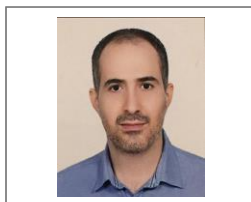


## CURRICULUM VITAE TEMPLATE



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

### Personal Information

Name: Ashkan Khalifeh  
 Marital Status: Married  
 Email Address: [a.khalifeh@unizwa.edu.om](mailto:a.khalifeh@unizwa.edu.om)  
 Contact Numbers: (+968) 98229028

### Academic Qualifications

- Ph.D., (Statistics) Yazd University, Yazd, Iran 2014 – 2019  
 Thesis Title: New Approaches for Estimating Reliability Parameter under Stress-Strength Model
- M.Sc., (Mathematical Statistics) University of Isfahan, Isfahan, Iran, 2012 – 2014  
 Dissertation Title: Multivariate finite mixture distributions with skew-t components
- B.Sc., (Statistics) University of Isfahan, Isfahan, Iran 2008 – 2012  
 Dissertation Title: Generalized linear model using MATLAB

### Teaching Activities, Current/Previous Experience

Extensive teaching background in statistics, covering both theoretical and applied aspects across various academic institutions.

Courses Taught:

- Introduction to statistics
- Principles of Probability
- Mathematical Statistics
- Statistical Methods
- Statistical Inference
- Sampling Techniques
- Applied Statistics
- Regression Models
- Generalized Linear Models (GLM)
- Bayesian Analysis
- Reliability Analysis
- Statistical Computing & Software

## Research Activities

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

### Research Interests:

Focused on both theoretical advancements and practical applications, the research interests span a wide array of statistical domains:

- Statistical Learning & Explainable AI (XAI):
- Sequential Analysis
- Distribution Theory
- Reliability & Stress-Strength Models
- Numerical Methods

These research interests aim to advance both theoretical knowledge and practical solutions in various fields, including statistics, engineering, bioinformatics, and data science.

### Publications:

Medina-Ortiz, D., **Khalifeh, A.**, Anvari-Kazemabad, H., Davari D.M. (bioRxiv 2024) Interpretable and explainable predictive machine learning models for data-driven protein engineering. bioRxiv 2024.02.18.580860.

Heydari, M., **Khalifeh, A.**, Rathour L. (2023) A simple and efficient preprocessing step for convex hull problem. Discrete Mathematics, Algorithms and Applications, DOI: <https://doi.org/10.1142/S179383092350091X>.

Mahmoudi, E., Nemati, Z., **Khalifeh, A.** (2023) Two-stage estimation of the combination of location and scale parameter of the exponential distribution under the constraint of bounded risk per unit cost index. Sequential Analysis, 42:3, 211-227, DOI: <https://doi.org/10.1080/07474946.2023.2201607>.

Al-Hemyari, A.Z., **Khalifeh, A.** (2023) On shrunken estimators for the ratio of scale parameters in the exponential two-sample problem. International Journal of Mathematical Modelling and Numerical Optimisation. <https://doi.org/10.1504/IJMMNO.2023.132291>.

Mahmoudi, E., Nemati, Z., **Khalifeh, A.** (2022). Bounded risk per unit cost index constraint for sequential estimation of the mean in a two-parameter exponential distribution, Sequential Analysis, <https://doi.org/10.1080/07474946.2022.2074453>.

**Khalifeh, A.**, Mahmoudi, E. and Chaturvedi, A. (2020). Sequential fixed-accuracy confidence intervals for the stress–strength reliability parameter for the exponential distribution: two-stage sampling procedure. Computational Statistics, DOI: <https://doi.org/10.1007/s00180-020-00957-5>.

Nekoukhou, V., **Khalifeh, A.**, Bidram, H. (2020). Univariate and Bivariate Extensions of the Generalized Exponential Distributions. Mathematica Slovaca. <https://doi.org/10.1515/ms-2021-0073>.

Nekoukhou, V., **Khalifeh, A.**, Bidram, H. (2020). A Bivariate Discrete Inverse Resilience Family of Distributions with Resilience Marginals. Journal of Applied Statistics.

<https://doi.org/10.1080/02664763.2020.1755618>.

Mahmoudi, E., **Khalifeh, A.**, and Nekoukhou, V. (2019) Minimum risk sequential point estimation of the stress-strength reliability parameter for exponential distribution, Sequential Analysis, DOI: <https://doi.org/10.1080/07474946.2019.1649347>.

Mahmoudi, E., Roughani, G., **Khalifeh, A.** (2019). Bounded Risk Estimation of the Gamma Scale Parameter in a Purely Sequential Sampling Procedure. Journal of Statistical Theory and Applications, DOI: <https://doi.org/10.2991/jsta.d.190818.005>

**Khalifeh, A.**, Mahmoudi, E., Dolati, A. (2019). Sequential-based approach for estimating the stressstrength reliability parameter for exponential distribution. Journal of The Iranian Statistical Society. <http://dx.doi.org/10.29252/jirss.19.1.85>.

Mahmoudi, H., Mahmoodian, E., and **Khalifeh, A.** (2018) Bivariate normal-power series class of distributions: model, properties and applications. Electronic Journal of Applied statistical Analysis, DOI: <https://doi.org/10.1285/i20705948v11n2p546>.

Lalehzari, R., Mahmoudi, E., and **Khalifeh, A.** (2017). Sequential fixed-width confidence interval for the rth power of the exponential scale parameter: Two-stage and sequential sampling procedures. Sequential Analysis, DOI: <https://doi.org/10.1080/07474946.2018.1548841>

Nekoukhou, V., **Khalifeh, A.**, Mahmoudi, A. (2019- Text in Persian) Bivariate Rayleigh-geometric distribution. JSS. 2020; 13 (2) :539-555, DOI: <http://dx.doi.org/10.29252/jss.13.2.53>

**Ph.D. Thesis Advisor:**

Sequential Point Estimation for the Linear Combination of Location and Scale Parameters of the Exponential Distribution. Yazd university, Yazd, Iran, 2023 (Zahra Nemati).

**Faculty Administrative Experience**

**Community Services**

**Consultancy**

**Membership in Professional Bodies**

Permanent member of the Iranian Statistical Society

**Awards and Recognitions**

Ranked 27th Place in Nationwide Statistics M.Sc. Entrance Examination. (2012).

Ranked 64th Place in Nationwide Statistics Ph.D. Entrance Examination (2014)