

Dr. Ahmed Z. Afify,

Curriculum vitae



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Google Scholar

<https://scholar.google.com.eg/citations?user=BYvBkL0AAAAJ&hl=en>

H index **39** (Based on **Google Scholar**)

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=56469107500>

H index **34** (Based on **Scopus**)

Publons

<https://publons.com/researcher/1242561/ahmed-z-afify/>

H index **25** (Based on **Web of Science**)

Research Gate

https://www.researchgate.net/profile/Ahmed_Afify10

H index **39** (Based on **Research Gate**)

Education

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| 2018 | Ph.D. in Statistics, Department of Statistics, Mathematics and Insurance, Benha University, Egypt.
Dissertation Title: <i>Some New Generated Families of Distributions with Applications.</i> |
| 2013 | M.Sc. in Statistics, Department of Statistics, Mathematics and Insurance, Benha University, Egypt.
Thesis Title: <i>On Characterization of Probability Distributions.</i> |
| 2007 | B.Sc. in Statistics, Department of Statistics, Mathematics and Insurance, Benha University, Egypt. |

Work Experience

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| 2008-2013 | Demonstrator
Faculty of Commerce- Benha University, Benha (Egypt). |
| 2013-2018 | Assistant Lecturer
Faculty of Commerce- Benha University, Benha (Egypt). |
| 2018-2023 | Assistant Professor
Faculty of Commerce-Benha University, Benha (Egypt). |
| 2023 till now | Associate Professor
Faculty of Business-Benha University, Benha (Egypt). |

Research Interest

- Distribution Theory.
- Parametric Inference.
- Reliability Estimation.
- Bayesian Statistics.

- Statistical Analysis.
- Accelerated Life Testing.
- Regression Analysis.

Teaching Experience

- Mathematics and Its Applications.
- Advanced Mathematics.
- Theory of Statistics.
- Theory of Probabilities.
- Sampling.
- Order Statistics.
- Descriptive Statistics.
- Inferential Statistics.
- Applied Statistics.
- Financial Mathematics.

Computer Skills

Languages: R, Latex.

Software Packages: Mathcad, SPSS and Microsoft Office.

Languages

- Arabic.
- English.

Rewards

- The 2024 state award for individuals under the title of the "Late Mohamed Amin Lotfy Award" in the field of mathematical sciences.
- Benha University Encouragement Award in the field of basic sciences for 2023.
- Benha University award for the best PhD thesis in the field of basic sciences for 2019.
- Excellence in scientific research at Benha University: From 2018 to present.

International Conferences

- 8th International Conference on Mathematics and Information Sciences; 8-10 Feb. 2019.
- 62nd ISI Word Statistics Congress held in Kuala Lumpur; 18-23 August 2019.

Professional Activities

- Trainer at Faculty Development Center, Benha university: Workshop about international scientific publishing for the faculty staff.
- Member of the National Committee of Education, Scientific Research and Communication and Information Technology in the Simulation Model of the Senators Assembly
- Coordinator of Faculty Standards in the Statistics Program.

Editorial Board Activities

- Contemporary Mathematics (<https://ojs.wiserpub.com/index.php/CM>)
- Pakistan Journal of Statistics (<http://www.pakjs.com/editorial-board/>)
- Journal of Applied Probability and Statistics (<http://japs.isoss.net/EditorialBoard.htm>)
- Malaysian Journal of Mathematical Sciences (<https://einspem.upm.edu.my/journal/editorialboard.php>)
- Ibn Al-Haitham Journal for Pure and Applied Sciences (<https://jih.uobaghdad.edu.iq/index.php/j>)

International Supervision

PhD Students at

Pan African University, Institute for Basic Sciences, Technology and Innovation (PAUISTI)

1. Adam Braima Soliman Mastor

Title: Extended exponential-Weibull regression model (EXEWRM) for handling survival data in the presence of covariates

Supervisors: Dr. Oscar Ngesa, Dr. Joseph Mung'atu and **Dr. Ahmed Z. Afify**

Grant Date: 15/05/2023.

2. Veronica Kariuki

Title: Extended alpha power family of distributions, its properties and application

Supervisors: **Dr. Ahmed Z. Afify**, Dr. Oscar Ngesa and Dr. Anthony Wanjoya

Grant Date: 10/06/2024.

