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CURRICULUM VITAE TEMPLATE

Position/Designation: Professor of Statistics
Department: Mathematical and Physical Sciences
College: Arts and Sciences
University of Nizwa, Sultanate of Oman

Personal Information

Name: Amer Ibrahim Falah Al-Omari
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Academic Qualifications

Ph.D. Statistics, National University of Malaysia (UKM), Malaysia.
M.Sc. Statistics, Yarmouk University, Jordan.
B.Sc. Mathematics, Baghdad University, Iraq.

Teaching Activities, Current/Previous Experience

Lecturer of Statistics

Department of Mathematics, Faculty of Science, Al al-Bayt University, Mafraq, Jordan, 13/9/2009 - 21/11/2010.

Assistant Professor of Statistics

Department of Mathematics, Faculty of Science, Al al-Bayt University, Mafraq, Jordan, 22/11/2010 - 21/11/2013.

Associate Professor of Statistics

Department of Mathematics, Faculty of Science, Al al-Bayt University, Mafraq, Jordan, 22/11/2013 - 30/1/2018.

Visiting Professor

School of Mathematical Sciences, Universiti Sains Malaysia, Pinang, Malaysia, 26/7/2023-15/9/2023.

Professor of Statistics

Department of Mathematics Faculty of Science, Al al-Bayt University, Mafraq, Jordan, 31/1/2018 - Current.

Professor of Statistics

Mathematical and Physical Sciences, College: Arts and Sciences, University of Nizwa, Sultanate of Oman, 10/9/2025 - Current.

Research Activities
(includes but not limited to research interests, conference attendance, conference presentations and publications: refereed journal, articles, books, etc.)

Research Interests:
• Distribution Theory
• Missing Data
• Ranked Set Sampling
• Acceptance Sampling Plans

Conference Presentations

- Invited Speaker, Ranking Methodologies in Ranked Set Sampling. Ranked Set Sampling Symposiums, Translating the theory to application in agriculture and natural sciences. Plant Genomic Center, University of Adelaide, Adelaide, Australia, (27-29)/9/2018.

- On ratio-type estimators of the population mean using median ranked set sampling. Conference on Ordered Statistical Data and Its Applications (ODAS 2008), Aachen University, Germany, (7-8)/3/2008.

- New product-type estimators for the population mean using quartiles of the auxiliary variable. International Conference on Mathemat-ics, Statistics and Scientific Computing (ICMSSC 2009), Dubai, United Arab Emirates, (28-30)/1/2009

- Acceptance sampling plans based on truncated life tests for Garima distribution. The 1st AFU International Conference Toward Advanced Scientific Knowledge in Business Sciences (TASK 2017), Al-Falah University, Dubai, United Arab Emirates, 3-4/5/2017.

- Neew double stage Ranked Set Sampling variation for Estimating the Population Mean. The 4th
- AFU International Conference-Toward Advanced Scientific Knowledge-TASK2021, (TASK 2021), Al-Falah University, Dubai, United Arab Emirates, 19-20/5/2021.

- Induced Sushila Distribution: Statistical Properties and Applications. 7th International Conference on Mathematical Advances and Applications (ICOMAA-2024), Yildiz Technical University, Istanbul, Turkey, 8-11/5/2024.

Conference Attendance:

- International Conference on Sciences (ICS-AABU-UKM-2012), Faculty of Science, Al al-Bayt University, Mafraq, Jordan, (20-22)/11/2012. (Attendance).

- Estimation of standard deviation of normal distribution using moving extreme ranked set sam-
- pling. International Conference on Mathematics, Statistics and Scientific Computing (ICMSSC 2009), Dubai, United Arab Emirates, (28-30)/1/2009.

- The First International Arab Conference on Quality Assurance in Higher Education (IACQA' 2011). Zarqa University, Jordan, (10-12)/5/2011.

- Inference of adaptive methods for multi-stage skew-t survey data. The Second Jordanian Conference for Statistics and its Applications, Department of Statistics, Yarmouk University,
- Irbid, Jordan, (2-3)/12/2015.

Publications:

1. Al-Saleh, M.F. and **Al-Omari, A.I**. (2002). Multistage ranked set sampling. Journal of Statistical Planning and Inference, 102: 273-286.

2. Jemain, A.A. and **Al-Omari, A.I**. (2006). Double percentile ranked set samples for estimating the population mean. Advances and Applications in Statistics, 6(3): 261-276.

