

# Abdul Haq

## Curriculum Vitae

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📍 Department of Statistics, Quaid-i-Azam University, Islamabad, Pakistan  
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### Education

2014 DPhil – Statistics University of Canterbury (UoC), Christchurch, New Zealand.  
2010 MPhil – Statistics Quaid-i-Azam University (QAU), Islamabad, Pakistan.  
2007 MSc – Statistics QAU, Islamabad, Pakistan.  
2005 BSc – Math, Stat, Eco University of the Punjab, Lahore, Pakistan.

### Employment

Asst. Prof. Jan 2015 to date Department of Statistics (DoS), QAU, Islamabad, Pakistan.  
Lecturer Oct 2014 to Dec 2014 DoS, QAU, Islamabad, Pakistan.  
Lecturer Sep 2010 to Sep 2012 DoS, QAU, Islamabad, Pakistan.  
Lecturer Jan 2010 to Jul 2010 Department of Sciences and Humanities, NU-FAST, Islamabad-Campus, Pakistan.  
Trainee Aug 2007 to Dec 2007 Higher Education Commission, Islamabad, Pakistan.

### Scholarship, Distinction, Award, and Fellowship

2020 Ranked among the top two percent researchers in a global list compiled at the Stanford University.  
2018 Senior Adjunct Fellow, School of Mathematics and Statistics, UoC, Christchurch, New Zealand.  
2017 Research Productivity Award, Pakistan Council for Science and Technology.  
2012 Three years: UoC International Doctoral Scholarship, New Zealand.  
2010 Chancellor Medal (MPhil Statistics): First Position in the DoS, and Second Position in the Faculty of Natural Sciences, QAU, Islamabad, Pakistan.  
2007 Second Position (MSc Statistics) in the DoS, QAU, Islamabad, Pakistan.  
2005 Two years: Talent Forming Scheme, Higher Education Commission, Islamabad, Pakistan.  
2005 Shield: Third Position in BSc, FG Sir Syed College, The Mall, Rawalpindi, Pakistan.

### Computer Skills

Mathematica, R, Julia,  $\text{\LaTeX}$ .

### Courses Taught

Level	Title
BS	Probability & Statistics, Basic Statistical Inference.
BS/MSc	Probability & Probability Distributions–II, Statistical Inference I & II, Bayesian Statistics, Experimental Designs–II, Statistical Packages.
MPhil/DPhil	Estimation Theory, Hypothesis Testing, Bayesian Inference, Recent Developments in Statistics.

### Research Interests

Statistical Process Control; Survey Sampling; Order Statistics.

### MPhil Theses Supervised

16. S. Akhtar (2020) Auxiliary-information-based memory-type control charts with variable sampling intervals for monitoring the process parameters.
15. N. Bibi (2020). Enhanced EWMA control charts for monitoring the coefficient of variation
14. S. Ejaz (2020). Double EWMA- $t$  control charts for monitoring the process mean.
13. M. Bibi (2020). Profile monitoring with individual observations.
12. F. Razzaq (2019). Weighted adaptive CUSUM charts for monitoring process mean and variance.
11. T. Munir (2019). Dual multivariate CUSUM control charts for monitoring process mean.

10. S. Hussain (2018). Estimation of finite population distribution function with dual use of auxiliary information.
9. L. Bibi (2018). Improved dual CUSUM control charts for monitoring process mean.
8. Z. U. Abidin (2018). Memory-type control charts for monitoring process mean using auxiliary information.
7. I. Hussain (2018). Estimation of population mean with dual use of auxiliary information.
6. M. Anwar (2018). Bayesian inference using record values from inverted probability distributions.
5. S. Abbasi (2018). New adaptive CUSUM control charts for monitoring process mean.
4. R. Gulzar (2017). New adaptive EWMA control charts.
3. W. Munir (2017). New cumulative sum control charts for monitoring process mean and process dispersion.
2. R. Ali (2017). Memory-type control charts for monitoring process mean and process dispersion.
1. M. Awais (2017). Quality control charts for monitoring process mean using varied L ranked set sampling.