3. Mohamed Adam S. Ishag

Title: Flexible parametric Yang and Prentice approach with exponentiated Weibull distribution to model lifetime data with crossover survival curves

Supervisors: **Dr. Ahmed Z. Afify**, Dr. Anthony Wanjoya and Dr. Joseph Mung'atu

Date: 05/05/2025.

National Supervision

PhD Students

1. Mostafa Abd-Elhamid Mohamed Rabie

Title: The extended Marshall-Olkin inverse-Pareto distribution, with applications

Supervisors: Prof. Abd-ELHadi Nabeeh Ahmed and **Dr. Ahmed Z. Afify**

Registered at: Cairo University

Date: 26/09/2018-11/2021.

2. Amany Mohamed Shehata El-Sheikh

Title: Some New Generated Families of Distributions with Applications in Actuarial Sciences

Supervisors: Prof. Elsayed Ahmed Elsherpieny and **Dr. Ahmed Z. Afify**

Registered at: Cairo University

Date: 06/02/2025.

3. Mohamed A. Abdelaziz

Title: Some new generated families of probability distributions: Bayesian and classical analysis with applications

Supervisors: Prof. Zohdy Nofal and **Dr. Ahmed Z. Afify**

Registered at: Benha University

Date: 29/02/2025.

4. Osama Ibrahim Mohamed Hadhoud

Title: On Improved Methods for Generating Probability Distributions with Statistical Inference: Theory and Applications

Supervisors: Prof. Mohamed E. Mead and **Dr. Ahmed Z. Afify**

Registered at: Zagazig University

Date: 11/01/2024- until now.

5. Eman Mohamed Mohamed El Demery

Title: Some Improved Families of Probability Distributions: Theoretical Properties and Applications

Supervisors: Prof. Dr. Mohammed Mohammed Ahmed El Genidy, **Dr. Ahmed Z. Afify** and Dr. Khaled Mahfouz Abd-El Wahab Mahfouz

Registered at: Faculty of Science, Port Said University

Date: 10/06/2024- until now.

1. Mohamed Bahaa El-Din Moamen

Title: Two-Parameter Natural Discrete Lindley Distribution, with Applications to Reliability Theory

Supervisors: Prof. Abd-ELHadi Nabeeh Ahmed and **Dr. Ahmed Z. Afify**

Registered at: Cairo University

Date: 21/11/2018-04/03/2020.

2. Hamada Hassan Mohammed

Title: Improved extensions of the log-logistic distribution with applications to real-life data

Supervisors: Prof. Mohamed E. Mead and **Dr. Ahmed Z. Afify**

Registered at: Zagazig University

Date: 19/02/2023- 17/5/2025.

3. Zeinab Ismail Attia Elsayed

Title: Improved extensions of the Gompertz distribution with applications to real data

Supervisors: Prof. Mohamed E. Mead and **Dr. Ahmed Z. Afify**

Registered at: Zagazig University

Date: 15/08/2023- until now.

4. Manar Ibrahim Mohammed

Title: A new extension of beta generated family of distributions with applications to real data

Supervisors: Prof. Mohamed E. Mead and **Dr. Ahmed Z. Afify**

Registered at: Zagazig University

Date: 17/10/2023- until now.

5. Hagar Samy Mahmoud Ahmed

Title: Analysis of some new probability distributions using different censoring scheme

Supervisors: Dr. Yassmen Youssef Abdelall and **Dr. Ahmed Z. Afify**

Registered at: Cairo University

Date: 9/10/2024- until now.

6. Menna Mohamed Sayed Ahmed

Title: On some discrete-continuous probability distributions

Supervisors: Dr. Yassmen Youssef Abdelall and **Dr. Ahmed Z. Afify**

Registered at: Cairo University

Date: 9/10/2024- until now.

Publications

1. **Afify, A. Z.**, Helmi, M. M., Aljohani, H. M., Alsheikh, S. M. and Mahran, H. A. (2025). *Modeling lifetime and count data using a unified flexible family: Its discrete counterpart, properties, and inference*. PloS one, 20(4), p.e0319091.
2. **Afify, A. Z.**, Alsultan, R., Alghamdi, A. S. and Mahran, H. A. (2025). *A new flexible Weibull distribution for modeling real-life data: Improved estimators, properties, and applications*. AIMS Mathematics, 10(3), 5880-5927.
3. **Afify, A. Z.**, Nofal, Z. M. and Abdelaziz, M. A. (2025). *A unified flexible Weibull-H family for modeling real-life data with properties, Bayesian and non-Bayesian inference*. Journal of Statistics & Management Systems. DOI: 10.47974/JSMS-1440.
4. **Afify, A. Z.**, Abdelall, Y. Y., AlQadi, H. and Mahran, H. A. (2025). *The modified log-logistic distribution: properties and inference with real-life data applications*. Contemporary Mathematics, 6(1), 862-902.

