Ishfaq Ahmad

Associate Professor
Department of Maths and Stats
International Islamic University, Islamabad, Pakistan
Email: ishfaq.ahmad@iiu.edu.pk;
Google Scholar Page:
https://scholar.google.com.pk/citations?hl=en&user=vrmMdb8AAAAJ
University Web Page:
http://www.iiu.edu.pk/index.php?page_id=2086
HEC Approved Supervisor
Cell #: 0092-345-4612-656
Date of Birth: March 26,1981

EDUCATION

Year	Degree	University
2007-2010	PhD Statistics	Graduate University of Chinese Academy of Sciences, Beijing, China (Ranked at 96th position in CWUR World University Ranking) (cwur.org/2019-2020.php); (Ranked at 1st Position in Global High quality research by institution for 2018 as reported by nature index): https://www.natureindex.com/annual-tables/2019/institution/all/all
2003-2005	M.Phil Statistics	Quaid-e-Azam University (QAU). Islamabad, Pakistan
2001-2003	M.Sc Statistics	Quaid-e-Azam University (QAU). Islamabad, Pakistan
1997-1999	B.Sc. Stat, Math, Physics	Bahudin Zakria University (BZU) Multan, Pakistan.
1995-1997	F.Sc.	Government College Sahiwal, Pakistan
1993-1995	SSC Science	Government High School Basir Pur, Okara, Pakistan

THESES

- **2010-PhD** "Semi-Parametric Modeling and its Applications"
- **2005-MS** "Role of Regression in Determining Causation in Non- Experimental Data."

TEACHING AND RESEARCH EXPERIENCE

- 01/2020 to date : Associate Professor,Department of Mathematics and Statistics, IIU, Islamabad, Pakistan
- 11/2017 to 01/2020: Assistant Professor, Department of Mathematics, King Khalid University, KSA
- 08/2017 to 11/2017: Associate Professor, Department of Mathematics and Statistics, IIU, Islamabad, Pakistan
- 07/2010 to 08/2017: Assistant Professor, Department of Mathematics and Statistics, IIU, Islamabad, Pakistan
- 07/2007 to 06/2010 : Ph.D scholar , Chinese Academy of Sciences
- 09/2009 to 12/2009: Research Associate,Shanghai University of Finance and Economics.
- 04/2009 to 06/2009: Research Associate, City University of Hong Kong.
- 07/2006 to 06/2007, Lecturer , Federal Government Post Graduate College, H-8 Sector Islamabad, Pakistan
- 04/2005 to 07/2006, Lecturer, Government Degree College Renala Khurd , Okara, Pakistan

RESEARCH INTERESTS

- Modeling of Extreme Events in Different Fields.
- Bayesian Estimation Methods
- Causal Inference and Outliers Detection
- Semi-Parametricand Non-Parametric Modeling
- Chemometrics
- Quality Control
- Functional Statistics/ Big Data Analysis
- Survey Sampling