### ISI Research Publications

98. Lee, M.H., Khoo, M.B.C., **Haq, A.**, & Chew, W.Y. (2021). Economic-statistical design of the variable sampling interval Poisson EWMA chart. *Communications in Statistics - Simulation and Computation*, accepted for publication.
97. **Haq, A.** & Munir, W. (2021). Enhanced cumulative sum control charts for process mean. *International Journal of Industrial Engineering: Theory, Applications and Practice*, accepted for publication.
96. **Haq, A.**, Khoo, M.B.C., Lee, M.H. & Abbasi, S.A. (2021). Enhanced adaptive multivariate EWMA and CUSUM charts for process mean. *Journal of Statistical Computation and Simulation*, accepted for publication.
95. **Haq, A.** & Khoo, M.B.C. (2021). Memory-type control charts with multiple auxiliary information for process mean. *Quality and Reliability Engineering International*, early view. <https://doi.org/10.1002/qre.2861>
94. **Haq, A.** & Sohrab, K. (2021). Directionally sensitive MCUSUM mean charts. *Quality and Reliability Engineering International*, early view. <https://doi.org/10.1002/qre.2851>
93. **Haq, A.**, Akhtar, S. & Khoo, M.B.C. (2021). Adaptive CUSUM and EWMA charts with auxiliary information and variable sampling intervals for monitoring the process mean. *Quality and Reliability Engineering International*, 37(1), 47–59. <https://doi.org/10.1002/qre.2719>
92. **Haq, A.** & Syed, E. A. (2020). New CUSUM and dual CUSUM mean charts. *Quality and Reliability Engineering International*, early view. <https://doi.org/10.1002/qre.2799>
91. **Haq, A.** (2020). Adaptive MEWMA charts for univariate and multivariate simple linear profiles. *Communications in Statistics - Theory and Methods*, early view. <https://doi.org/10.1080/03610926.2020.1839100>
90. **Haq, A.** & Akhtar, S. (2020). Auxiliary information based maximum EWMA and DEWMA charts with variable sampling intervals for process mean and variance. *Communications in Statistics - Theory and Methods*, early view. <https://doi.org/10.1080/03610926.2020.1805766>
89. **Haq, A.**, Ejaz, S., & Khoo, M.B.C. (2020). A new double EWMA- $t$  chart for process mean. *Communications in Statistics - Simulation and Computation*, early view. <https://doi.org/10.1080/03610918.2020.1805630>
88. **Haq, A.**, Bibi, M., & Shah, B.A. (2020). A novel approach to monitor simple linear profiles using individual observations. *Communications in Statistics - Simulation and Computation*, early view. <https://doi.org/10.1080/03610918.2020.1799229>
87. Khoo, M.B.C., Saha, S., Teh, S.Y., **Haq, A.** & Lee, H.C. (2020). The median control chart for process monitoring in short production runs. *Communications in Statistics - Simulation and Computation*, early access. <https://doi.org/10.1080/03610918.2020.1783557>