5. Hamdi, W. A., Akdoğan, Y., Erbayram, T., Alqawba, M. and **Afify, A. Z.** (2025). *Statistical inference of the generalized process capability index for the discrete Lindley distribution*. Scientific Reports, 15(1), p.6776.
6. Hamdi, W. A., El-sheikh, A. M., Elsherpieny, E. A., Aljohany, H. M. and **Afify, A. Z.** (2025). *The modified Kies-Kavya-Manoharan family: properties, inference, and applications*. Advances and Applications in Statistics, 92(6), 861-887.
7. **Afify, A. Z.**, Hussein, A.E., Al-Mofleh, H., Alsultan, R. and Aljohani, H. M. (2024). *The flexible Fréchet distribution: properties, inference, and medical applications*. Journal of Mathematics, 2024, 2600560.
8. Ishag, M. A., Wanjoya, A., Adem, A., Alsultan, R., Alghamdi, A.S. and **Afify, A. Z.**, (2024). *The exponentiated-Weibull proportional hazard regression model with application to censored survival data*. Alexandria Engineering Journal, 104, 587-602.
9. Kariuki, V., Wanjoya, A., Ngesa, O., Alharthi, A. S., Aljohani, H. M. and **Afify, A. Z.** (2024). *Properties, estimation, and applications of the extended log-logistic distribution*. Scientific Reports, 14, 20967.
10. Abdelaziz, M. A., Nofal, Z. M. and **Afify, A. Z.** (2024). *A unified family for generating probabilistic models: properties, Bayesian and non-Bayesian inference with real-data applications*. Pakistan Journal of Statistics and Operation Research, 20(4), 633-660.
11. Jabeen, R., Zaka, A., Nagy, M., Al-Mofleh, H. and **Afify, A. Z.** (2024). *A new modified estimator of population variance in calibrated survey sampling*. Scientific Reports, 14, 24385.
12. El-Sheikh, A. M., Alqawba, M., El-Sherpieny, E. A. and **Afify, A. Z.** (2024). *An extended symmetrical and asymmetrical generator: properties, inference, actuarial measures, and applications*. Pakistan Journal of Statistics, 40(4), 359-388.
13. Alnssyan, B., Khan, D. M., Ali, M. and **Afify, A. Z.** (2024). *Forecasting of crude oil prices using hybrid time series and machine learning models*. Pakistan Journal of Statistics, 40(4), 407-428.
14. Tanis, C., Mansour, M. M., Abd Elrazik, E. M., Chesneau, C., Al-Mofleh, H. and **Afify, A. Z.** (2024). *A new zero-inflated regression model with applications to Australian health survey and biochemistry graduate students data*. Journal of Mathematics, 2024, 4081833.
15. Al Abbasi, J. N., **Afify, A. Z.**, Alnssyan, B. and Shama, M. S. (2024). *The Lambert-G family: properties, inference, and applications*. Computer Modeling in Engineering & Sciences, 140(1), 513-536.
16. Mahran, H., Mansour, M. M., Abd Elrazik, E. M. and **Afify, A. Z.** (2024). *A new one-parameter flexible family with variable failure rate shapes: properties, inference, and real-life applications*. AIMSs Mathematics, 9(5), 11910-11940.
17. Kariuki, V., Wanjoya, A., Ngesa, O., Mansour, M. M., Abd Elrazik, E. M. and **Afify, A. Z.** (2024). *The accelerated failure time regression model under the extended-exponential distribution with survival analysis*. AIMSs Mathematics, 9(6), 15610-15638.
18. Jamal, F., Alqawba, M., Altayab, Y., Iqbal, T. and **Afify, A. Z.** (2024). *A unified exponential-H family for modeling real-life data: properties and inference*. Heliyon, 10(6), e27661.
19. Handique, L., Eliwa, M. S., Chakraborty, S., El-Morshedy, M., **Afify, A. Z.** and Eliwa, M. S. (2024). *Modelling veterinary medical data utilizing a new generalized Marshall-Olkin transmuted generator of distributions with statistical properties*. Thailand Statistician, 22(1), 219-236.
20. **Afify, A. Z.**, Pescim, R. R., Cordeiro, G. M. and Mahran (2023). *A new heavy-tailed exponential distribution: inference, regression model and applications*. Pakistan Journal of Statistics and Operation Research, 19(3), 395-411.
21. **Afify, A. Z.**, Hussein, E. A., Alnssyan, B. and Mahran, H. A. (2023). *The extended log-logistic distribution: properties, inference, and applications in medicine and geology*. Journal of Statistics Applications & Probability, 12(S1), 1555-1580.
22. Nassar, M., Dobbah, S. A. and **Afify, A. Z.** (2023). *Inference on constant stress accelerated life tests under exponentiated exponential distribution*. Electronic Journal of Applied Statistical Analysis, 16(2), 234-256.