PUBLICATIONS

Summary

Total Impact Factor: More than 35

H. Index=8;I-10-index: 5

Journal: 42	SCI- Indexed: 30	International: 31	National: 12

Some selected Papers

- Muhammad Fawad, **Ishfaq Ahmad**, Falaq Ali Nadeem, Ting Yan, Aamar Abbas, Estimation of wind speed using regional frequency analysis based on linear-moments. International. Journal of Climatology: 38 (12): 4431-4444, 2018. (Impact Factor=**3.609**).
- Khan MS, Hussain Z, **Ahmad I.** A Comparison of Quadratic Regression and Artificial Neural Networks forthe Estimation of Quantiles At Ungauged Sites In Regional Frequency Analysis. Applied Ecology and Environmental Research. 2019 Jan 1;17(3):6937-59.(Impact Factor=**0.69**).
- Almanjahie IM, **Ahmad I**, Elmezouar ZC, Laksaci A. Soil quality analysis using modern statistics and NIR spectroscopy procedure. Polish Journal of Environmental Studies. 2019 Jan 1;28(5).(Impact Factor=**1.21**)
- Ali Nasir, **Ishfaq Ahmad**, Muhammad Hanif, and Usman Shahzad. "Robust-regression-type estimators for improving mean estimation of sensitive variables by using auxiliary information." Communications in Statistics-Theory and Methods (2019): 1-14.(Impact Factor=**0.424**).
- A.Saghir, S. Chakraborti, **Ishfaq Ahmad**; On the Performance of Phase-I Bivariate Dispersion Charts to Non-Normality; Quality and Reliability Engineering International; Online ISSN: 1099-1638; First published: 33(3),637-656 ,2017(Impact Factor=**1.457**).
- Xu Liu, **Ahmad Ishfaq.** Distribution Estimation Using Smoothed Auxiliary Information, Acta Mathematica Applicate Sinica. 27(1), 167-176:2011. (Impact Factor=**0.45**).
- Mubarik, S., Wang, F., Fawad, M., Wang, Y., **Ahmad, I**., & Yu, C. (2020). trends and projections in Breast cancer Mortality among four Asian countries (1990–2017): Evidence from five Stochastic Mortality Models. Scientific reports, 10(1), 1-12.(Impact Factor=**4.01**).

2020

1. Mubarik, S., Wang, F., Fawad, M., Wang, Y., **Ahmad, I**., & Yu, C. (2020). trends and projections in Breast cancer Mortality among four Asian countries (1990–2017): Evidence from five Stochastic Mortality Models. Scientific reports, 10(1), 1-12.

2019

2. **Ishfaq Ahmad**, Ibrahim Almanjahie, Muhammad Asgher, Haqul Ehtshaam: Probability Modeling and Estimation of Risk Measures for Fire Loss Severity in Pakistan: An Application of Extreme Value Theory. Economic Computation and Economic Cybernetics Studies and Research: 2019; 53(4): pp; 275-282.
3. **Ahmad I**, Waqas M, Almanjahie IM, Saghir A, Haq EU. Regional Flood Frequency Analysis using Linear Moments and Partial Linear Moments: A Case Study. Applied Ecology and Environmental Research. 2019 Jan 1;17(2):3819-36.
4. Zulfiqar Ali; Ijaz Hussain; Muhammad Faisal, Alla Mohamd Shoukry; Showkat Gani &**Ishfaq Ahmad**. A framework to identify homogeneous drought characterization regions. Theoretical and Applied Climatology. 2019 pp:1-12.
5. **Ahmad I**, Almanjahie I M, Hameedullah–Chikr-Elmezouar Z, Laksaci A. Artificial Neural Network Modeling For Annual Peak Flows: A Case Study. Applied Ecology and Environmental Research. 2019 Jan 1;17(3):6917-35.
6. **Ishfaq Ahmad**, Didar Ali Khan, Aamar Saghir, "At-Site Rainfall Frequency Analysis of Partial duration series and Annual Maximum series using L-moments in Rawalpindi city of Pakistan" Applied Ecology and Environmental Research 2019,17(2).
7. Khan MS, Hussain Z, **Ahmad I.**A Comparison of Quadratic Regression and Artificial Neural Networks For The Estimation of Quantiles At Ungauged Sites In Regional Frequency Analysis. Applied Ecology and Environmental Research. 2019 Jan 1;17(3):6937-59.

8. Ali Z, Hussain I, Faisal M, Almanjahie IM, **Ahmad I,** Khan DM, Grzegorczyk M, Qamar S. A Probabilistic Weighted Joint Aggregative Drought Index (PWJADI) criterion for drought monitoring systems. Tellus A: Dynamic Meteorology and Oceanography. 2019 Mar 16:1-21.

9. Ali N**, Ahmad I**, Hanif M, Shahzad U. Robust-regression-type estimators for improving mean estimation of sensitive variables by using auxiliary information. Communications in Statistics-Theory and Methods. 2019 Jul 31:1-4.

10. Hasan D, Mahmood I, **Ahmad I**, Aziz F, Ahmad I. Development of an HPLC Method for Formic Acid Analysis through Peak Exclusion Approach. Sains Malaysiana. 2019 May 1;48(5):1011-8.

