



Curriculum Vitae

PERSONAL DATA:

- **Name:** Abd El-Raheem Mohamed Abd El-Raheem Mohamed
- **Nationality:** Egyptian
- **Date of Birth:** 18/02/1987
- **Position:** Associate Professor of Mathematical statistics, Mathematics Department, Faculty of Education, Ain Shams University.
- **E-mail:** a_m2am@yahoo.com
abdelrahimmohamed@edu.asu.edu.eg
abdelraheem2am@gmail.com
- **Telephone:** (+2)01116279903

ACADEMIC QUALIFICATIONS

Degree	Major	Grade	Date	University	Country
B.Sc.	Mathematics	Excellent	2008	Ain Shams	Egypt
General Diploma	Statistics	Excellent	2009	Ain Shams	Egypt
Special Diploma	Statistics	Excellent	2010	Ain Shams	Egypt
M.Sc.	Statistics	Excellent	2013	Ain Shams	Egypt
Ph.D	Statistics	Granted	2016	Ain Shams	Egypt

ACADEMIC POSITIONS

Position (Full-time)	University	From	To
Associate Professor	Faculty of Education, Ain Shams University, Cairo, Egypt	28/4/2022	Present
Assistant Professor	Faculty of Education, Ain Shams University, Cairo, Egypt	18/11/2016	27/4/2022
Assistant Lecturer	Faculty of Education, Ain Shams University, Cairo, Egypt	25/05/2013	17/11/2016
Demonstrator	Faculty of Education, Ain Shams University, Cairo, Egypt	06/09/2009	24/05/2013
Position(Part-time)	University	From	To
Associate Professor	Faculty of computer science, Future University, Cairo, Egypt.	01/02/2023	Present
Associate Professor	Cairo College of Technology, Helwan International Technological University	15/9/2023	Present

MEMBERSHIP IN PROFESSIONAL ORGANIZATION

- **Egyptian Mathematical Society.**

WORKSHOP ATTENDED

- Myers Briggs Type Indicator (MBTI) in Teaching, University of Prince Edward Island, Canada (April 2014).
- Time and Meeting Management (25–26 Sept 2018).
- Leadership (25–26 Sept 2018).
- Professional Ethics and Conduct (8–9 Oct 2019).
- Problem Solving and Decision Making (6–7 Sept 2020).
- Egyptian Knowledge Bank (24–25 June 2021).

COURSES

- International Computer Driving License (ICDL) .
- 180 hours of general English sessions in the American University in Cairo.
- Twelve faculty development courses, Ain Shams University.

SCIENTIFIC THESIS

- Studies on Mid-Truncated Distributions.
- Statistical Analysis for Accelerated Life Tests Based on Different Censoring Schemes.

LIST OF PUBLICATIONS

- 1- **A. M. Abd El-Raheem**, Ibrahim A. A. Shanan & Mona Hosny. Saddlepoint p-values for the class of bivariate two-sample tests under generalized randomized block design, *Journal of Biopharmaceutical Statistics*, DOI: 10.1080/10543406.2025.2592617 **(ISI -IF: 1.2 – Q2)**.
- 2- Ibrahim A. A. Shanan, Mona Hosny & **A. M. Abd El-Raheem**. Saddlepoint approximation for the bivariate two-sample tests under the random allocation design. *Networks and Heterogeneous Media*, 2025, 20(4), 1190-1200. doi: [10.3934/nhm.2025051](https://doi.org/10.3934/nhm.2025051). **(ISI -IF: 1.3 – Q3)**.
- 3- Kamal, Kh.S., **A. M. Abd El-Raheem**. Saddlepoint p -Values for Linear Rank Tests of Left-Truncated Data with Right Censoring and Cross-Sectional Data. *Journal of Statistical Theory and Applications*, 2025, <https://doi.org/10.1007/s44199-025-00133-y>. **(ISI -IF: 1.8 – Q1)**.
- 4- **A. M. Abd El-Raheem**, Mona Hosny. Saddlepoint approximation for the p-values of some distribution-free tests. *AIMS Mathematics*, 2025, 10(2): 2602–2618. **(ISI -IF: 1.8 – Q1)**.
- 5- **A. M. Abd El-Raheem**, Mona Hosny. On the distribution of the random sum and linear combination of independent exponentiated exponential random variables. *Symmetry*, 2025, 17, 200. <https://doi.org/10.3390/sym17020200>. **(ISI -IF: 2.4 – Q2)**.
- 6- M. Sief, X. Liu, N. Alsadat, and **A. M. Abd El-Raheem**. Estimation of the constant-stress model with bathtub-shaped failure rates under progressive type-I interval censoring scheme, *Alexandria Engineering Journal* 103 (2024) 313–326. **(ISI -IF: 6.2 – Q1)**.
- 7- **A. M. Abd El-Raheem**, Haidy N. Mohamed & Ehab F. Abd- Elfattah. Saddlepoint p-values for a class of location-scale tests, *Journal of*

