

DR. AAMNA KHAN
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Department of Statistics,
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Summary of Skills

- Over **8** years of experience in teaching *Postgraduate and graduate courses*
- Proficiency in using *Statistical Analysis Software Packages*
- Over **8** years of experience in teaching *Social Statistics in Behavioral Sciences*

Education:

Bahauddin Zakariya University, Multan (Pakistan):

- ***Ph.D. Statistics*** (2021)
- ***M.Phil. Statistics*** (2008)
- ***M.Sc. Statistics*** (2006)

Academic appointments:

Bahauddin Zakariya University, Multan (Pakistan):

17-07-2023 to to-Date

Assistant Professor (OPS), Department of Statistics

October 04, 2016 to 16-07-2023

Lecturer, Department of Statistics,

Honors and Awards:

- *M.Phil. (Statistics)* ***First Position*** in the University and award ***Gold Medal***
- *M. Sc (Statistics)* ***First Position*** in the University and award ***Gold Medal***
- Member ISOSS
- Member Royal Statistical Society

Students Supervised: Bahauddin Zakariya University, Multan, Pakistan:

- Served as Supervisor/Co-Supervisor for the **Ph.D. theses in Statistics**

Sr. #	Name	Title	Status
1	Ms. Neelam Bukhari	Honest Estimation of Sensitive Attributes Using Randomized Response Techniques in Survey Sampling	In Progress

- Served as Supervisor for the **M. Phil thesis in Statistics**

Sr. #	Name of Scholar	Subject	Year	Title of Research Thesis
1	Humera Javaid	Statistics	2016-18	Comparative Analysis of Outlier Detection Methods in Multiple Linear Regression
2	Aleena Saher Fatima	Statistics	2016-18	Statistical Analysis of Vitamin D Deficiency in Alopecia Areata

3	Ayesha Junaid	Statistics	2021-23	A new modified two parameter estimator for beta regression model
4	Maryam Batool	Statistics	2021-23	A Comparative Analysis of Regression Models for Count Data
5	Samreen Murad	Statistics	2021-23	A New Conway Maxwell-Poisson Liu Regression Estimators
6	Rehana Nayab	Statistics	2021-23	A Simulation Study of some Shrinkage Estimators For Poisson Regression model
7	Isha Iftikhar	Statistics	2022-24	Yet to be finalized

- Served as an advisor for the Undergraduate program in BS (4-Year) Statistics students
- Served as an advisor for the Postgraduate program in M.Sc. Statistics students
- Served as an advisor for the Postgraduate program in M.Sc. Applied Psychology students

Research Publications: 12

Sr. #	Year	Title of Paper	Journal	HEC Category (W,X,Y,Z) / Impact Factor	Vol. No.	Issue No.	Page No. From	Page No. To
1	2021	Influence diagnostics for the Poisson regression model using two-parameter estimator	Alexandria Engineering Journal	W / 4.2	60	5	4745	4759
2	2012	Evaluation of rate trend patterns via segmented regression: Case study of crime rates of Pakistan	Scientific Research and Essays	X / 2.0	7	27	2251	2254
3	2021	A generalized exponential-type estimator for population mean using auxiliary attributes	PLOS ONE	W / 3.8	16	5	e0246947	e0246947
4	2022	Obesity, Smoking and Stress: Exploring Correlates of Stress	Pak-Euro Journal of Medical and Life Sciences	X / 1.5	5	1	177	182
5	2022	Response surface models using the wavelet technique for reservoir inflow prediction	Mathematical Problems in Engineering	W / 3.5	2022	1	5171969	5171969
6	2020	Severity of Coronary Artery Disease in Prediabetic Patients Undergoing Elective Coronary Angiography	Cureus	Y / 2.8	12	5	-	-
7	2023	Neural network calibration estimation with high-dimensional data in survey sampling: Evidence using Monte Carlo simulation scheme	Pak. J. Statist	X / 2.3	39	3	299	312
8	2024	Modified two-parameter ridge estimator for beta regression model	Journal of Radiation Research and Applied Sciences	Y / 3.5	17	2	100905	
9	2024	A new modified biased estimator for Zero-inflated Poisson regression model	Heliyon	W / 3.2	10	3	-	
10	2024	Modified median quartile double ranked set sampling for estimation of population mean	Heliyon	W / 3.2	10	14	-	

11	2024	Integrating endogeneity in survey sampling using instrumental-variable calibration estimator	Heliyon	W / 3.2	10	13	-	
12	2024	Estimating the Students' behavior toward their potential marital tendencies	Journal of Excellence in Social Sciences	X / 2.0	3	2	47	

Field of Interest:

- Applied Statistics,
- Linear Models and Regression Analysis,
- Population Studies,
- Design and Analysis of Experiments
- Regression Diagnostics