11. Nazir HM, Hussain I, **Ahmad I**, Faisal M, Almanjahie IM. An improved framework to predict river flow time series data. PeerJ. 2019 Jul 1; 7:7183.

12. Almanjahie IM, **Ahmad I**, Elmezouar ZC, Laksaci A. Soil quality analysis using modern statistics and NIR spectroscopy procedure. Polish Journal of Environmental Studies. 2019 Jan 1;28(5).

13. Zulfiqar Ali, Ijaz Hussain, Muhammad Faisal, Marco Andreas, Ibrahim Almanjahie, Amna Nazir, **Ishfaq Ahmad** Characterization of regional hydrological drought using improved precipitation records under multi-auxiliary Information. Theoretical and Applied Climatology https://doi.org/10.1007/s00704-019-03070

14. **Ishfaq Ahmad**, Touqeer Ahmad, Ibrahim Almanjahie: Modelling Of Extreme Rainfall In Punjab, Pakistan Using Bayesian And Frequentist Approach. Applied Ecology and Environmental Research 2019, 17(06), 13729-13748.

15. Ehtshaam ul Haq, **Ishfaq Ahmad**, Abid Ali, Zahid Ali, Ibrahim Almanjahie, Performance evaluation of novel selection Processes through hybridization of k- means clustering and genetic algorithm: Applied Ecology And Environmental Research 17(6):14159-14177:2019

16. Almanjahie, M**. I. Ahmad**, I., Chikr Elmezouar, Z. Laksaci, A Modern Statistical Analysis of Forage Quality Assessment With NIR Spectroscopy. Applied Ecology and Environmental Research 2019, 17(06). 14333-14346.

17. Ehtshaam UL Haq, **Ishfaq Ahmad**, Abid Hussain and Ibrahim Almanjahie. A novel selection approach for genetic algorithms for global optimization of multimodal continuous functions. Computational Intelligence and NeuroscienceVolume 2019, Issue Pages 1-14 Online.

18. Ehtshaam UL Haq, **Ishfaq Ahmad**, Abid Hussain , Development a New Crossover Scheme for Traveling Salesman Problem by aid of Genetic Algorithm: I.J. Intelligent Systems and Applications, 2019, 12, 46-52

2018

19. Muhammad Fawad, **Ishfaq Ahmad**, Falaq Ali Nadeem, Ting Yan, Aamar Abbas, Estimation of wind speed using regional frequency analysis based on linear-moments. International. Journal of Climatology: 38 (12): 4431-4444, 2018. (Impact Factor=3.609)

20. Akbar M, Noor F, **Ahmad I**, Sattar A. Impact of energy consumption and CO2 emissions on food production in Pakistan: an econometric analysis. Pakistan Journal of Agricultural Sciences. 2018 May 1;55(2).

21. Ali, Zulfiqar, Ijaz Hussain, Muhammad Faisal, Ibrahim M. Almanjahie, Muhammad Ismail, Maqsood Ahmad, and **Ishfaq Ahmad**. "A New Weighting Scheme in Weighted Markov Model for Predicting the Probability of Drought Episodes." Advances in Meteorology 2018 (2018).

22. Ibrahim Almanjahie, **Ishfaq Ahmad**, Zvawve Ch., Ali Laksaci, Soil Quality Analysis Using Modern Statistics and NIR Spectroscopy Procedure, Accepted in Polish Journal of Environmental Studies.2018.

23. Khursheed J. Ansari, **Ishfaq Ahmad**, M. Mursaleen and Iqtadar Hussain," On Some Statistical Approximation by (p, q)-Bleimann, Butzer and Hahn Operators. *Symmetry* **2018**, *10*(12), 731; https://doi.org/10.3390/sym10120731

24. Hafiza Mamona Nazir, Ijaz Hussain, Muhammad Faisal, Alla Mohamd Shoukry, Showkat Hussain Gani, and **Ishfaq Ahmad**. Development of Multi-Decomposition Hybrid Model for Hydrological Time Series Analysis. Complexity 2018.