3. Jemain, A.A., and **Al-Omari, A.I**. (2006). Double quartile ranked set samples. Pakistan Journal of Statistics, 22(3): 217-228.

4. Jemain, A.A. and **Al-Omari, A.I**. (2006). Multistage median ranked set samples for estimating the population mean. Pakistan Journal of Statistics, 22(3): 195-207.

5. Jemain, A.A. and **Al-Omari, A.I**. (2007). Multistage percentile ranked set samples. Advances and Applications in Statistics, 7(1): 127-139.

6. Jemain, A.A., and **Al-Omari, A.I**. (2007). Multistage quartile ranked set samples. Pakistan Journal of Statistics, 23(1): 11-22.

7. Jemain, A.A., **Al-Omari, A.I**. and Ibrahim, K. (2007). Multistage median ranked set sampling for estimating the population median. Journal of Mathematics and Statistics, 3(2): 58-64.

8. Jemain, A.A., **Al-Omari, A.I**. and Ibrahim, K. (2007). Multistage extreme ranked set samples for estimating the population mean. Journal of Statistical Theory and Applications, 6(4): 456-471. Special issue of JSTA in Ranked set sampling.

9. Jemain, A.A., **Al-Omari, A.I**. and Ibrahim, K. (2008). Some variations of ranked set sampling. Electronic Journal of Applied Statistical Analysis, (1): 1-15.

10. Jemain, A.A., **Al-Omari, A.I**., and Ibrahim, K. (2008). Balanced groups ranked set sampling for estimating the population median. Journal of Applied Statistical Sciences, 17(1): 39-46.

• After Ph.D. Dissertation

11. Jemain, A.A., **Al-Omari, A.I**., and Ibrahim, K. (2008). Two-stage ranked set sampling for estimating the population median. Sains Malaysiana, 37(1): 95-99.

12. **Al-Omari, A.I**., and Jaber, K. (2008). Percentile double ranked set sampling. Journal of Mathematics and Statistics, 4(1): 60-64.

13. Jemain, A.A., **Al-Omari, A.I**. and Ibrahim, K. (2008). Modified ratio estimator for the population mean using double median ranked set sampling. Pakistan Journal of Statistics, 24(3): 217-226.

14. **Al-Omari, A.I**., Jaber, K. and Ibrahim, A. (2008). Modified ratio-type estimators of the mean using extreme ranked set sampling, Journal of Mathematics and Statistics, 4(3): 150-155.

15. Al-Hadhrami, S., **Al-Omari, A.I**. and Al-Saleh, M.F. (2009). Estimation of standard deviation of normal distribution using moving extreme ranked set sampling. Proceedings of World Academy of Science, Engineering and Technology), Volume 37: 988-993.

16. **Al-Omari, A.I**. (2009). New product-type estimators for the population mean using quartiles of the auxiliary variable. Proceedings of World Academy of Science, Engineering and Technology, Volume 37: 582-586.

17. **Al-Omari, A.I**., Ibrahim, K. and Jemain, A.A. (2009). New ratio estimators of the mean using simple random sampling and ranked set sampling methods. Revista Investigacion Operacional, 30(2): 97-108.

18. **Al-Omari, A.I**. and Al-Saleh, M.F. (2009). Quartile double ranked set sampling for estimating the population mean. Economic Quality Control, International Journal for Quality and Reliability, 24(2): 243-253.

19. **Al-Omari, A.I**., Ibrahim, K., Jemain, A.A. and Al-Hadhrami, S. (2009). Multistage balanced groups ranked set samples for estimating the population median. Statistics in Transition-new series. An International Journal of the Polish Statistical Association, 10(2): 223-233.

20. Al-Hadhrami, S.A. and **Al-Omari, A.I**. (2009). Bayesian inference on the variance of normal distribution using moving extremes ranked set sampling. Journal of Modern Applied Statistical Methods, 8(1): 227-235.

21. **Al-Omari, A.I**. and Jaber, K. (2010). Improvement in estimating the population mean in double extreme ranked set sampling. International Mathematical Forum, 5(26): 1265-1275.

22. **Al-Omari, A.I**. (2010). Estimation of the population median of symmetric and asymmetric distributions using double robust extreme ranked set sampling. Revista Investigacion Operacional, 31(3): 200-208.

