

CURRICULUM VITAE

Tahir Abbas

Department of mathematics
University of Sharjah, UAE.



PERSONAL DATA

Last Name: Abbas

First Name: Tahir

Father Name: Malik Abdul Aziz

Marital status: Married

Citizenship: Pakistan

Languages: English, Urdu

EDUCATION

- 2016** **Ph.D. in Statistics., Department of Statistics, School of Economics, Xiamen University, Xiamen, China**
- 2010** **M.Phil. in Statistics., Department of Statistics, Quaid-i-Azam University, Islamabad, Pakistan**
- 2006** **M.Sc. in Statistics., Department of Statistics, Quaid-i-Azam University, Islamabad, Pakistan**
- 2003** **B.Sc. in Science, Major in Mathematics, Statistics & Economics, Bahauddin Zakariya University, Multan, Pakistan**

ACADEMIC EXPERIENCES

2023-Now: Assistant Professor, Department of Mathematics, College of Sciences, University of Sharjah, UAE.

2017-2023: Assistant Professor, Department of Statistics, GC University, Lahore, Pakistan.

2012-2017: Lecturer, Department of Statistics, GC University, Lahore, Pakistan.

2009-2012: Lecturer, Department of Mathematics, COMSATS University of Science and Technology Islamabad, Abbottabad Campus, Pakistan.

2007-2008: Statistical Officer under National Internship Program (NIP), Sindh Bureau of Statistics, P & D department, Karachi, Pakistan.

Graduate and Undergraduate Courses Taught

- Statistical Quality Control
- Bayesian Statistics
- Experimental Designs
- Econometrics

- Probability and Probability distributions
- Regression Analysis
- Introduction to Probability and Statistics
- Operation Research
- Distribution Theory
- Introductory Statistics
- Business Statistics
- Biostatistics
- Applied Statistics
- Statistical Inference
- Probability Theory and Random Variables
- Calculus-I for Engineering
- Algebra for Business
- Calculus for Engineering

Research Interest

- Statistical Quality Control
- Linear Profile Monitoring
- Bayesian Application for Process Monitoring
- Computational Statistics

Research Grants

PI: Monitoring of linear profiles with random explanatory variables using DEWMA charts. 2017-2019, funded by ORIC (GC University Lahore) under Notification No. 179/ORIC/17.

Book Chapter

Coauthor in One Book Chapter Published by ELSEVIER in 2023.

Title: Cognitive Intelligence with Neutrosophic Statistics in Bio Informatics

<https://p-y3-www-amazon-in-kalias.amazon.in/Intelligence-Neutrosophic-Statistics-Bioinformatics-Sustainable/dp/0323994563>

Selected Research Publications

- Abbasi, S. A., **Abbas, T.**, and Adegoke, N. A. (2022). Improved Simple Linear Profiling Methods with Application to Chemical Gas Sensors. *Quality and Reliability Engineering International (ISSN: 1099-1638)*, 37(8), 3179-3191 (<https://doi.org/10.1002/qre.2902>).
- **Abbas, T.**, Mahmood, T., Riaz, M., and Abid, M. (2020). Improved linear profiling methods under classical and Bayesian setups: An application to chemical gas sensors. *Chemometrics and Intelligent Laboratory Systems (ISSN: 0169-7439)*, 196(2020), 103908, (<https://doi.org/10.1016/j.chemolab.2019.103908>).
- **Abbas, T.**, Rafique, F., Mahmood, T., and Riaz, M. (2019). Efficient Phase II Monitoring Methods for Simple Linear Profiles under the Random Effect Model. *IEEE Access (ISSN: 2169-3536)*, 7(1), 148278-148296, (<https://doi.org/10.1109/ACCESS.2019.2946211>).
- **Abbas, T.**, Zaman, B., Atir, A., Riaz, M., and Abbasi, S. A. (2019). Improved Variability Control Charts for Rank Set Schemes under Normal and Non-normal Processes. *Quality and Reliability Engineering International (ISSN: 1099-1638)*, 35(5), 1313-1341, (<https://doi.org/10.1002/qre.2531>).