86. Min, F.N., Khoo, M.B.C., Saha, S., & **Haq, A.** (2020). New run sum  $t$  charts with variable sampling intervals for process mean. *Communications in Statistics - Simulation and Computation*, early access. <https://doi.org/10.1080/03610918.2020.1770285>
85. Saha, S., Khoo, M.B.C., Castagliola, P., & **Haq, A.** (2021). Side-sensitive modified groups runs charts with and without measurement errors for monitoring the coefficient of variation. *Quality and Reliability Engineering International*, 37(2), 598–617. <https://doi.org/10.1002/qre.2751>
84. Ayyoub, H.N., Khoo, M.B.C., Lee, M.H., & **Haq, A.** (2021). Monitoring multivariate coefficient of variation with upward Shewhart and EWMA charts in the presence of measurement errors using the linear covariate error model. *Quality and Reliability Engineering International*, 37(2), 694–716. <https://doi.org/10.1002/qre.2757>
83. Abbasi, S., & **Haq, A.** (2020). New adaptive CUSUM charts for process mean. *Communications in Statistics - Simulation and Computation*, 49(11), 2944–2962. <https://doi.org/10.1080/03610918.2018.1530786>
82. **Haq, A.** & Razzaq, F. (2020). Maximum weighted adaptive CUSUM charts for simultaneous monitoring of process mean and variance. *Journal of Statistical Computation and Simulation*, 90(16), 2949–2974. <https://doi.org/10.1080/00949655.2020.1793154>
81. **Haq, A.**, Bibi, N., & Khoo, M.B.C. (2020). Enhanced EWMA charts for monitoring the process coefficient of variation. *Quality and Reliability Engineering International*, 36(7), 2478–2494. <https://doi.org/10.1002/qre.2710>
80. **Haq, A.** & Khoo, M.B.C. (2020). Multivariate process dispersion monitoring without subgrouping. *Journal of Applied Statistics*, 47(9), 1652–1675. <https://doi.org/10.1080/02664763.2019.1688262>
79. **Haq, A.** & Abidin, Z.U. (2020). An enhanced GWMA chart for process mean. *Communications in Statistics - Simulation and Computation*, 49(4), 847–866. <https://doi.org/10.1080/03610918.2018.1484479>
78. **Haq, A.**, Munir, T., & Shah, B.A. (2020). Dual multivariate CUSUM charts with auxiliary information for process mean. *Quality and Reliability Engineering International*, 36(3), 861–875. <https://doi.org/10.1002/qre.2604>
77. Umar, A.A., Khoo, M.B.C., Saha S., **Haq, A.** (2020). A combined variable sampling interval and double sampling control chart with auxiliary information for the process mean. *Transactions of the Institute of Measurement and Control*, 42(6), 1151–1165. <https://doi.org/10.1177/0142331219885525>
76. **Haq, A.** & Khoo, M.B.C. (2020). Memory-type multivariate charts with fixed and variable sampling intervals for process mean when covariance matrix is unknown. *Quality and Reliability Engineering International*, 36(1), 144–160. <https://doi.org/10.1002/qre.2564>
75. **Haq, A.** (2020). A nonparametric EWMA chart with auxiliary information for process mean. *Communications in Statistics - Theory and Methods*, 49(5), 1232–1247. <https://doi.org/10.1080/03610926.2018.1554140>
74. **Haq, A.** (2020). A maximum adaptive EWMA control chart for monitoring process mean and variability. *Quality Technology & Quantitative Management*, 17(1), 16–31. <https://doi.org/10.1080/16843703.2018.1530181>
73. **Haq, A.** (2020). One-sided and two one-sided MEWMA charts for monitoring process mean. *Journal of Statistical Computation and Simulation*, 90(4), 699–718. <https://doi.org/10.1080/00949655.2019.1699926>
72. **Haq, A.** & Khoo, M.B.C. (2020). A parameter-free adaptive EWMA mean chart. *Quality Technology & Quantitative Management*, 17(5), 528–543. <https://doi.org/10.1080/16843703.2019.1688128>
71. **Haq, A.**, Munir, T., & Khoo, M.B.C. (2019). Dual multivariate CUSUM mean charts. *Computers & Industrial Engineering*, Computers, 137 (November), 106028. Impact Factor 4.135.
70. **Haq, A.** & Bibi, L. (2019). The dual CUSUM charts with auxiliary information for process mean. *Communications in Statistics - Simulation and Computation*, early view.
69. Awais, M., & **Haq, A.** (2019). New Shewhart-EWMA and Shewhart-CUSUM control charts for monitoring process mean. *Scientia Iranica, Transactions E: Industrial Engineering*, 26(6), 3796–3818. Impact Factor 1.017.