23. Jaber, K., **Al-Omari, A.I**. and Ibrahim, A. (2010). An Improvement in estimating the population mean by using correlation coefficient in product method of estimation. Far East Journal of Theoretical Statistics, 32(1): 35-46.

24. Ibrahim, K., Syam, M. and **Al-Omari, A.I**. (2010). Estimating the population mean using stratified median ranked set sampling. Applied Mathematical Sciences, 4(47): 2341 - 2354.

25. **Al-Omari, A.I**. and Al-Saleh, M.F. (2010). Improvement in estimating the population mean using two-stage balanced groups ranked set sampling. Metron-International Journal of Statistics, LXVIII(2): 185-196.

26. Shadid, M.R., Raqab, M.Z. and **Al-Omari, A.I**. (2011). Modified BLUEs and BLIEs of the location and scale parameters and the population mean using ranked set sampling. Journal of Statistical Computation and Simulation, 81(3): 261-274.

27. Bouza, C.N. and **Al-Omari, A.I**. (2011). Ranked set estimation with imputation of the missing observations: The median estimator. Revista Investigacion Operacional, 32(1): 30-37.

28. **Al-Omari, A.I**. (2011). Estimation of mean based on modified robust extreme ranked set sampling. Journal of Statistical Computation and Simulation, 81(8): 1055-1066.

29. **Al-Omari, A.I**. and Al-Nasser, A.D. (2011). Statistical quality control limits for the sample mean chart using robust extreme ranked set sampling. Economic Quality Control, International Journal for Quality and Reliability, 26: 73-89.

30. **Al-Omari, A.I**., Syam, M. and Ibrahim, K. (2011). Investigating the use of stratified percentile ranked set sampling method for estimating the population mean. Proyecciones Journal of Mathematics, 30(3): 351-368.

31. **Al-Omari, A.I**. and Al-Hadhrami, S.A. (2011). On maximum likelihood estimators of the parameters of a modified Weibull distribution using extreme ranked set sampling. Journal of Modern Applied Statistical Methods, 10(2): 607-617.

32. Al-Hadhrami, S.A. and **Al-Omari, A.I**. (2012). Bayes estimation of the mean of normal distribution using moving extreme ranked set sampling. Pakistan Journal of Statistics and Operation Research , VIII(1): 21-30.

33. **Al-Omari, A.I**. and 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.

34. Bouza, C.N. and **Al-Omari, A.I**. (2012). Estimating the population mean in the case of missing data using simple random sampling. Statistics: A Journal of Theoretical and Applied Statistics, 46(2): 279-290.

35. Syam, M. and Ibrahim, K. and **Al-Omari, A.I**. (2012). Estimating the population mean using stratified double ranked set samples. Proceeding of the Fourth International Conference on Mathematical Sciences-ICM 2012, Department of Mathematics, United Arab Emirates University, UAE, (11-14)/3/2012, 99-104.

36. **Al-Omari, A.I**. and Al-Nasser, A.D. (2012). On the population median estimation using robust extreme ranked set sampling. Monte Carlo Methods and Applications, 18(2): 109-118.

37. Syam, M., Ibrahim, K. and **Al-Omari, A.I**. (2012). The efficiency of stratified quartile ranked set sample in estimating the population mean. Tamsui Oxford Journal of Information and Mathematical Sciences, 28(2): 175-190.

38. **Al-Omari, A.I**. (2012). Ratio estimation of population mean using auxiliary information in simple random sampling and median ranked set sampling. Statistics and Probability Letters, 82(11): 1883-1990.

39. Syam, M., Ibrahim, K. and **Al-Omari, A.I**. (2012). Estimating the population mean using stratified extreme ranked set sample. Proceeding of the 12th Islamic Countries Conference on Statistical Sciences (ICCS-12), Department of Mathematics, Statistics and Physics, Qatar University, Doha, Qatar, (19-22)/12/2012, Vol. 23 647-654.

40. **Al-Omari, A.I**., and Haq, A. (2012). Goodness-of-fit testing based on new entropy estimator using ranked set sampling and double ranked set sampling for the inverse Gaussian distribution.Environmental Systems Research, 1:8.

41. Syam, M., Ibrahim, K. and **Al-Omari, A.I**. (2013). The efficiency of stratified double percentile ranked set sample for estimating the population mean. Far East Journal of Mathematical Sciences, 73(1): 157-177.