2017

25. A.Saghir, S. Chakraborti, **Ishfaq Ahmad**; On the Performance of Phase-I Bivariate Dispersion Charts to Non-Normality; Quality and Reliability Engineering International; Online ISSN: 1099-1638; First published: 33(3),637-656 ,2017.

26. **Ishfaq Ahmad**, Muhammad Yasin, Muhammad Fawad, Aamar Saghir: "Regional Frequency Analysis of Low Flows in Pakistan" Pakistan Journal of Science. 69(3).75-84,2017

27. **Ishfaq Ahmad**, Aamar Abbas, Muhammad Fawad; "A study on Regional Frequency Analysis of Annual Total Rainfall in Pakistan Using method of Linear moments" NUST Journal of Engineering and Sciences. Accepted (2017)

2016

28. **Ishfaq Ahmad**, Muhammad Fawad, Aamir Saghir. "Probability Modeling of Low Flows at Different sites of Indus Basin in Pakistan using L-Moments and TL-Moments". Pakistan Journal of Science.,(HEC approved Journal) 68 (1) 86-92, 2016.

29. **Ishfaq Ahmad,** Aamar Abbas, Aamir Saghir, Muhammad Fawad. "Finding Probability Distributions for Annual Daily Maximum Rainfall in Pakistan Using Method of Linear Moments and their Variants". Polish Journal of Environmental Studies 25(3), 925-937, 2016.

30. **Ishfaq Ahmad,** Muhammad Fawad, Muhammad Akbar, Aamar Abbas "Regional Frequency Analysis of Annual Peak flows using Linear combination of order Statistics in Pakistan". Polish Journal of Environmental Studies". 25(6),2255-2264, 2016.

31. Tehmina Amjad, **Ishfaq Ahmad**, Muhammad Akram Shaikh, Nabila Naz. "Variation in Citation Based Fractional Counting of Authorship. Journal of Engineering and Applied Sciences; Vol. 35, No 2 (2016).

2015

32. **Ishfaq Ahmad**, Muhammad Fawad Khan, Iram Mahmood "At- Site Flood Frequency Analysis of Annual Maximum Stream Flows in Pakistan Using Robust Estimation Methods" Polish Journal of Environmental Studies; 24(6),2345-2353, ,2015.

33. Nasir Ali, **Ishfaq Ahmad.** "Trend Analysis of Precipitation Data in Pakistan" Science International.,(HEC approved Journal) 27 (1), 803-808, 2015.

34. **Ishfaq Ahmad**, Shafeeq-ul- Rahman. "Parameters estimation of Nakagami probability distribution using Method of L.Moments" NUST Journal of Engineering and Sciences,(HEC approved Journal) 8(1),10-13, 2015 .

35. Ishfaq Ahmad, Aamar Abbas, Muhammad Aslam, Iftekhar Ahmed: "Total Annual Rainfall Frequency Analysis In Pakistan Using Methods Of L-Moments And Tl-Moment". Science International 27(3), 2331-2337, 2015.

2014

36. Muhammad Aslam, Syed Mohsin Ali Kazmi, **Ishfaq Ahmad**: "Bayesian Estimation for Parameters of the Weibull Distribution". Science International, (HEC approved Journal) 26(5), 1915-1920, 2014.

37. **Ishfaq Ahmad**, Imran Riaz Malik, Irshad Ahmad Arshad, Iram Mahmood. "Probability Analysis of Monthly Rainfall on Seasonal Monsoon in Pakistan". Int. Journal of Climatology: 34 (3): 827–834, 2014.

2013

38. **Ishfaq Ahmad**, Syed Farooq Shah, and Iram Mahmood. "Modeling Monsoon Rainfall In Pakistan Using Kappa Distribution Based On L-Moments Estimation". Science International, 25(2), 333-336, 2013.