68. **Haq, A.** & Abidin, Z.U. (2019). An enhanced CUSUM- $t$  chart for process mean. *Quality and Reliability Engineering International*, 35(7), 2067–2080. Impact Factor 1.718.
67. **Haq, A.** (2019). Ordered partially ordered judgment subset sampling with applications to parametric inference. *Journal of Statistical Computation and Simulation*, 89(18), 3354–3376. Impact Factor 0.918.
66. **Haq, A.** & Khoo, M.B.C. (2019). A synthetic double sampling control chart for process mean using auxiliary information. *Quality and Reliability Engineering International*, 35(6), 1803–1825. Impact Factor 1.718.
65. Lim, A.J.X., Khoo, M.B.C., Yeong, W.C., & **Haq, A.** (2019). A run sum  $S$  chart with two sampling intervals. *International Journal of Industrial Engineering: Theory, Applications and Practice*, 26(4), 507–524. Impact Factor 0.460.
64. Abbasi, S., & **Haq, A.** (2019). Enhanced adaptive CUSUM charts for process mean. *Journal of Statistical Computation and Simulation*, 89(13), 2562–2582. Impact Factor 0.918.
63. **Haq, A.** & Bibi, L. (2019). A new dual CUSUM mean chart. *Quality and Reliability Engineering International*, 35(4), 1245–1262. Impact Factor 1.718.
62. **Haq, A.** (2019). A new nonparametric synthetic EWMA control chart for monitoring process mean. *Communications in Statistics - Simulation and Computation*, 48(6), 1665–1676. Impact Factor 0.651.
61. **Haq, A.** (2019). Weighted adaptive multivariate CUSUM charts with variable sampling intervals. *Journal of Statistical Computation and Simulation*, 89(3), 478–491. Impact Factor 0.918.
60. **Haq, A.** & Khoo, M.B.C. (2019). New adaptive EWMA control charts for monitoring univariate and multivariate coefficient of variation. *Computers & Industrial Engineering*, 131 (May), 28–40. Impact Factor 4.135.
59. Al-Omari, A.I., & **Haq, A.** (2019). A new sampling method for estimating the population mean. *Journal of Statistical Computation and Simulation*, 89(11), 1973–1985. Impact Factor 0.918.
58. **Haq, A.** & Khoo, M.B.C. (2019). An adaptive multivariate EWMA chart. *Computers & Industrial Engineering*, 127 (Jan), 549–557. Impact Factor 4.135.
57. **Haq, A.** & Khoo, M.B.C. (2019). Memory-type multivariate control charts with auxiliary information for process mean. *Quality and Reliability Engineering International*, 35(1), 192–203. Impact Factor 1.718.
56. **Haq, A.**, Abidin, Z.U., & Khoo, M.B.C. (2019). An enhanced EWMA- $t$  control chart for monitoring the process mean. *Communications in Statistics - Theory and Methods*, 48(6), 1333–1350. Impact Factor 0.612.
55. Chong, N.L., Khoo, M.B.C., **Haq, A.** & Castagliola, P. (2019). Hotelling's  $T^2$  control chart with fixed and variable sample sizes for monitoring short production runs. *Quality and Reliability Engineering International*, 35(1), 14–29. Impact Factor 1.718.
54. Abbasi, S., & **Haq, A.** (2019). Optimal CUSUM and adaptive CUSUM charts with auxiliary information for process mean. *Journal of Statistical Computation and Simulation*, 89(2), 337–361. Impact Factor 0.918.
53. Saha, S., Khoo, M.B.C., Lee, M.H., & **Haq, A.** (2019). A variable sample size and sampling interval control chart for monitoring the process mean by using auxiliary information. *Quality Technology & Quantitative Management*, 16(4), 389–406. Impact Factor 2.231.
52. **Haq, A.** & Khoo, M.B.C. (2019). A new nonparametric multivariate EWMA sign control chart for monitoring process dispersion. *Communications in Statistics - Theory and Methods*, 48(15), 3703–3716. Impact Factor 0.612.
51. **Haq, A.** (2018). A new adaptive EWMA control chart using auxiliary information for monitoring the process mean. *Communications in Statistics - Theory and Methods*, 47(19), 4840–4858. Impact Factor 0.424.
50. **Haq, A.** (2018). A new adaptive EWMA control chart for monitoring the process dispersion. *Quality and Reliability Engineering International*, 34(5), 846–857. Impact Factor 1.409.
49. Ali, R., & **Haq, A.** (2018). New GWMA-CUSUM control chart for monitoring the process dispersion. *Quality and Reliability Engineering International*, 34(6), 997–1028. Impact Factor 1.409.