Biopharmaceutical Statistics, 2024, DOI: 10.1080/10543406.2024.2358810.
(ISI -IF: 1.2 – Q2).

- 8- **A. M. Abd El-Raheem**, Ibrahim A. A. Shanan, Mona Hosny. Saddlepoint approximation of the p-values for the multivariate one-sample sign and signed-rank tests. AIMS Mathematics, 2024, 9(9): 25482-25493. doi: 10.3934/math.20241244. **(ISI -IF: 1.8 – Q1).**
- 9- **A. M. Abd El-Raheem**, I.A. Shanan, and E. F. Abd-Elfattah. Saddlepoint Approximations for the P-values and Probability Mass functions of Some Bivariate Sign Tests. Communications in Statistics - Theory and Methods, 2024. **(ISI -IF: 0.8 - Q4).**
- 10- H. N. Mohamed, E. F. Abd-Elfattah, A. Abd-El-Monem, and **A. M. Abd El-Raheem**. Saddlepoint p-values for a class of location-scale tests under randomized block design. Scientific Reports, 2024,14. **(ISI -IF: 4.6 - Q2).**
- 11- M. Sief, X. Liu, and **A. M. Abd El-Raheem**. Inference for a constant-stress model under progressive type-II censored data from the truncated normal distribution, Computational Statistics, 2023. **(ISI -IF: 1.3 - Q3).**
- 12- I.A. Shanan, E. F. Abd-Elfattah and **A. M. Abd El-Raheem**. A new approach for approximating the p-value of a class of bivariate sign tests. Scientific Reports, 2023, 13. **(ISI -IF: 4.6 - Q2).**
- 13- **A. M. Abd El-Raheem**, Kholoud S. Kamal & Ehab F. Abd-Elfattah. Linear rank tests for left-truncated data using randomized block design: saddlepoint p-values and confidence intervals, Communications in Statistics - Simulation and Computation, 2023. **(ISI -IF: 0.9 - Q3).**
- 14- M. Sief, X. Liu, M. Hosny, and **A. M. Abd El-Raheem**. Constant-Stress Modeling of Log-Normal Data under Progressive Type-I Interval Censoring: Maximum Likelihood and Bayesian Estimation Approaches, Axioms, 2023, 12(7), 710. **(ISI -IF: 2.0 – Q2).**
- 15- **A. M. Abd El-Raheem**, and M. Hosny. Saddlepoint p-values for a class of nonparametric tests for the current status and panel count data under generalized permuted block design, AIMS Mathematics, 2023, 8(8): 18866–18880. **(ISI -IF: 2.2 – Q1).**
- 16- **A. M. Abd El-Raheem**, M. Hosny, and E. F. Abd-Elfattah. Statistical Inference of the Class of Nonparametric Tests for the Panel Count and

Current Status Data from the Perspective of the Saddlepoint Approximation, Journal of Mathematics,2023, 1-8. **(ISI-IF: 1.4 – Q1).**