23. Al-Mofleh, H., Hussein, E. A., **Afify, A. Z.**, Alnssyan, B. and Abdellatif, A. D. (2023). *The extended-exponential distribution: properties, estimation methods, and applications*. Journal of Applied Probability and Statistics, 18(3), 51-80.
24. Mastor, A. B. S., Alghamdi, A. S., Ngesa, O., Mung'atu, J., Chesneau, C. and **Afify, A. Z.** (2023). *The extended exponential-Weibull accelerated failure time model with application to Sudan COVID-19 data*. Mathematics, 11(2), p.460.
25. Iqbal, T., Alfaer, N. M., Tahir, M. H., Aljohani, H.M., Jamal, F. and **Afify, A. Z.** (2023). *Properties and estimation approaches of the odd JCA family with applications*. Concurrency Computat Pract Exper., 35(1), e7417.
26. Mustafa, S. S., El Ktaibi, F., Al Abbasi, J. N., Chesneau, C. and **Afify, A. Z.** (2023). *Complete study of an original power-exponential transformation approach for generalizing probability distributions*. Axioms, 12(1), 67.
27. Qura, M. E., Alqawba, M., Al Sobhi, M. M. and **Afify, A. Z.** (2023). *A novel extended power-Lomax distribution for modeling real-life data: properties and inference*. Journal of Mathematics, 2023, Article ID 6661792, 26 pages.
28. Ahsan-ul-Haq, M., Aldahlan, M. A., Zafar, J., Gómez, H. W., **Afify, A. Z.** and Mahran, H. A. (2023). *A new cubic transmuted power-function distribution: properties, inference, and applications*. Plos one, 18(2), p.e0281419.
29. Khalid, M., Ahsan-ul-Haq, M., Gemeay, A. M. and **Afify, A. Z.** (2023). *The logistic exponential Poisson distribution with mathematical properties and application*. Pak. J. Statist., 39(3), 313-328.
30. Alnssyan, B., Hussein, E. A., Alizadeh, M., **Afify, A. Z.** and Abdellatif, A. D. (2023). *The weighted Lindley-G family of probabilistic models: properties, inference, and applications to real-life data*. Journal of Intelligent & Fuzzy Systems, 44(5), 8071–8089.
31. Bandar, S. A., Hussein, E. A., Yousof, H. M., **Afify, A. Z.** and Abdellatif, A. D. (2023). *A novel extension of the reduced-Kies family: properties, inference, and applications to reliability engineering data*. Advanced Mathematical Models & Applications, 8(1), 45-64.
32. Alfaer, N. M., Bandar, S. A., Kharazmi, O., Al-Mofleh, H., Ahmad, Z. and **Afify, A. Z.** (2023). *Classical and Bayesian estimation for type-I extended-F family with an actuarial application*. Plos one, 18(2), p.e0275430.
33. Alqawba, M., Altayab, Y., Zaidi, S. M. and **Afify, A. Z.** (2023). *The extended Kumaraswamy generated family: properties, inference and applications in applied fields*. Electronic Journal of Applied Statistical Analysis, 16(3), 740-763.
34. Aldahlan, M. A., Rabie, A. M., Abdelhamid, M., Ahmed, A. H. N. and **Afify, A. Z.** (2023). *The Marshall–Olkin Pareto type-I distribution: properties, inference under complete and censored samples with application to breast cancer data*. Pakistan Journal of Statistics and Operation Research, 19(4), 603-622.
35. **Afify, A. Z.**, Al-Mofleh, H., Aljohani, H. M. and Cordeiro, G. M. (2022). *The Marshall–Olkin-Weibull-H family: Estimation, simulations, and applications to COVID-19 data*. Journal of King Saud University-Science, 34 (5), p.102115.
36. **Afify, A. Z.**, Gemeay, A. M., Alfaer, Cordeiro, G. M. and Hafez, E. H. (2022). *Power-modified Kies-exponential distribution: properties, classical and Bayesian inference with an application to engineering data*. Entropy, 24(7), 883.
37. **Afify, A. Z.**, Ahsan-ul-Haq, M., Aljohani, H. M., Alghamdi, A. S., Babar, A. and Gómez, H. W. (2022). *A new one-parameter discrete exponential distribution: properties, inference, and applications to COVID-19 data*. Journal of King Saud University – Science, 34(6), 102199.
38. **Afify, A. Z.**, Nassar, M., Kumar, K. and Cordeiro, G. M. (2022). *A new unit distribution: properties, inference, and applications*. Electronic Journal of Applied Statistical Analysis, 15(2), 460-484
39. Shama, M. S., Dey, S., Altun, E. and **Afify, A. Z.** (2022). *The gamma–Gompertz distribution: theory and applications*. Mathematics and Computers in Simulation, 193, 689–712.