48. **Haq, A.** (2018). Weighted adaptive multivariate CUSUM control charts. *Quality and Reliability Engineering International*, 34(5), 939–952. Impact Factor 1.409.
47. **Haq, A.**, Gulzar, R., & Khoo, M.B.C. (2018). An efficient adaptive EWMA control chart for monitoring the process mean. *Quality and Reliability Engineering International*, 34(4), 563–571. Impact Factor 1.409.
46. Ali, R., & **Haq, A.** (2018). A mixed GWMA-CUSUM control chart for monitoring the process mean. *Communications in Statistics - Theory and Methods*, 47(15), 3779–3801. Impact Factor 0.424.
45. **Haq, A.** & Munir, W. (2018). Improved CUSUM charts for monitoring process mean. *Journal of Statistical Computation and Simulation*, 88(9), 1684–1701. Impact Factor 0.767.
44. Awais, M., & **Haq, A.** (2018). An EWMA chart for monitoring process mean. *Journal of Statistical Computation and Simulation*, 88(5), 1003–1025. Impact Factor 0.767.
43. **Haq, A.** & Khoo, M.B.C. (2018). A new double sampling control chart for monitoring process mean using auxiliary information. *Journal of Statistical Computation and Simulation*, 88(5), 869–899. Impact Factor 0.767.
42. **Haq, A.** (2017). New EWMA control charts for monitoring process dispersion using auxiliary information. *Quality and Reliability Engineering International*, 33(8), 2597–2614. Impact Factor 1.366.
41. Lim, A.J.X., Khoo, M.B.C., Teoh, W.L., & **Haq, A.** (2017). Run sum chart for monitoring multivariate coefficient of variation. *Computers & Industrial Engineering*, 109 (July), 84–95. Impact Factor 3.195.
40. Munir, W., & **Haq, A.** (2017). New cumulative sum control charts for monitoring process variability. *Journal of Statistical Computation and Simulation*, 87(15), 2882–2899. Impact Factor 0.869.
39. Ali, R., & **Haq, A.** (2017). New memory-type dispersion control charts. *Quality and Reliability Engineering International*, 33(8), 2131–2149. Impact Factor 1.366.
38. **Haq, A.** (2017). A new maximum EWMA control chart for simultaneously monitoring process mean and dispersion using auxiliary information. *Quality and Reliability Engineering International*, 33(7), 1577–1587. Impact Factor 1.366.
37. **Haq, A.** (2017). New synthetic CUSUM and synthetic EWMA control charts for monitoring the process mean using auxiliary information. *Quality and Reliability Engineering International*, 33(7), 1549–1565. Impact Factor 1.366.
36. **Haq, A.** (2017). A new nonparametric EWMA control chart for monitoring process variability. *Quality and Reliability Engineering International*, 33(7), 1499–1512. Impact Factor 1.366.
35. **Haq, A.** (2017). Two-stage cluster sampling with hybrid ranked set sampling in the secondary sampling frame. *Communications in Statistics - Theory and Methods*, 46(17), 8450–8467. Impact Factor 0.353.
34. **Haq, A.** (2017). Estimation of the distribution function under hybrid ranked set sampling. *Journal of Statistical Computation and Simulation*, 87(2), 313–327. Impact Factor 0.869.
33. **Haq, A.**, Khan, M., & Hussain, Z. (2017). A new estimator of finite population mean based on the dual use of the auxiliary information. *Communications in Statistics - Theory and Methods*, 46(9), 4425–4426. Impact Factor 0.353.
32. **Haq, A.** & Khoo, M.B.C. (2016). A new synthetic control chart for monitoring process mean using auxiliary information. *Journal of Statistical Computation and Simulation*, 86(15), 3068–3092. Impact Factor 0.757.
31. Al-Omari, A.I., & **Haq, A.** (2016). Entropy estimation and goodness-of-fit tests for the inverse Gaussian and Laplace distributions using paired ranked set sampling. *Journal of Statistical Computation and Simulation*, 86(11), 2262–2272. Impact Factor 0.757.
30. You, J.W., Khoo, M.B.C., Castagliola, P., & **Haq, A.** (2016). Monitoring the coefficient of variation using the side sensitive group runs chart. *Quality and Reliability Engineering International*, 32(5), 1913–1927. Impact Factor 1.366.
29. **Haq, A.**, Brown, J., & Moltchanova, E. (2016). Improved best linear unbiased estimators for the simple linear regression model using double ranked set sampling schemes. *Communications in Statistics - Theory and Methods*, 45(12), 3541–3561. Impact Factor 0.311.

28. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2016). Paired double-ranked set sampling. *Communications in Statistics - Theory and Methods*, 45(10), 2873–2889. Impact Factor 0.311.
27. **Haq, A.**, Brown, J., & Moltchanova, E. (2016). Hybrid ranked set sampling scheme. *Journal of Statistical Computation and Simulation*, 86(1), 1–28. Impact Factor 0.757.
26. **Haq, A.**, Brown, J., & Moltchanova, E. (2016). A new synthetic exponentially weighted moving average control chart for monitoring process dispersion. *Quality and Reliability Engineering International*, 32(1), 241–256. Impact Factor 1.366.
25. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2016). Best linear unbiased and invariant estimation in location-scale families based on double ranked set sampling scheme. *Communications in Statistics - Theory and Methods*, 45(1), 25–48. Impact Factor 0.311.
24. **Haq, A.**, Brown, J., & Moltchanova, E. (2016). New synthetic EWMA and synthetic CUSUM control charts for monitoring the process mean. *Quality and Reliability Engineering International*, 32(1), 269–290. Impact Factor 1.366.
23. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). A new maximum exponentially weighted moving average control chart for monitoring process mean and dispersion. *Quality and Reliability Engineering International*, 31(8), 1587–1610. Impact Factor 1.457.
22. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). New synthetic control charts for monitoring process mean and process dispersion. *Quality and Reliability Engineering International*, 31(8), 1305–1325. Impact Factor 1.457.
21. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). A new exponentially weighted moving average control chart for monitoring the process mean. *Quality and Reliability Engineering International*, 31(8), 1623–1640. Impact Factor 1.457.
20. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). A new exponentially weighted moving average control chart for monitoring process dispersion. *Quality and Reliability Engineering International*, 31(8), 1337–1357. Impact Factor 1.457.
19. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). New exponentially weighted moving average control charts for monitoring process mean and process dispersion. *Quality and Reliability Engineering International*, 31(5), 877–901. Impact Factor 1.457.
18. **Haq, A.** & Al-Omari, A.I. (2015). A new Shewhart control chart for monitoring process mean based on partially ordered judgment subset sampling. *Quality and Quantity*, 49(3), 1185–1202. Impact Factor 0.867.
17. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2015). Effect of measurement error on exponentially weighted moving average control charts under ranked set sampling schemes. *Journal of Statistical Computation and Simulation*, 85(6), 1224–1246. Impact Factor 0.749.
16. **Haq, A.**, Brown, J., & Moltchanova, E. (2015). An improved maximum exponentially weighted moving control chart for monitoring process mean and variability. *Quality and Reliability Engineering International*, 31(2), 265–290. Impact Factor 1.457.
15. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2015). Improved exponentially weighted moving average control charts for monitoring process mean and dispersion. *Quality and Reliability Engineering International*, 31(2), 217–237. Impact Factor 1.457.
14. **Haq, A.** & Shabbir, J. (2014). Improved exponential type estimators of finite population mean under complete and partial auxiliary information. *Haceteppe Journal of Mathematics and Statistics*, 43(6), 1079–1093. Impact Factor 0.413.
13. **Haq, A.**, Brown, J., & Moltchanova, E. (2014). New exponentially weighted moving average control charts for monitoring process dispersion. *Quality and Reliability Engineering International*, 30(8), 1311–1332. Impact Factor 1.191.
12. **Haq, A.**, Brown, J., & Moltchanova, E. (2014). A new cumulative sum quality control scheme for monitoring the process mean. *Quality and Reliability Engineering International*, 30(8), 1165–1177. Impact Factor 1.191.

11. **Haq, A.**, Brown, J., & Moltchanova, E. (2014). Improved fast initial response features for exponentially weighted moving average and cumulative sum control charts. *Quality and Reliability Engineering International*, 30(5), 697–710. Impact Factor 1.191.
10. **Haq, A.** (2014). An improved mean deviation exponentially weighted moving average control chart to monitor process dispersion under ranked set sampling. *Journal of Statistical Computation and Simulation*, 84(9), 2011–2024. Impact Factor 0.635.
9. **Haq, A.** & Shabbir, J. (2014). An improved family of estimators of finite population mean based on the auxiliary attribute. *Applied Mathematics and Computation*, 230(1), 336–341. Impact Factor 1.551.
8. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2014). Mixed ranked set sampling design. *Journal of Applied Statistics*, 41(10), 2141–2156. Impact Factor 0.417.
7. **Haq, A.** & Shabbir, J. (2014). An improved estimator of finite population mean when using two auxiliary attributes. *Applied Mathematics and Computation*, 241(15), 14–24. Impact Factor 1.551.
6. **Haq, A.** (2013). A new hybrid exponentially weighted moving average control chart for monitoring process mean. *Quality and Reliability Engineering International*, 29(7), 1015–1025. Impact Factor 0.994.
5. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2013). Partial ranked set sampling design. *Environmetrics*, 24(3), 201–207. Impact Factor 1.486.
4. **Haq, A.** & Shabbir, J. (2013). Improved family of ratio estimators in simple and stratified random sampling. *Communications in Statistics - Theory and Methods*, 42(5), 782–799. Impact Factor 0.289.
3. **Haq, A.**, Shabbir, J., & Gupta, S. (2013). Improved exponential ratio type estimators in stratified sampling. *Pakistan Journal of Statistics*, 29(1), 13–31. Impact Factor 0.336.
2. Al-Omari, A.I., & **Haq, A.** (2012). Improved quality control charts for monitoring the process mean, using double-ranked set sampling methods. *Journal of Applied Statistics*, 39(4), 745–763. Impact Factor 0.449.
1. **Haq, A.** & Shabbir, J. (2010). A family of ratio estimators for population mean in extreme ranked set sampling using two auxiliary variables. *SORT*, 34(1), 45–66. Impact Factor 0.25.