- 17- **A. M. Abd El-Raheem**, and E. F. Abd-Elfattah. Weighted log-rank tests for censored data under Wei's urn design: saddlepoint approximation and confidence intervals, Journal of Biopharmaceutical Statistics,2023. **(ISI- IF: 1.1- Q3).**
- 18- **A. M. Abd El-Raheem**, Kh. S. Kamal, and E. F. Abd-Elfattah. P-values and confidence intervals of linear rank tests for left-truncated data under truncated binomial design, Journal of Biopharmaceutical Statistics,2023. **(ISI- IF: 1.1- Q3).**
- 19- Kh. S. Kamal, **A. M. Abd El-Raheem**, and E. F. Abd-Elfattah. Weighted log-rank tests for left-truncated data under Wei's urn design: saddlepoint p-values and confidence intervals, Journal of Biopharmaceutical Statistics, 2022. **(ISI- IF: 1.5- Q3).**
- 20- Kh.S. Kamal, **A. M. Abd El-Raheem**, and E. F. Abd-Elfattah. Weighted log-rank tests for left-truncated data: Saddlepoint p-values and confidence intervals, Communications in Statistics – Theory and Methods, 2021. **(ISI- IF: 0.8- Q4).**
- 21- **A. M. Abd El-Raheem**, M. Hosny, and M. H. Abu-Moussa, on progressive censored competing risks data: real data application and simulation study, Mathematics, 2021, 9, 1805. **(ISI- IF: 2.4- Q1).**
- 22- M. Sief, X. Liu, and **A. M. Abd El-Raheem**. Inference for a constant-stress model under progressive type-I interval censored data from the generalized half-normal distribution, Journal of Statistical Computation and Simulation, 2021. **(ISI- IF: 1.4- Q2).**
- 23- **A. M. Abd El-Raheem**, Optimal design of multiple constant-stress accelerated life testing for the extension of the exponential distribution under type-II censoring, Journal of Computational and Applied Mathematics, 382, 2021, 113094. **(ISI- IF: 2.8- Q1).**
- 24- **A. M. Abd El-Raheem**, E. M. Almetwally, M. S. Mohamed, E. H. Hafez. Accelerated life tests for modified Kies exponential lifetime distribution: binomial removal, transformers turn insulation application and numerical results. AIMS Mathematics (2021), 6(5): 5222–5255. **(ISI- IF: 2.2- Q1).**
- 25- **A. M. Abd El-Raheem**, M.H. Abu-Moussa, M.M. Mohie El-Din, E.H. Hafez. Accelerated life tests under Pareto-IV lifetime distribution: Real data application and simulation study. Mathematics (2020), 8, 1786. **(ISI- IF: 2.4- Q1).**

- 26- **A. M. Abd El-Raheem**, E. F. Abd-Elfattah. Log-rank tests for censored clustered data under generalized randomized block design: Saddlepoint approximation. *Journal of Biopharmaceutical Statistics*, 2020, 31(3), 352-361. **(ISI- IF: 1.5- Q3)**.
- 27- **A. M. Abd El-Raheem**, E. F. Abd-Elfattah. Weighted log-rank tests for clustered censored data: Saddlepoint p-values and confidence intervals. *Statistical Methods in Medical Research*. 2020, 29(9), 2629-2636. **(ISI- IF: 3.02- Q1)**.
- 28- **A. M. Abd El-Raheem**. Optimal design of multiple accelerated life testing for generalized half-normal distribution under type-I censoring, *Journal of Computational and Applied Mathematics*, 2020, 368. **(ISI- IF: 2.8- Q1)**.
- 29- **A. M. Abd El-Raheem**. Inference and optimal design of multiple constant-stress testing for generalized half-normal distribution under type-II progressive censoring, *Journal of Statistical Computation and Simulation*, 2019, 89 (16), 3075–3104. **(ISI- IF: 1.4- Q2)**.
- 30- **A. M. Abd El-Raheem**. Optimal plans and estimation of constant-stress accelerated life tests for the extension of the exponential distribution under type-I censoring, *Journal of Testing and Evaluation*, 2019, 47(5), 3781–3821. **(ISI- IF: 1.2- Q3)**.
- 31- **A. M. Abd El-Raheem**. Optimal plans of constant-stress accelerated life tests for extension of the exponential distribution, *Journal of Testing and Evaluation*, 2019, 47 (2), 1586-1605. **(ISI- IF: 1.2- Q3)**.
- 32- M. M. Mohie El-Din, S. E. Abu-Youssef, N. S. A. Ali, and **A. M. Abd El-Raheem**. Classical and Bayesian inference on progressive-stress accelerated life testing for the extension of the exponential distribution under progressive type-II censoring, *Quality and Reliability Engineering International*, 2017, 33, 2483-2496. **(ISI- IF: 2.3- Q3)**.
- 33- M. M. Mohie-El-Din, S. E. Abu-Youssef, N. S. A. Ali, **A. M. Abd El-Raheem**. Optimal plans of constant-stress accelerated life tests for the Lindley distribution. *Journal of Testing and Evaluation*, 2017, 45(4), 1463-1475. **(ISI- IF: 1.2- Q3)**.
- 34- M. M. Mohie-El-Din, S. E. Abu-Youssef, N. S. A. Ali, **A. M. Abd El-Raheem**. Estimation in constant-stress accelerated life tests for extension of the exponential distribution under progressive censoring. *Metron*, 2016, 74(2), 253-273. **(ISI- IF: 0.8- Q3)**.