40. Hosseini, B., Afshari, M., Alizadeh, M. and **Afify, A. Z.** (2022). *A new weighted-Lindley distribution: properties, classical and Bayesian estimation with an application*. Pak. J. Stat. Oper. Res., 18(4), 1049-1066.
41. Alghamdi, A. S., Ahsan-ul-Haq, M., Babar, A., Aljohani, H. M., **Afify, A. Z.** (2022). *The discrete power-Ailamujia distribution: properties, inference, and applications*. AIMS Mathematics, 7(5), 8344-8360.
42. Al Mutairi, A., Iqbal, M. Z., Arshad, M. Z. and **Afify, A. Z.** (2022). *A new class of the power function distribution: theory and inference with an application to engineering data*. Journal of Mathematics, 2022, 1206254, 15 pages.
43. **Afify, A. Z.**, Marzouk, M., Al-Mofleh, H., Ahmed, A.H.N. (2022). *The extended failure rate family: properties and applications in the engineering and insurance fields*. Pakistan Journal of Statistics, 38(2), 165-196.
44. Hussein, E. A., Aljohani, H. M. and **Afify, A. Z.** (2022). *The extended Weibull-Fréchet distribution: properties, inference, and applications in medicine and engineering*. AIMS Mathematics, 7(1), 225-246.
45. Riad, F. H., Hussam, E., Gemeay, A. M., Aldallal, R. A. and **Afify, A. Z.** (2022). *Classical and Bayesian inference of the weighted-exponential distribution with an application to insurance data*. Mathematical Biosciences and Engineering, 19(7), 6551-6581.
46. Mastor, A. B. S., Ngesa, O., Mung'atu, J., Alfaer, N. M. and **Afify, A. Z.** (2022). *The extended exponential Weibull distribution: properties, inference, and applications to real-life data*. Complexity, 2022, 1-13.
47. Aljohani, H. M., Bandar, S. A., Al-Mofleh, H., Ahmad, Z., El-Morshedy, M. and **Afify, A. Z.** (2022). *A new asymmetric extended family: Properties and estimation methods with actuarial applications*. PLoS ONE, 17(10): e0275001.
48. Khan, D. M., Ali, M., Iqbal, N., Khalil, U., Aljohani, H. M., Alharthi, A. S. and **Afify, A. Z.** (2022). *Short-term prediction of covid-19 using novel hybrid ensemble empirical mode decomposition and error trend seasonal model*. Frontiers in Public Health, 10, 922795.
49. **Afify, A. Z.**, Aljohani, H. M., Alghamdi, A. S., Gemeay, A. M. and Sarg, A. M. (2021). *A new two-parameter Burr-Hatke distribution: properties and Bayesian and non-Bayesian inference with applications*. Journal of Mathematics, 2021, 1061083, 16 pages.
50. **Afify, A. Z.**, Cordeiro, G. M., Ibrahim, N. A., Jamal, F., Elgarhy, M. and Nasir, M. A. (2021). *The Marshall-Olkin odd Burr III-G family: theory, estimation, and engineering applications*. IEEE Access, 9, 4376- 4387.
51. **Afify, A. Z.**, Shawky, A. I. and Nassar, M. (2021). *A new inverse Weibull distribution: properties, classical and Bayesian estimation with applications*. Kuwait Journal of Science. 48(3), 1-10.
52. **Afify, A. Z.**, Al-Mofleh, H. and Dey, S. (2021). *Topp-Leone odd log-logistic exponential distribution: its improved estimators and applications*. Anais da academia Brasileira de Ciências. 93(4), e20190586.
53. **Afify, A. Z.**, Suzuki, A. K., Zhang, C. and Nassar, M. (2021). *On three-parameter exponential distribution: properties, Bayesian and non-Bayesian estimation based on complete and censored samples*. Communications in Statistics - Simulation and Computation. 50(11), 3799-3819.
54. Aljohani, H.M., Akdogan, Y., Cordeiro, G.M. and **Afify, A. Z.** (2021). *The uniform Poisson-Ailamujia distribution: actuarial measures and applications in biological science*. Symmetry, 13(7), 1258.
55. **Afify, A. Z.**, El-Morshedy, M. and Eliwa, M. S. (2021). *A new skewed discrete model: properties, inference, and applications*. Pak.j.stat.oper.res., 17(4), 799-816.
56. Reyad, H., Korkmaz, M. Ç., **Afify, A. Z.**, Hamedani, G. G. and Othman, S. (2021). *The Fréchet Topp Leone-G family of distributions: properties, characterizations and applications*. Annals of Data Science. 8(2), 345-366.
57. Al-Babtain, A.A., Kumar, D., Gemeay, A.M., Dey, S. and **Afify, A.Z.** (2021). *Modeling engineering data using extended power-Lindley distribution: properties and estimation methods*. Journal of King Saud University – Science, 33(8), 101582.