- Abbasi, S. A., **Abbas, T.**, and Adegoke, N. A. (2019). Efficient CV Control Charts Based on Ranked Set Sampling. *IEEE Access* (ISSN: 2169-3536), 7(1), 78050-78062, (<https://doi.org/10.1109/ACCESS.2019.2920873>).
- **Abbas, T.**, Qian, Z., Ahmad, S., and Riaz, M. (2019). On the Bayesian Monitoring of Linear Profiles Based on CUSUM Control Charts. *Communications in Statistics-Simulation and Computation* (ISSN: 0361-0918), 48(1) 126-149. (<https://doi.org/10.1080/03610918.2017.1375520>).
- **Abbas, T.**, Abbasi, S. A., Riaz, M., and Qian, Z. (2019). Phase II Monitoring of Linear Profiles with Random Explanatory variable under Bayesian Framework. *Computers and Industrial Engineering* (ISSN: 0360-8352), 127(2019), 1115-1129, (<https://doi.org/10.1016/j.cie.2018.12.001>).
- Abbasi, S. A., **Abbas, T.**, Riaz, M., and Gomaa, A. (2018). Bayesian Schemes of Linear Profiles Monitoring with Random X using Bayesian DEWMA Control Structures. *IEEE Access* (ISSN: 2169-3536), 6(1), 78370-78385, (<https://doi.org/10.1109/ACCESS.2018.2885014>).
- **Abbas, T.**, Qian, Z., Ahmad, S., and Riaz, M. (2017). Bayesian Monitoring of Linear Profile Monitoring Using DEWMA Charts. *Quality and Reliability Engineering International* (ISSN: 1099-1638), 33(8), 1783-1812.
- **Abbas, T.**, Qian, Z., Ahmad, S., and Riaz, M. (2016). On Monitoring of Linear Profiles Using Bayesian Methods. *Computers and Industrial Engineering* (ISSN: 0360-8352), 94(2016), 245-268 (<http://dx.doi.org/10.1016/j.cie.2016.02.007>).

Conference Papers

- Javed, A., **Abbas, T.**, Abbas, N. (2022). Bayesian and E-Bayesian Estimation of the Exponentiated Exponential Distribution Using Subjective Prior. To be presented at *International Conference on recent trends in statistics and data analysis being held on 23-24, September 2022 in NUST Islamabad*.
- Javed, A., Abbas, N., **Abbas, T.** (2022). A Bayesian Approach to Analyze the Waiting Time Data using Generalized Exponential Distribution. Presented at *19th the International Conference on Statistical Sciences, held on March 17-19 March 2022 at the University of Agriculture Faisalabad, Pakistan*.
- Javed, A., **Abbas, T.**, Abbas, N. (2022). On examining Complex Structure Using the Wald Distribution to Assess the Life Time Performance of Products in Classical and Bayesian Setups. Presented at *Second International Conference on Statistical Sciences (ICSS-2022) held on 9-10 March 2022 at Govt. College University, Lahore, Pakistan*.
- **Abbas, T.**, Qian, Z. (2014). Bayesian Inference of Erythrocyte Sedimentation Rate using Logistic Regression Models, Presented at *2014 China Meeting of Econometric Society (CMES) Conference, CP02*.
- **Abbas, T.** (2011). Logistic Regression Analysis using Bayesian Settings, Presented at *2011 Symposium on CCIS (Techno Moot 2011) COMSATS Institute of Information Technology Abbottabad Campus*.

PROFESSIONAL ACTIVITIES

Reviewer for Journals:

- Communications in Statistics – Theory and Methods
- PLOS ONE
- Journal of Chemometrics
- IEEE ACCESS
- International Journal of Production Research
- Quality and Reliability Engineering International
- Scientia Iranica
- Communications in Statistics – Simulation and Computation
- Journal of King Saud University

Research Thesis Supervised

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| 2022 | On Efficient Process Monitoring Using Double HWMA Chart Based On Bayesian Setup |
| 2022 | An HWMA Chart for the Monitoring of Process Variability under Classical and Bayesian Setup |
| 2021 | Efficient Control Charting Structures for the Monitoring of Simple Linear Profile Under Bayesian Setup |

- 2021 Bayesian and Classical Analyses for Economic Growth of Developed and Developing Countries
- 2021 Alternative Methods for the Monitoring of Bayesian Control Charts of Linear Profile Parameters
- 2020 Development of Double EWMA Control Charts Based on Median Run Length
- 2020 Evaluation of Bayesian Linear Profile using Double CUSUM Charts
- 2019 Memory Based Control Charts for Monitoring Process Mean using Different Rank Set Sampling
- 2019 Phase II Monitoring of Simple Linear Profiles with Random Explanatory Variables using Rank Set Sampling
- 2019 Monitoring the Simple Linear Profiles using Run Rules in Phase II