42. **Al-Omari, A.I**., Bouza, C.N. and Herrera, C. (2013). Imputation methods of missing data for estimating the population mean using simple random sampling with known correlation coefficient. Quality and Quantity, 47: 353-365.

43. Al-Nasser, A.D., **Al-Omari, A.I**. and Al-Rawwash, M. (2013). Monitoring the process mean based on quality control charts using on folded ranked set sampling. Pakistan Journal of Statistics and Operation Research, 9(1): 79-91.

44. Haq, A., Brown, J., Moltchanova, E. and **Al-Omari, A.I**. (2013). Partial ranked set sampling design. Environmetrics, 24(3): 201-207.

45. **Al-Omari, A.I**. and Raqab, M.Z. (2013). Estimation of the population mean and median using truncation based ranked set samples. Journal of Statistical Computation and Simulation, 83(8): 1453-1471.

46. Al-Nasser, A.D. and **Al-Omari, A.I**. (2013). Acceptance sampling plan based on truncated life tests for exponentiated Frechet distribution. Journal of Statistics and Management Systems, 16(1): 13-24.

47. Syam, M., Ibrahim, K. and **Al-Omari, A.I**. (2013). Stratified double quartile ranked set samples. Journal of Mathematics and System Science, 4: 49-55.

48. **Al-Omari, A.I**. (2014). Estimation of entropy using random sampling. Journal of Computational and Applied Mathematics, 261: 95-102.

49. Abushrida, R.M., Al-Zoubi, L.M. and **Al-Omari, A.I**. (2014). Robustness of adaptive methods for balanced non-normal data: skewed normal data as an example. Revista Investigacion Operacional, 35(2): 157-172.

50. Haq, A., Brown, J., Moltchanova, E. and **Al-Omari, A.I**. (2014). Mixed ranked set sampling design. Journal of Applied Statistics, 41(10): 2141-2156.

51. **Al-Omari, A.I**. and Gupta, S. (2014). Double quartile ranked set sampling for estimating population ratio using auxiliary information. Pakistan Journal of Statistics, 30(4): 513-535.

52. **Al-Omari, A.I**. (2014). Acceptance sampling plan based on truncated life tests for three parameter Kappa distribution. Economic Quality Control, International Journal for Quality and Reliability, 29(1): 53-62.

53. Haq, A., Brown, J., Moltchanova, E. and **Al-Omari, A.I**. (2014). Ordered double ranked set samples and applications to inference. American Journal of Mathematical and Management Sciences, 33: 239-260.

54. **Al-Omari, A.I**., and Bouza, C.N. (2014). Review of ranked set sampling: Modifications and applications. Revista Investigacion Operacional, 35(3): 215-240.

55. Al-Hadhrami, S. and **Al-Omari, A.I**. (2014). Bayesian estimation of the mean of exponential distribution using moving extremes ranked set sampling. Journal of Statistics and Management Systems, 17(4): 365-379.

56. Al-Rawwash, M., Al-Nasser, A.D. and **Al-Omari, A.I**. (2014). Quality control charts using different ranked set sampling schemes. Procceding of the 16th International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS 14), World Scientific and Engineering, Academic and Society, Lisbon, Portugal, (30/10-1/11)/2014.

57. **Al-Omari, A.I**. and Haq, A. (2014). Monte Carlo comparison of three tests of exponentiality based on Kullback-Leibler information in ranked set sampling. Journal of Statistics and Management Systems, 17(5,6): 479-502.

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185. Alomani, G.A., Hassan, A.S., **Al-Omari, A.I**., Almetwally, E.M. (2024). Different estimation techniques and data analysis for constant-partially accelerated life tests for power half-logistic distribution. Scientific Reports, 14, 20865.

186. **Al-Omari, A.I**. and Ismail, M.T. (2024). Group acceptance sampling plans based on truncated life tests for Gamma Lindley distribution with a real data application. Lobachevskii Journal of Mathematics, 45(2): 578-590.

187. Abdallah, M.S. and **Al-Omari, A.I**. (2024). An efficient CDF estimator based on dual-rank ranked set sampling with an application to body mass index data. Journal of the Indian Society for Probability and Statistics, 25: 67-84.

188. **Al-Omari, A.I**. and Alomani, G.A. (2024). Acceptance sampling plans based on percentiles for extended generalized exponential distribution with real data application. Journal of Radiation Research and Applied Sciences, 17 (4), 101081.

