysis" organized by Population Council, Islamabad, held on July 7-15, 2003.

- Attended the "Eighth Islamic Countries Conference on Statistical Sciences", held under the auspice of the Islamic Society of Statistical Sciences at National University of Computer and Emerging Sciences-FAST Lahore, December 19-22, 2005.

- Member of the organizing committee for the "First International Conference on Statistics and Operations Research" held under the auspice of the Institute of Statistics, University of the Punjab, Lahore, April 3-5, 2006.
- Member of the organizing committee for the "International Conference on Statistical Data Produced and Application of Statistics" held under the auspice of the College of Statistical and Actuarial Sciences, University of the Punjab, Lahore Pakistan, September 3-5, 2007.
- Chaired a Session in "International Conference on Statistical Data Produced and Application of Statistics" held under the auspice of the College of Statistical and Actuarial Sciences, University of the Punjab, Lahore, Pakistan, September 3-5, 2007.
- Attended the "4th International Statistical Conference", held under the auspice of "University of Gujrat" andthe Islamic Countries Society of Statistical Sciences, Gujrat, Pakistan, May 2008.
- Presented a paper in the "10thIslamic Countries Conference on Statistical Sciences", held under the auspice of the Islamic Countries Society of Statistical Sciences at American University, Cairo, Egypt, December 21-24, 2009.
- Chaired a Session in "3rdInternational Statistical Conference"held under the auspice of the College of Statistical and Actuarial Sciences, University of the Punjab, Lahore, Pakistan, Dec. 25-27, 2010.
- Presented a paper in Eighth International Conference on Recent Advances in "Statistics, Biostatistics and Econometrics" held on Feb. 8-9, 2011 at Lahore.
- Attended SDPI 15th Sustainable Conference, Islamabad, Sustainable Development in South Asia: Shaping the Future   Dec. 11-13, 2012.