

Dr. Maha Shabbir

CONTACT

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QUALITIFICATION Doctor of Philosophy in Statistics

EDUCATION	Doctor of Philosophy in Statistics College of Statistical Sciences University of the Punjab, Lahore, Pakistan	2017-2024
	Master of Philosophy (M.Phil.) in Statistics College of Statistical and Actuarial Sciences University of the Punjab, Lahore, Pakistan	2014-2016
	Master of Science (M.Sc.) in Statistics Garrison Post Graduate College For Women, Lahore Cantt. Degree: University of the Punjab, Lahore, Pakistan	2011-2013
	Bachelor of Science (B.Sc.) F.G. Degree College Quetta Cantt., Pakistan Degree: University of the Punjab, Lahore, Pakistan	2009-2011
	Higher Secondary School Certificate (HSSC) F.G. Degree College Quetta Cantt., Pakistan FBISE, Islamabad	2007-2009
	Cambridge O' Level Beaconhouse School System, Juniper Campus, Quetta Certified: University of Cambridge, London, UK	2007

WORK EXPERIENCE

Assistant Professor	Department of Mathematics and Statistical Sciences, Lahore School of Economics, Pakistan	May 2024– Present
Risk Analyst	Officer Risk Systems, Risk Management Group, MCB House, Jail Road, Lahore	January 2024 – April 2024
Lecturer Statistics (Visiting)	Department of Economics and Quantitative Methods University of Management and Technology, Lahore Pakistan Course-I: Business Mathematics Course-II: Bio-Statistics-I	Spring 2023
	Department of Geography, University of the Punjab, Lahore, Pakistan Course-I: Quantitative Methods Course-II: Introduction to Statistics	December 2022 - May 2023
	School of Economics University of the Punjab, Lahore, Pakistan Course: Probability and Probability Distributions	July 2022 - December 2022

RESEARCH PUBLICATIONS

S. No.	Paper Title	HEC Category	Impact Factor (IF)
1	Shabbir, M. , Chand, S., Iqbal, F., & Kisi, O. (2025). Novel Hybrid Approach for River Inflow Modeling: Case Study of the Indus River Basin, Pakistan. <i>Journal of Hydrologic Engineering</i> , 30(3), 04025006. https://doi.org/10.1061/JHYEFF.HEENG-6368	W	1.9
2	Shabbir, M. , Chand, S., & Dar, I. S. (2025). Bagging-based heteroscedasticity-adjusted ridge estimators in the linear regression model. <i>Kuwait Journal of Science</i> , 52(3), 100412. https://doi.org/10.1016/j.kjs.2025.100412	W	1.1
3	Chand, S., & Shabbir, M. (2025). A new robust ridge estimator for linear regression model with non normal, heteroscedastic and autocorrelated errors. <i>Communications in Statistics-Theory and Methods</i> , 1-17. https://doi.org/10.1080/03610926.2025.2479640	W	0.9
4	Shah, S. A. A., Zaman, Q., Wasim, D., Allohbi, J., Alharbi, A. A., & Shabbir, M. (2025). Optimal model for predicting highest runs chase outcomes in T-20 international cricket using modern classification algorithms. <i>Alexandria Engineering Journal</i> , 114, 588-598. https://doi.org/10.1016/j.aej.2024.11.113	W	6.8
5	Wasim, D., Suhail, M., Khan, S. A., Shabbir, M. , Awwad, F. A., Ismail, E. A., ... & Ali, A. (2025). Quantile-based robust Kibria–Lukman estimator for linear regression model to combat multicollinearity and outliers: Real life applications using T20 cricket sports and anthropometric data. <i>Kuwait Journal of Science</i> , 52(1), 100336. https://doi.org/10.1016/j.kjs.2024.100336 .	W	1.1
6	Shabbir, M. , Chand, S., & Dar, I. S. (2025). Heteroscedastic-adjusted standard error based estimation of ridge parameter in the linear regression model. <i>Communications in Statistics-Theory and Methods</i> , 1-15. https://doi.org/10.1080/03610926.2025.2474633 .	W	0.9
7	Shabbir, M. , Chand, S., & Iqbal, F. (2024). A novel hybrid approach based on outlier and error correction methods to predict river discharge using meteorological variables. <i>Environmental and Ecological Statistics</i> , 1-28. https://doi.org/10.1007/s10651-024-00628-4	W	3.0
8	Zaman, Q., Wasim, D., Nawaz, S., & Shabbir, M. (2025). Modified robust ridge M-estimators to improve linear regression performance under multicollinearity and outliers. <i>Journal of Statistical Computation and Simulation</i> , 1-23. https://doi.org/10.1080/00949655.2025.2573859	W	1.2
9	Wasim, D., Khan, S. A., Suhail, M., & Shabbir, M. (2025). New penalized M-estimators in robust ridge regression: real life applications using sports and tobacco data. <i>Communications in Statistics-Simulation and Computation</i> , 54(6), 1746-1765. https://doi.org/10.1080/03610918.2023.2293648	W	0.8
10	Shabbir, M. (2025). A New Approach for the Estimation of ridge parameter in linear regression model with heteroscedastic errors. (<i>Conference Paper</i>)	-	-
11	Dar, I. S., Chand, S., & Shabbir, M. (2025). An improved ridge-type estimator leveraging weighted least squares and horn’s scaling for heteroscedastic regression. <i>Communications in Statistics-Theory and Methods</i> , 1-20. https://doi.org/10.1080/03610926.2025.2535399 .	W	0.9
12	Wasim, D., Suhail, M., Albalawi, O., & Shabbir, M. (2024). Weighted penalized m-estimators in robust ridge regression: an application to gasoline consumption data. <i>Journal of Statistical Computation and Simulation</i> , 1-30. https://doi.org/10.1080/00949655.2024.2386391 .	X	1.1
13	Wasim, D., Khan, S.A., Bashir, A., & Shabbir, M. (2024). Statistical Study of Impact of Services on Balance of Payment in Pakistan. <i>International Journal of Contemporary Issues in Social Sciences</i> , 3(2), 2050-2057. https://ijciss.org/index.php/ijciss/article/view/920/1014	Y	-
14	Shabbir, M. , Chand, S., & Iqbal, F. (2024). A novel hybrid framework to model the relationship of daily river discharge with meteorological variables. <i>Meteorology Hydrology and Water Management</i> . https://doi.org/10.26491/mhwm/187899	Y	0.6
15	Shabbir, M. , Chand, S., Iqbal, F., & Kisi, O. (2024). Hybrid Approach for Streamflow Prediction: LASSO-Hampel Filter Integration with Support Vector Machines, Artificial Neural Networks, and Autoregressive Distributed Lag Models. <i>Water Resources Management</i> , 1-18. https://doi.org/10.1007/s11269-024-03858-0	W	4.3
16	Shabbir, M. , Chand, S., & Iqbal, F. (2024). Novel hybrid and weighted ensemble models to predict river discharge series with outliers. <i>Kuwait Journal of Science</i> , 51(2), 100188. https://doi.org/10.1016/j.kjs.2024.100188	W	1.4
17	Wasim, D., Khan, S.A., Suhail, M., Shabbir, M. (2023). New Penalized M-estimators in robust ridge regression: Real life applications using Sports and Tobacco Data <i>Communications in Statistics-Simulation and Computation</i> . 1-20. https://doi.org/10.1080/03610918.2023.2293648	X	0.9
18	Shabbir, M. , Chand, S., & Iqbal, F. (2023). A new ridge estimator for linear regression model with some challenging behavior of error term. <i>Communications in Statistics-Simulation and Computation</i> , 1-11. https://doi.org/10.1080/03610918.2023.2186874 .	X	0.9
19	Shabbir, M. , Chand, S., & Iqbal, F. (2023). Prediction of river inflow of the major tributaries of Indus river basin using hybrids of EEMD and LMD methods. <i>Arabian Journal of Geosciences</i> , 16(4), 257. https://doi.org/10.1007/s12517-023-11351-y .	X	1.827