189. Irshad, M.R., Aswathy, S., Maya, R., **Al-Omari, A.I**. and Alomani, G.A. (2024). A flexible model for bounded data with bathtub shaped hazard rate function and applications. AIMS Mathematics, 9(9): 24810-24831.

190. Aldrabseh, M., Ismail, M.T. and **Al-Omari, A.I**. (2024). Double except extreme ranked set sampling for estimating population mean. Advanced Mathematical Models & Applications, 9(3): 415-430.

191. **Al-Omari, A.I**. and Ismail, M.T. (2024). Gamma Lindley distribution in acceptance sampling plans in terms of truncated life tests with an application to industrial data. Pakistan Journal of Statistics and Operation Research, 20(3): 455-469.

192. Arun, S., Irshad, M.R., Maya, R., **Al-Omari, A.I**. and Alshqaq, S. (2025). Parameter estimation in the Farlie-Gumbel-Morgenstern bivariate Bilal distribution via multistage ranked set sampling. AIMS Mathematics, 10(2): 2083–2097.

193. Alsultan, R. and **Al-Omari, A.I**. (2025). Neutrosophic Quasi-XLindley distribution with applications of COVID-19 data. Neutrosophic Sets and Systems, 82: 530-541.

194. Ismail, M.T., **Al-Omari, A.I**., Alanzi, A.R., and Alshqaq, S.S. (2024). Double acceptance sampling plans for gamma Lindley distribution based on truncated lifetime tests. Advanced Mathematical Models & Applications, 10(1): 174-183.

195. Abu Thaimer, M., and **Al-Omari, A.I**. (2025). Weighted gamma Lindley distribution: statistical Properties, reliability analysis, with modeling of covid-19 data. Journal of Applied Probability and Statistics , 20(1): 1-32.

196. Kharvi, S., Irshad, M.R., Maya, R., **Al-Omari, A.I**. and Alsultan, R. (2025). Power length-biased new XLindley distribution: Properties and modeling of real data. Mathematics, 13(9), 1394.

197. Benchiha, S.A., **Al-Omari, A.I**., and Alomani, G.A. (2025). Enhanced estimation of the unit Lindley distribution parameter via ranked set sampling with real-data application. Mathematics, 13(10), 1645.

198. **Al-Omari, A.I**., and Alsultan, R. (2025). Developed acceptance sampling plans for the Shanker distribution based on truncated life tests. International Journal of Neutrosophic Science, 26(3): 287-301.

199. Panta, C., **Al-Omari, A.I**., and Volodin, A. (2025). Induced Bilal distribution: statistical properties with applications to model precipitation and vinyl chloride data. Bangmod International Journal of Mathematical and Computational Science, 11: 206-227.

200. Alanzi, A.R., Irshad, M.R., Johny, M., **Al-Omari, A.I**., and Alrweili, H. (2025). Neutrosophic Poisson moment exponential distribution: Properties and applications. Maejo International Journal of Science and Technology, 19(02), 133-149.

201. Kumar, A., Bhushan, S., Pokhrel, R., **Al-Omari, A.I**., Alanzi, A.R.A., and Alshqaq, S.S. (2025). Imputation of missing data for domain mean estimation using simple random sampling. Kuwait Journal of Science, 52: 100461.

202. **Al-Omari, A.I**., Benchiha, S.A., and Alomani, G.A. (2025). Parameter estimation for the transmuted inverse Rayleigh distribution using ranked set sampling: Applications and analysis. AIMS Mathematics, 10(7): 16432-16459.

203. **Al-Omari, A.I**., Tripathi, H., Almetwally, E.M., and and Hanandeh, A.A. (2025). Reliability assessment through group acceptance sampling under the Darna distribution. AIMS Mathematics, 10(8): 19033-19057.

Faculty Administrative Experience

- Director of Quality Assurance and Planning Department, Al al-Bayt University, Mafraq, Jordan, 20/10/2010 - 4/9/2012.

- Vice Dean of Deanship of Scientific Research, Al al-Bayt University, Mafraq, Jordan, 14/9/2014 - 1/9/2018.
- Dean of Deanship of Scientific Research, Al al-Bayt University, Mafraq, Jordan, 2/9/2018 - 1/9/2020.

Community Services

Consultancy

Membership in Professional Bodies

Awards and Recognitions