39. Ehtshaamul Haq, Mahmood A Khan, **Ishfaq Ahmad**: "Comparative Study of Test Sizes of Different Estimators of Box's Correction in the Uni-Variate Repeated Measures Designs". Science International, 25(4), 873-876, 2013.

40. Irshad Ahmad Arshad, Syed Abdul Qader Shah,**Ishfaq Ahmad**, and Najma: "Causality Analysis between CPI Inflation and WPI inflation: The Pakistan Experience". Science International, 24(2), 873-876, 2013.

2011

41. Xu Liu, **Ahmad Ishfaq.** Distribution Estimation Using Smoothed Auxiliary Information, Acta Mathematica Applicate Sinica. 27(1), 167-176:2011. (Impact Factor=**0.45**).

2010

42. **Ahmad Ishfaq**. Wage Differentials across Different Professional Groups between Chinese Immigrants and Locals in Hong Kong Labor Market using Semi parametric Methodology. Applications of Statistics and Management. 20(10), 21-31.2010.

Submitted Papers:

43. **Ahmad I**, Almanjahie I M.Chikr-Elmezouar Z, Ali Laksaci Modeling of Water Consumption Using Classical and Modern Statistical Method in Saudi Arabia. Submitted in Arabian Journal of Geosciences.
44. Usman Shahzad, Ishfaq Ahmad, Evrim Oral, Muhammad Hanif, Ibrahim Almanjahie, Multifold utilization of a linearly transformed auxiliaryvariable for mean estimation under median ranked set sampling. Submitted in Communications in Statistics-Theory and Methods
45. Usman Shahzad, Ishfaq Ahmad, Ibrahim Al Omari, Muhammad Hanif, Ibrahim Almanjahie, Threefold utilization of supplementary information for mean estimation under median ranked set sampling. Submitted in Communications in Statistics-Theory and Methods.
46. Usman Shahzad, Ishfaq Ahmad, Ibrahim Al Omari, Muhammad Hanif, Ibrahim Almanjahie, A new class of robust Regression type estimators for mean estimation under simple random sampling and two stage sampling. Submitted in Communications in Statistics-Theory and Methods

BOOK CHAPTER

1. **Ahmad,I**., Khan, A. Z., Baig, M. B., & Almanjahie, I. M. (2020). Flood Frequency Analysis Using Bayesian Paradigm: A Case Study from Pakistan. In Decision Support Methods for Assessing Flood Risk and Vulnerability (Chapter 5-pp. 84-103). IGI Global.

MS THESES SUPERVISION

Summary

Supervised	27
Supervising	01 (MS) and 03(PhD)

Details
MS Statistics

2018

1. Yumna Sabir : Bayesian estimation for censored data
2. Ghulam Raza Khan: Extreme value risk analysis for Gold prices in Pakistan
3. Nafeesa Javed: Extreme value Analysis for Influenza patients in Pakistan.

2017
4. Zeeshan Ali. Extreme risk and Value at Risk in Pakistan Stock Market.
5. Azmat Ali. "Finding Best Probability Distribution for Annual Maximum Rainfall Using Different Estimation Methods".
6. Hassan Allah Ditta. "Use of Extreme Value Theory for Hydrological Data in Pakistan."
7. Mazhar Hussain. Distribution of Expenditures in Pakistan using different Estimation Methods
8. Touqeer Ali "Flood frequency Analysis using Bayesian Paradigm"
9. Kareem Ullah: " Ecological low flow frequency analysis on Indus river Pakistan "
10. Fayaz Usman "Design flood estimation for river swat Pakistan"
11. Taseer Khan " Temperature trend Analysis in urban cities of Pakistan"
12. Alam Zeb Khan" Bayesian Flood frequency analysis in Pakistan"
13. Adil Ali "At site and regional frequency analysis of annual maximum rainfall in gilgat Baltistan Pakistan"
14. Hammed u Allah. "Modeling of Hydrological Data using Artificial Neural Network in Pakistan
15. Umer Pervaiz. " Non Parametric Density Estimation of Annual Maximum Series in Pakistan"