### Non-ISI Research Publications

14. Al-Omari, A.I., & **Haq, A.** (2019). Novel entropy estimators of a continuous random variable. *International Journal of Modeling, Simulation, and Scientific Computing*, 10(2), 1950004, 19 pages.
13. Hussain, I., & **Haq, A.** (2019). A new family of estimators for population mean with dual use of the auxiliary information. *Journal of Statistical Theory and Practice*, 13:23.
12. **Haq, A.** & Shabbir, J. (2018). An improved class of estimators of finite population mean in simple random sampling using an auxiliary attribute. *Journal of Statistical Theory and Practice*, 12(2), 282–289.
11. Awais, M., & **Haq, A.** (2018). A new cumulative sum control chart for monitoring the process mean using varied L ranked set sampling. *Journal of Industrial and Production Engineering*, 35(2), 74–90.
10. **Haq, A.** & Al-Omari, A.I. (2016). Bayes estimation and prediction of a three component mixture of Rayleigh distribution under type-I censoring. *Investigación Operacional*, 37(1), 22–37.
9. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2015). Varied L ranked set sampling scheme. *Journal of Statistical Theory and Practice*, 9(4), 741–767.
8. Al-Omari, A.I., & **Haq, A.** (2014). Monte Carlo comparison of three tests of exponentiality based on the Kullback-Leibler information in ranked set sampling. *Journal of Statistics and Management Systems*, 17(5-6), 479–502.
7. **Haq, A.**, Brown, J., Moltchanova, E., & Al-Omari, A.I. (2014). Ordered double ranked set samples and applications to inference. *American Journal of Mathematical and Management Sciences*, 33(4), 239–260.
6. Shabbir, J., **Haq, A.** & Gupta, S. (2014). A new difference-cum-exponential type estimator of finite population mean in simple random sampling. *Revista Colombiana de Estadística*, 37(1), 197–209.
5. Al-Omari, A.I., & **Haq, A.** (2012). Goodness-of-fit testing for the inverse Gaussian distribution based on new entropy estimation using ranked set sampling and double ranked set sampling. *Environmental Systems Research*, September 1:8.

4. **Haq, A.** & Dey, S. (2011). Bayesian estimation of Erlang distribution under different prior distributions. *Journal of Reliability and Statistical Studies*, 4(1), 1–30.
3. **Haq, A.** (2009). New improved informative priors for variance of normal distribution. *INTERSTAT*, November.
2. **Haq, A.** & Aslam, M. (2009). On the double prior selection for the parameter of Poisson distribution. *INTERSTAT*, November.
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### Peer Review Activities

Computers & Industrial Engineering; Quality and Reliability Engineering International; Applied Stochastic Models in Business and Industry; Environmental and Ecological Statistics; Pharmaceutical Statistics; IEEE Access; Journal of Statistical Computation and Simulation; Quality Technology & Quantitative Management; Journal of Applied Statistics; Journal of Testing and Evaluation; Mathematical Methods in Applied Sciences; Communications in Statistics (Theory and Methods, Simulation and Computation); Scientia Iranica; PLOS ONE; Stat; Sociological Methods & Research; Mathematical Population Studies: An International Journal of Mathematical Demography; Journal of Probability and Statistics; Hacettepe Journal of Mathematics and Statistics; Journal of the Chinese Institute of Engineers; Journal of Industrial and Production Engineering; Electronic Journal of Applied Statistical Analysis; Pakistan Journal of Statistics; Computers, Materials & Continua; Computer Systems Science and Engineering; Journal of Modern Applied Statistical Methods.

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