

Dr. Jafer Rahman

Assistant Professor of Statistics
Department of Maths & Stats
Hazara University Mansehra



ACADEMIC QUALIFICATIONS

Degree/Certificate	Major(s)	Year	University/Board
PhD	Statistics	2019	Jiangxi University of Finance & Economics, Nanchang, China
M.Phil	Statistics	2012	Quaid-i-Azam University, Islamabad
M.Sc	Statistics	2010	Quaid-i-Azam University, Islamabad
B.Sc	Math-A, Statistics, Computer	2007	Hazara University, Mansehra
F.Sc	Math, Statistics, Computer	2005	F.B.I.S.E, Islamabad
SSC	Physics, Chemistry, Biology	2003	B.I.S.E, Abbottabad

HONOURS/AWARDS

- “Excellent PhD Graduate” Award (Jun, 2019) on outstanding performance during PhD studies at Jiangxi University of Finance & Economics, Nanchang, China.
- “Excellent Overseas Student” Award (Nov, 2018) on outstanding performance during academic year 2017 – 2018 in PhD studies at Jiangxi University of Finance & Economics, Nanchang, China.
- “Merit” Award (Jun, 2010) on securing top first position in M.Sc. at Quaid-i-Azam University, Islamabad, Pakistan.
- First position among the fellows and ‘A’ grade throughout the academic programs.

COMPUTER PACKAGES

- R
- SPSS
- Mini Tab
- Mathematica

TEACHING EXPERIENCE

- Tutoring different courses of statistics in various departments at Hazara University Garden Campus Mansehra, Pakistan since October 2011 till date.
- Frequently taught courses at BS/M.Sc. level: Probability & Probability distributions, Bayesian Statistics, Nonparametric Statistics, Statistical Inference, Statistical Packages and Operations Research.
- Taught courses at MS/M.Phil/PhD level: Applied Statistical Techniques, Advanced Biostatistics and Advanced Data Analysis.

CONFERENCES/WORKSHOPS

- Attended USEFP's GRE Faculty Training Workshop entitled "GRE Train the Trainers" held on October 12, 2019 at United States Educational Foundation in Pakistan, Islamabad.
- Presented a paper in "The 5th Symposium of China Statistical Research Association on High-dimensional Data Statistics" held on April 19 - 21, 2019 in School of Mathematics and Statistics, Zhejiang Gongshang University, Hangzhou, China.
- Participated in "The 12th National Symposium on Survival Analysis and Applied Statistics" held on May 11 - 12, 2018 in School of Mathematical Sciences, Anhui University, Hefei, China.
- Participated in "The 3rd Symposium of the China Statistical Research Association on High-dimensional Data" held on April 21-23, 2017 in Economics School, Xiamen University, Xiamen, China.
- Attended a workshop "High-Dimensional Statistical Analysis", on December 11-15, 2015 at Institute of Statistical Science, Academia Sinica, Taipei, Taiwan.
- Presented a research article in "13th International Conference on Statistical Sciences" held on March 16-18, 2015 at Department of Statistics, Islamia College University, Peshawar, Pakistan.
- Participation in the "3rd International Conference on Statistical Sciences" on November 25-27, 2010 at College of Statistical and Actuarial Sciences University of the Punjab, Lahore, Pakistan.
- Internship in Price Section at Federal Bureau of Statistics Islamabad, during April-August, 2011.

RESEARCH WORK

- **Rahman, J.**, Liu, X. and Luo, S. (2024). Generalized Empirical Depth-Based Classification. *Under-review*.
- Sarfraz, J. and **Rahman, J.** (2024) Log-Mean-Log-Logistic Distribution: Classical & Bayesian Inference, and Application to Medical Data. *Under-review*.
- Zafar, U. B., **Rahman, J.**, Rauf, A., and Belay, M. B. (2024). Optimizing User Migration with SSLA: Secure and Seamless Data Transition. *Under-review*.
- Rauf, A., Nazir, A., and **Rahman, J.** (2024) Quantitative structure–property relationship (QSPR) modeling for evaluating fluorescence attributes across various aromatic heterocyclic compounds with ve-degree-based Sombor indices, *Chemical Papers*, DOI: <https://doi.org/10.1007/s11696-024-03539-7>. (IF: 2.1)
- Rauf, A., Naem, M., **Rahman, J.**, and Saleem, A. V. (2022) QSPR Study of Ve-Degree Based End Vertice Edge Entropy Indices with Physio-Chemical Properties of Breast Cancer Drugs, *Polycyclic Aromatic Compounds*, DOI: [10.1080/10406638.2022.2086272](https://doi.org/10.1080/10406638.2022.2086272). (IF: 1.9)
- Zhong, J. F., Rauf, A., Naem, M., **Rahman, J.**, and Aslam, A. (2021). Quantitative Structure-Property Relationships (QSPR) of Valency Based Topological Indices with Covid-19 drugs and Application. *Arabian Journal of Chemistry*, 103240. 14 (7), 2021, 103240, ISSN 1878-5352, <https://doi.org/10.1016/j.arabjc.2021.103240>. (IF: 5.8)

- **Rahman, J.**, Luo, S., Fan, Y. and Liu, X. (2020). Semiparametric Efficient Inferences for Generalized Partially Linear Models. *Journal of Nonparametric Statistics*, 32 (3), 704 - 724, DOI: 10.1080/10485252.2020.1790557, <https://doi.org/10.1080/10485252.2020.1790557>. (IF: 1.1)
- Liu, X., **Rahman, J.** and Luo, S. (2019). Generalized and Robustified Empirical Depths for Multivariate Data. *Statistics & Probability Letters*, 146, 70 - 79. (IF: 0.8)
- **Rahman, J.** (2018) Bayesian Point and Interval Prediction of Ordered Observations in Future Censored Samples from Contagious Geometric Distribution. *American Journal of Mathematical and Management Sciences*, 37 (4), 370 - 385.
- **Rahman, J.** and Aslam, M. (2017) On Estimation of Two-component Mixture Inverse Lomax Model via Bayesian Approach. *International Journal of Systems Assurance Engineering and Management*, 8 (1), 99 - 109.
- **Rahman, J.** and Aslam, M. (2015) On Bayesian Prediction of Future Quartiles in Mixture Geometric Distribution under Various Censoring Techniques. *Proc. 13th International Conference on Statistical Sciences Peshawar, Pakistan – March 16 - 18, 2015*, 28, 197 - 204.
- **Rahman, J.** and Aslam, M. (2014) Interval Prediction of Future Order Statistics in Two-component Mixture Inverse Lomax Model: A Bayesian Approach. *American Journal of Mathematical and Management Sciences*, 33 (3), 216 - 227.
- **Rahman, J.**, Aslam, M. and Ali, S. (2013) Estimation and Prediction of Inverse Lomax Model via Bayesian Approach. *Caspian Journal of Applied Sciences Research*, 2 (3), 43 - 56.

SUPERVISION OF M.PHIL THESES

- Log-Mean Exponential Model: Bayesian and Non-Bayesian Estimation, Application in Survival Analysis (2024)
- Log-Mean-Log-Logistic Distribution: Classical and Bayesian Inference and Applications (2024)

LANGUAGES

- English
- Urdu
- Hindko
- Punjabi

COUNTRIES VISITED

- Pakistan
- Taiwan
- Thailand
- China
- Saudi Arabia