2016

16. Sayyad Anwar:" Modeling of minimum stream flow in Pakistan using four parameters Kappa distribution based linear order statistics.
17. Muhammad Waqas. " Regional Flood Frequency Analysis in Pakistan using Partial L. Moments "
18. DidarAli Khan. " Probability Analysis of Partial Duration Series of Rainfall in Pakistan"
19. Asgher Ali. " Modeling Of Fire Losses In Pakistan Using Pareto Distribution"

2015
20. Muhammad Fawad "At-Site Analysis of Annual Maximum Flows in Pakistan Using Robust Estimation Methods"
21. Nasir Ali. "Trend Analysis of Precipitation and Temperature data in Pakistan"
22. Muhammad Shafeeq ul Rehman " L-Moments and TL-Moments of Some Individual and Mixture Distributions"
23. Yasin Bashir. "Regional Analysis of Low Flow For Indus Basin In Pakistan Using L-Moments"
24. Muhammad Alam. " Income Distribution in Pakistan Using Log Normal Distribution"

2014
25. Aamar Abbas. "Regional Analysis of Total Annual Rainfall In Pakistan using L-Moments"

Supervising

MS Statistics
About 7 students are currently under supervision

PhD Statistics

1. **Nasir Ali:** Robust-regression-type estimators for improving mean estimation of sensitive variables by using Auxiliary information
2. **Ehtshaam ul Haq:** Performance evaluation of novel selection Processes through hybridization of k- means clustering and genetic algorithm
3. **Shafeeq ur Rahman :**A Comparison Of Quadratic Regression and Artificial Neural Networks for the Estimation of Quantiles at Ungauged Sites in Regional Frequency Analysis

RESEARCH PROJECTS
Summary
Total: 15

Role		International: 10	National: 04
Principal Investigator: 04 Co-PI: 11 (10 International and 01 National)		King Khalid University:10 Big Projects : 02 Small Projects:03 General Project:05	HEC NRPU: 03 PI-02 Co-PI-01 HEC Start Up Research Grant Project (SRGP) :01

Details
Principal Investigator

- **Higher Education Commission Pakistan** (NO: 20-3954R&D/HEC/305) Under NRPU Scheme. (2015)

    Title: Robust estimation in the presence of Extreme Observations.

    Project Funding: 0.9 Million PKR

- **HEC Start Up Research Grant** Project Under Interim Placement of Fresh PhDs(IPFP)Project No: (PM-IPFP/HRD/HEC/2011/2254)(2011-2012)[Completed]
    Title: Optimized Estimation Methodology for parametric Component in Partial Linear Models

    Project Funding: 0.5 Million PKR

- **Higher Education Commission Pakistan** (5790/Federal/NRPU/R&D/HEC/2016)

  Title: Artificial Neural Networks Modeling for Hydrological Data in Pakistan.

  Project Funding: 0.8 Million PKR

Co-Principal Investigator

- **Higher Education Commission Pakistan**(5769/Federal/NRPU/R&D/HEC/2016)

  Title: Bayesian Analysis of Money Demand Function of Pakistan Economy

  Project Funding: 0.92 Million PKR

- **King Khalid University, Saudi Arabia**

  Statistical and Mathematical modeling of extreme events and Big Data (RGP1/50/39; RGP1/102/40; RGP1/103/40)

  Projects Funding: 18 Million PKR

- **King Khalid University, Saudi Arabia**

  Statistical Analysis of extreme events (GRP/133/40; GRP/78/41; GRP/118/41; GRP/226/39)

  Project Funding: 4.00 Million PKR

- **King Khalid University, Saudi Arabia**

  Statistical modeling of extreme events using robust estimation methods (RGP2/67/41; RGP2/68/41)

  Project Funding: 18 Million PKR

TEACHING

Spring (S), summer (Su), Fall (F)