58. Al Mutairi, A., Iqbal, M.Z., Arshad, M.Z. and **Afify, A.Z.** (2021). *A new extended model with bathtub shaped failure rate: properties, simulation, and applications to failure rate and survival data.* Mathematics, 9(17), p.2024.
59. Almetwally, E., **Afify, A. Z.** and Hamedani, G. G. (2021). *Marshall-Olkin alpha power Rayleigh distribution: properties, characterizations, estimation and engineering applications.* Pak. J. Stat. Oper. Res., 17(3), 745-760.
60. Elshahhat, A., Aljohani, H. M. and **Afify, A. Z.** (2021). *Bayesian and classical inference under type-II censored samples of the extended inverse Gompertz distribution with engineering applications.* Entropy, 23(12), 1578.
61. Al-Babtain, A. A., Sherwani, R. A. K., **Afify, A. Z.**, Aidi, K., Nasir, M. A., Jamal, F. and Saboor, A. (2021). *The extended Burr-R class: properties, applications and modified test for censored data.* AIMS Mathematics, 6(3), 2912-2931.
62. Ahmad, Z., Mahmoudi, E. Roozegar, R. Alizadeh, M. and **Afify, A. Z.** (2021). *A new exponential-X family: modeling extreme value data in finance sector.* Mathematical Problems in Engineering, 2021, 8759055, 14 pages.
63. Ahsan-ul-Haq, M., Babar, A., Hashmi, S., Alghamdi, A. S. and **Afify, A. Z.** (2021). *The discrete type-ii half-logistic exponential distribution with applications to COVID-19 data.* Pak.j.stat.oper.res., 17(4), 921-932.
64. Zhao, J., Ahmad, Z., Almaspoor, Z., El-Morshedy, M. and **Afify, A. Z.** (2021). *Modeling COVID-19 pandemic dynamics in two asian countries.* Computers, Materials & Continua, 67(1), 965-977.
65. Alsubie1, A., Abdelhamid, M., Ahmed, A.H.N., Alqawba, M. and **Afify, A. Z.** (2021). *Inference on generalized inverse-Pareto distribution under complete and censored samples.* Intelligent Automation & Soft Computing, 29(1), 213-232.
66. Zaidi, S. M., Al Sobhi, M. M., El-Morshedy, M. and **Afify, A. Z.** (2021). *A new generalized family of distributions: properties and applications.* Aims Math, 6, pp.456-476.
67. Al-Babtain, A. A., Gemeay, A. M. and **Afify, A. Z.** (2021). *Estimation methods for the discrete Poisson-Lindley and discrete Lindley distributions with actuarial measures and applications in medicine.* Journal of King Saud University – Science, 33(2), 101224.
68. Alam, F. M. A., Alrajhi, S., Nassar, M. and **Afify, A. Z.** (2021). *Modeling liver cancer and leukemia data using arcsine-gaussian distribution.* Computers, Materials & Continua, 67(2), 2185-2202.
69. Al-Babtain, A.A., Elbatal, I., Al-Mofleh, H., Gemeay, A.M., **Afify, A.Z.** and Sarg, A.M., (2021). *The flexible Burr X-G family: properties, inference, and applications in engineering science.* Symmetry, 13(3), p.474.
70. Alfaer, N.M., Gemeay, A.M., Aljohani, H.M. and **Afify, A.Z.** (2021). *The extended log-logistic distribution: inference and actuarial applications.* Mathematics, 9(12), p.1386.
71. Almazah, M.M.A., Alnssyan, B., Ahmed, A.H.N. and **Afify, A.Z.** (2021). *Reliability properties of the NDL family of discrete distributions with its inference.* Mathematics, 9(10), p.1139.
72. Almazah, M.M.A., Erbayram, T., Akdoğan, Y., AL Sobhi, M.M. and **Afify, A.Z.** (2021). *A new extended geometric distribution: properties, regression model, and actuarial applications.* Mathematics, 9(12), p.1336.
73. Ahmad, Z., Mahmoudi, E., Alizadeh, M., Roozegar, R. and **Afify, A.Z.** (2021). *The exponential T-X family of distributions: properties and an application to insurance data.* Journal of Mathematics, 2021, 3058170, 18 pages.
74. Alsubie, A., Akhter, Z., Athar, H., Alam, M., Ahmad, A.E.B.A., Cordeiro, G.M. and **Afify, A.Z.** (2021). *On the omega distribution: some properties and estimation.* Mathematics, 9(6), p.656.
75. Ul-Haq, M.A., **Afify A.Z.**, Al-Mofleh, H., Usman, R.M., Alqawba, M. and Sarg, A.M. (2021). *The Marshall-Olkin modified Burr III distribution: properties and applications,* Pakistan Journal of Statistics and Operation Research, 17(1), 1-14.

