

## CURRICULUM VITAE

### PERSONAL DATA

|                    |                                 |
|--------------------|---------------------------------|
| <b>Name</b>        | NAIF MOHAMMED AYEDH ALOTAIBI    |
| <b>Nationality</b> | SAUDI                           |
| <b>Position</b>    | Dean of the College of Sciences |
| <b>E-Mail</b>      | NMAALOTAIBI@IMAMU.EDU.SA        |
| <b>Phone</b>       | +966504171026                   |

### EDUCATION

| Year | Academic Degree                   | Institution                                   |
|------|-----------------------------------|---|
| 2018 | PhD in Mathematics and Statistics | University of Salford in UK                   |
| 2009 | Masters of Science in Statistics  | King Saud University in SA                    |
| 2003 | Bachelor of Mathematics           | Teachers College - King Saud University in SA |

### WORK EXPERIENCE

| Period                          | Position  | Address   |
|---------------------------------|---|---|
| From 23/12/1441H Until now      | Dean  | College of Sciences - Imam Mohammad Ibn Saud Islamic University |
| From 08/02/1440H to 23/12/1441H | Vice Dean of the College of Science for Educational Affairs         | College of Sciences - Imam Mohammad Ibn Saud Islamic University |
| From 29/02/1440H to 08/04/1441H | General Supervisor of the Studies and Information Center            | Imam Mohammad Ibn Saud Islamic University                       |
| From 28/08/1443H Until now      | Associate Professor in the Department of Mathematics and Statistics | College of Sciences - Imam Mohammad Ibn Saud Islamic University |
| From 1439H to 1443H             | Assistant Professor in the Department of Mathematics and Statistics | College of Sciences - Imam Mohammad Ibn Saud Islamic University |
| From 1431H to 1439H             | Lecturer in the Department of Mathematics and Statistics            | College of Sciences - Imam Mohammad Ibn Saud Islamic University |
| From 1429H to 1431H             | Lecturer in Mathematics Department                                  | Teachers College - Riyadh                                       |
| From 1424H to 1429H             | Assistant Teacher in Mathematics Department                         | Teachers College - Riyadh                                       |

## RESEARCH INTERESTS

**Mathematical Statistics**

**Applied Statistics**

**Reliability Theory**

## PUBLICATIONS

1. Abdallah, M. S., Al-Omari, A. I., Alotaibi, N., Alomani, G. A., & Al-Moisheer, A. S. (2022). Estimation of distribution function using L ranked set sampling and robust extreme ranked set sampling with application to reliability. *Computational Statistics*, 1-30.
2. Alyami, S. A., Elbatal, I., Alotaibi, N., Almetwally, E. M., Okasha, H. M., & Elgarhy, M. (2022). Topp–Leone Modified Weibull Model: Theory and Applications to Medical and Engineering Data. *Applied Sciences*, 12(20), 10431.
3. Alotaibi, N., Elbatal, I., Almetwally, E. M., Alyami, S. A., Al-Moisheer, A. S., & Elgarhy, M. (2022). Bivariate step-stress accelerated life tests for the Kavya–Manoharan exponentiated Weibull model under progressive censoring with applications. *Symmetry*, 14(9), 1791.
4. Alyami, S. A., Elgarhy, M., Elbatal, I., Almetwally, E. M., Alotaibi, N., & El-Saeed, A. R. (2022). Fréchet Binomial Distribution: Statistical Properties, Acceptance Sampling Plan, Statistical Inference and Applications to Lifetime Data. *Axioms*, 11(8), 389.
5. Alotaibi, N., Hashem, A. F., Elbatal, I., Alyami, S. A., Al-Moisheer, A. S., & Elgarhy, M. (2022). Inference for a Kavya–Manoharan Inverse Length Biased Exponential Distribution under Progressive-Stress Model Based on Progressive Type-II Censoring. *Entropy*, 24(8), 1033.
6. Elbatal, I., Khan, S., Hussain, T., Elgarhy, M., Alotaibi, N., Semary, H. E., & Abdelwahab, M. M. (2022). A New Family of Lifetime Models: Theoretical Developments with Applications in Biomedical and Environmental Data. *Axioms*, 11(8), 361.
7. Alyami, S. A., Elbatal, I., Alotaibi, N., Almetwally, E. M., & Elgarhy, M. (2022). Modeling to Factor Productivity of the United Kingdom Food Chain: Using a New Lifetime-Generated Family of Distributions. *Sustainability*, 14(14), 8942.
8. Al-Dayel, I., Alshahrani, M. N., Elbatal, I., Alotaibi, N., Shawki, A. W., & Elgarhy, M. (2022). Statistical Analysis of COVID-19 Data for Three Different Regions in the Kingdom of Saudi Arabia: Using a New Two-Parameter Statistical Model. *Computational and Mathematical Methods in Medicine*, 2022.
9. Alyami, S. A., Babu, M. G., Elbatal, I., Alotaibi, N., & Elgarhy, M. (2022). Type II Half-Logistic Odd Fréchet Class of Distributions: Statistical Theory and Applications. *Symmetry*, 14(6), 1222.
10. Alotaibi, N., Elbatal, I., Almetwally, E. M., Alyami, S. A., Al-Moisheer, A. S., & Elgarhy, M. (2022). Truncated Cauchy power Weibull-G class of distributions: Bayesian and non-Bayesian inference modelling for COVID-19 and carbon fiber data. *Mathematics*, 10(9), 1565.
11. Shafiq, A., Sindhu, T. N., & Alotaibi, N. (2022). A novel extended model with versatile shaped failure rate: Statistical inference with Covid-19 applications. *Results in Physics*, 105398.
12. Elbatal, I., Alotaibi, N., Almetwally, E. M., Alyami, S. A., & Elgarhy, M. (2022). On Odd Perks-G Class of Distributions: Properties, Regression Model, Discretization, Bayesian and Non-Bayesian Estimation, and Applications. *Symmetry*, 14(5), 883.
13. Elbatal, I., Alotaibi, N., Alyami, S. A., Elgarhy, M., & El-Saeed, A. R. (2022). Bayesian and non-Bayesian estimation of the Nadarajah–Haghighi distribution: using progressive Type-1 censoring scheme. *Mathematics*, 10(5), 760.
14. Sindhu, T. N., Hussain, Z., Alotaibi, N., & Muhammad, T. (2022). Estimation method of mixture distribution and modeling of COVID-19 pandemic. *AIMS Mathematics*, 7(6), 9926-9956.
15. Alotaibi, N., Elbatal, I., Malyk, I. V., & Elgarhy, M. (2022). A NEW COMPOUND LIFETIME MODEL WITH MEDICAL APPLICATIONS.
16. Scarf, P., Khare, A., & Alotaibi, N. (2022). On skill and chance in sport. *IMA Journal of Management Mathematics*, 33(1), 53-73.
17. Al-Omari, A. I., Hassan, A. S., Alotaibi, N., Shrahili, M., & Nagy, H. F. (2021). Reliability Estimation of Inverse Lomax Distribution Using Extreme Ranked Set Sampling. *Advances in Mathematical Physics*, 2021.
18. Elbatal, I., & Alotaibi, N. (2021). Modelling to Engineering Data Using a New Class of Continuous Models. *Journal of Function Spaces*, 2021.
19. Shrahili, M., Al-Omari, A. I., & Alotaibi, N. (2021). Acceptance Sampling Plans from Life Tests Based on Percentiles of New Weibull–Pareto