Undergraduate Level

- Sampling Techniques[3 Credits] F10, S11,F11,S12,
- Probability and Probability Distributions [3 Credits] F10,S11, F11,S12,S13, S14,S15,S16,Su11,Su12,Su13, Su14,Su15
- Statistical Inference[3 Credits] F10,S11,F11,S12,F12,S13,F13,S14,F14,S15,F15,S16,F16
- Time Series Analysis[3 Credits] F10,S11,F11,S12
- Statistical Methods[3 Credits]F12,F13,F14,F15,F16
- Non-Parametric Statistics[3 Credits] F12,S13,F13,S14,F14,S15,F15,S16
- Probability and Statistics (General course for Environmental Sciences students) [3 Credits] Su13
- Probability and Statistics for Engineers [3 Credits] S11
- Probability and Statistics (General course for Mathematics students) [3Credits] S12,S16
- Principles of Statistics and Probability for Engineers [2 Credits]F17,S18,F18,S19
- Elementary Statistics[3 Credits] S20

MS/PhD Level

- Statistical Inference [3 Credit] F12, F13,F14,F15,F16
- Sampling and Sampling Distributions [3 Credits] S13,S14,S15,S16
- Advanced topics in Statistical Inference[3 Credits] F16
- Recent Developments in Statistics [3 Credits]: S20
- Statistical Theory of Extreme Events[3 Credits] : S20

Professional Memberships

- International Statistical Institute (ISI), 2020: Membership No. 19795

OTHER DEPARTMENTAL ACTIVITIES
- Coordinator Statistics Programme (Ph.D/MS/M.Sc/BS) in the department
- Member of Seminar Committee
- Member of Computer Lab Maintenance Committee
- Member of students Financial Assistance Committee.
- Convener of Library Committee
- Member of HEC Funds utilization Committee
- Member Graduate Research Committee
- Member Admissions and Examinations Committee

REVIEWER OF JOURNALS
- Polish journal of Environmental Studies
- Meteorological Applications
- Journal of Hospitality and Management
- Journal of Water and Climate Change
- Water Science and Technology: Water Supply
- Stochastic Environmental Research and Risk Assessment
- Science International, Lahore
- Environmental Processes

COPUTITIONAL SKILLS
Minitab, SPSS, R, Mathematica, Maple, MS office.

COURSES DEVELOPED
- Statistics for Clinical Trials (ST-705) :[3 credit hours : PhD level]
- Classification and Regression Trees (ST-708) :[3 credit hours : PhD level]
- Statistical Theory For Extreme Events (ST-711): [3 credit hours : PhD level]
- Non-parametric and Semi-Parametric (ST-712) :[3 credit hours : PhD level]
- Advanced Topics In Statistical Inference (ST-702) :[3 credit hours : PhD level]
- Statistical Inference [3 credit hours: MS level]
- Sampling and Sampling distributions[3 credit hours]

HONORS & AWARDS
- 2018/19: Received 09 research projects from King Khalid University, KSA.
- 2017: Received NRPU project funded by HEC for a period of two years
- 2015: Received NRPU project funded by HEC for a period of two years
- 2011: Received IPFP project funded by HEC for a period of Nine months
- 2007: Received PhD scholarship funded by HEC for a period of three years.
- HEC approved PhD supervisor

CONFERENCES & WORKSOPS
- Paper presented at 1st international conference on Mathematics and Applications at King Khalid University, Saudi Arabia February 2018
- Organized 3rd National conference on mathematical sciences 27-28th April 2017.
- Participated as speaker in 2ND national conference on mathematical sciences 01-2nd Nov 2013 at IIUI.
- Organized one day seminar on the role of official statistics by State Bank of Pakistan, 08 April 2016.

TRAININGS/CERTIFICATIONS

- 2007: Basic Chinese Language "30-06-2007 to 31-08-2007", Tianjin Normal University, Tianjin, China

VISITS TO FORIEGN UNIVERSITIES

- Visited City University of Hong Kong for two months (April-June 2009) as Research Associate.
- Visited Shanghai University of Finance and Economics for four months as (September 2009-december 2009) exchange scholar.
- Visited King Khalid University Saudi Arabia for two years as Assistant Professor.

HOBBIES
Cricket, Hiking, Badminton