20	Shabbir, M., Chand, S., & Iqbal, F. (2023). A new hybrid model to predict streamflow. Published in the 6 th <i>International Researchers, Statisticians and Young Statisticians Congress (IRSYSC2022) Proceedings</i> . Suleyman Demirel University, Isparta, Türkiye held on 03-06 November 2022. http://irsysc2022.com/files/IRSYSC2022_Proceeding_Book_v2.pdf	-	-
21	Dar I.S., Chand, S., Shabbir, M., and Kibria B.M.G. (2022). Conditional-Index based New Ridge Regression Estimator for Linear Regression Model with Multicollinearity. <i>Kuwait Journal of Science</i> . 1-12. https://doi.org/10.1016/j.kjs.2023.02.013 .	W	0.948
22	Shabbir, M., Chand, S., and Iqbal, F. (2022). Bagging-based ridge estimators for a linear regression model with non-normal and heteroscedastic errors. <i>Communications in Statistics-Simulation and Computation</i> , 1-15. https://doi.org/10.1080/03610918.2022.2109675 .	X	1.162
23	Shabbir, M., Chand, S., and Iqbal, F. (2022). A Novel Hybrid Method for River Discharge Prediction. <i>Water Resources Management</i> , 36(1), 253-272. https://doi.org/10.1007/s11269-01-03026-8 .	W	3.517
24	Riaz, A., Akhter, A.S., and Shabbir, M. (2019). INVERSE EXPONENTIAL LOMAX DISTRIBUTION: PROPERTIES AND APPLICATION. In <i>15th Islamic Countries Conference on Statistical Sciences (ICCS-15)</i> (p. 157).	-	-
25	Shabbir, M., Riaz, A., and Gull, H. (2018). Rayleigh Lomax Distribution. <i>The Journal of Middle East and North Africa Sciences</i> , 4(12), 1-4.	-	-
26	Shabbir, M., Noor, N., Riaz, A., and Gull, H. (2017). The New Weibull Lomax Distribution. <i>Imperial Journal of Interdisciplinary Research</i> , 3(1), 1881-1885.	-	-

RESEARCH INTERESTS

Probability distributions, Statistical modeling, Machine learning, Ridge regression

CONFERENCES ATTENDED

National:

15th Islamic Countries Conference on Statistical Sciences (ICCS-15). 21-24 December 2019 held at Lahore Institute of Science and Technology, Lahore, Pakistan.

2nd International Conference on Recent Trends in Statistics and Data Analytics. 14-15 December 2023 held at School of Natural Sciences NUST H-12, Islamabad, Pakistan

20th Conference on Recent Advances in Mathematical Methods, Models and Applications 19-20 April 2025 held at Lahore School of Economics, Lahore, Pakistan

International:

6th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC2022) organized by Suleyman Demirel University. 03-06 November 2022 held at Antalya, Turkey.

COMPUTATIONAL SKILLS

R programming, Python, SPSS, Microsoft Office (Word, Excel and PowerPoint)

REVIEWER

Istanbul Business Research
Communications in Statistics - Theory and Methods
Water Resources Management
Journal of Quantitative Methods
Theoretical and Applied Climatology
Earth Science Informatics
Scientific Reports
Journal of Pharmaceutical Innovation

REFERENCES

Available upon request