- Distribution with Application to Breaking Stress of Carbon Fibers Data. *Processes*, 9(11), 2041.
20. Alotaibi, N. (2021). Statistical and deterministic analysis of covid-19 spread in Saudi Arabia. *Results in Physics*, 28, 104578.
  21. Shaukat, M. H., Alotaibi, N., Hussain, I., & Shrahili, M. (2021). The Analysis of the Incidence Rate of the COVID-19 Pandemic Based on Segmented Regression for Kuwait and Saudi Arabia. *Mathematical Problems in Engineering*, 2021.
  22. Alotaibi, N. (2021). A new lifetime distribution: properties, copulas, applications, and different classical estimation methods. *Complexity*, 2021.
  23. Benchiha, S., Al-Omari, A. I., Alotaibi, N., & Shrahili, M. (2021). Weighted generalized quasi lindley distribution: Different methods of estimation, applications for covid-19 and engineering data. *AIMS Math*, 6, 11850-11878.
  24. Shrahili, M., Alotaibi, N., Kumar, D., & Alyami, S. A. (2020). Inference for the two-parameter reduced Kies distribution under progressive type-II censoring. *Mathematics*, 8(11), 1997.
  25. Alotaibi, N. M., Cavalcante, C. A. V., Lopes, R. S., & Scarf, P. A. (2020). Preventive replacement with defaulting. *IMA Journal of Management Mathematics*, 31(4), 491-504.
  26. Shrahili, M., Alotaibi, N., Kumar, D., & Shafay, A. R. (2020). Inference on exponentiated power Lindley distribution based on order statistics with application. *Complexity*, 2020.
  27. Shrahili, M., & Alotaibi, N. (2020). A New Parametric Life Family of Distributions: Properties, Copula and Modeling Failure and Service Times. *Symmetry*, 12(9), 1462.
  28. Alotaibi, N., & Malyk, I. V. (2020). A Generalization of Binomial Exponential-2 Distribution: Copula, Properties and Applications. *Symmetry*, 12(8), 1338.
  29. Nafisah, I., Shrahili, M., Alotaibi, N., & Scarf, P. (2019). Virtual series-system models of imperfect repair. *Reliability Engineering & System Safety*, 188, 604-613.
  30. Scarf, P., Shrahili, M., Alotaibi, N., Jobson, S., & Passfield, L. (2019). Modelling the effect of training on performance in road cycling: estimation of the Banister model parameters using field data. *arXiv preprint arXiv:1902.02061*.
  31. Alotaibi, N. M. (2017). Statistical modelling of training and performance using power output and heart rate data collected in the field. University of Salford (United Kingdom).