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Accepted Papers

- 1- Ishag, M. A. S., Wanjoya, A., Adem, A., Alghamdi, A. S. and **Afify, A. Z.** (2025). Flexible proportional odds regression model with applications. *Malaysian Journal of Mathematical Sciences*. *To appear*.
- 2- **Afify, A. Z.** (2022). *Three-parameter exponential distribution: estimation and applications*. *Journal of Statistical Theory and Applications*. *To appear*.
- 3- Al-Mofleh, H. and **Afify, A. Z.** (2020). *A new generalized family of distributions: Properties and applications*. *Journal of Statistical Theory and Applications*. *To appear*.
- 4- Reyad, H. M., **Afify, A. Z.**, Jamal, F. and Othman, S. (2019). *The extended power Lindley-G family of distributions: properties and applications*. *Journal of Modern Applied Statistical Methods*. *To appear*.
- 5- Hamed, M. S. and **Afify, A. Z.** (2019). *The extended Fréchet distribution: properties and applications*. *Journal of Modern Applied Statistical Methods*. *To appear*.

Chapters in Books

- 1- Mastor, A. B., Ngesa, O., Mung'atu, J., **Afify, A. Z.**, Muse, A. H. (2023). *Extended Exponential-Weibull Mixture Cure Model for the Analysis of Cancer Clinical Trials*. In: Yilmaz, F., Queiruga-Dios, A., Martín Vaquero, J., Mierluș-Mazilu, I., Rasteiro, D., Gayoso Martínez, V. (eds) *Mathematical Methods for Engineering Applications*. ICMASE 2022. Springer Proceedings in Mathematics & Statistics, vol 414. Springer, Cham.
- 2- Ishag, M. A., Wanjoya, A., Adem, A., **Afify, A. Z.** (2024). *Exponentiated Weibull Mixture Cure Model to Handle Right-Censored Data Set*. In: Gayoso Martínez, V., Yilmaz, F., Queiruga-Dios, A., Rasteiro, D.M., Martín-Vaquero, J., Mierluș-Mazilu, I. (eds) *Mathematical Methods for Engineering Applications*. ICMASE 2023. Springer Proceedings in Mathematics & Statistics, vol 439. Springer, Cham.

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