- 35- M. M. Mohie El-Din, **A. M. Abd El-Raheem**, S. O. Abd El-Azeem. On step-stress accelerated life testing for power generalized Weibull distribution under progressive type-II censoring. *Annal of Data Science*, 2020, 8(3), 629-644. **(Scopus)**.
- 36- M. M. Mohie El-Din, **A. M. Abd El-Raheem**, S. O. Abd El-Azeem. Inference for a constant-stress accelerated life testing for power generalized Weibull distribution under progressive type-II censoring. *Journal of Statistics Application and Probability*, 2019, 8, 201-216. **(Scopus)**.
- 37- M. M. Mohie El-Din, S. E. Abu-Youssef, N. S. A. Ali, and **A. M. Abd El-Raheem**. Inference on constant-stress accelerated life testing based on geometric process for extension of the exponential distribution under type-II progressive censoring, *Pakistan Journal of Statistics and Operation Research*, 2018, 14(2), 233-251. **(Scopus)**.
- 38- M. M. Mohie-El-Din, S. E. Abu-Youssef, N. S. A. Ali, **A. M. Abd El-Raheem**. Parametric inference on step-stress accelerated life testing for the extension of exponential distribution under progressive type-II censoring, *Communications for Statistical Applications and Methods*, 2016, 23(4), 269-285. **(Scopus)**.
- 39- **A. M. Abd El-Raheem**. Estimation and optimal plans of multiple ramp-stress accelerated life tests for the generalized half-normal distribution, *Journal of the Egyptian Mathematical Society*, 2018, 26(2), 347-364. **(Scopus)**.
- 40- M. M. Mohie El-Din, **A. M. Abd El-Raheem**, and S. O. Abd El-Azeem. On progressive-stress accelerated life testing for power generalized Weibull distribution under progressive type-II censoring, *Journal of Statistics Applications & Probability Letters*, 2018, 5(3), 131-143. **(Scopus)**.
- 41- M. M. Mohie-El-Din, A. M. T. Abd El-Bar, **A. M. Abd El-Raheem**. Random sum of mid truncated exponentiated exponential distribution. *Journal of Advanced Research in Statistics and Probability*. 2011, 3, 1-19.
- 42- M. M. Mohie-El-Din, A. M. T. Abd El-Bar, **A. M. Abd El-Raheem**. On the mixed sum of doubly infinite and mid truncated independent random variables. *Journal of Advanced Research in Statistics and Probability*. 2011, 3, 58-69.
- 43- M. M. Mohie-El-Din, M. M. Ameen, **A. M. Abd El-Raheem**. On mid-truncated distributions and its applications. *Journal of Advanced Research in Applied Mathematics*. 2013, 5, 20-38.
- 44- M. M. Mohie-El-Din, S. E. Abu-Youssef, N. S. A. Ali, **A. M. Abd El-Raheem**. Estimation in step-stress accelerated life tests for Weibull

distribution with progressive first-failure censoring. Journal of Statistics Application and Probability, 2015, 3, 403-411.

- 45- M. M. Mohie-El-Din, S. E. Abu-Youssef, N. S. A. Ali, **A. M. Abd El-Raheem**. Estimation in step-stress accelerated life tests for power generalized Weibull distribution with progressive censoring. Advances in Statistics, 2015, 2015, 1-13.

RESEARCH INTERESTS

- 1- Statistical Modeling and Data Analysis.
- 2- Theory of Distributions.
- 3- Estimation Theory.
- 4- Reliability.
- 5- Statistical Computing.
- 6- Order Statistics.
- 7- Accelerated life testing.
- 8- Non-parametric statistics.

REFEREE IN THE FOLLOWING INTERNATIONAL JOURNALS

1. Journal of Statistical Computation and Simulation.
2. Hacettepe Journal of Mathematics and Statistics.
3. Journal of Statistics Applications & Probability Letters.
4. Journal of Computational and Applied Mathematics.
5. Applied Mathematics and Information Science.
6. Pakistan Journal of Statistics and Operation Research.
7. Axioms.
8. Mathematics.
9. AIMS Mathematics.
10. Symmetry.
11. Mathematical Biosciences and Engineering.

TEACHING EXPERIENCES

Under Graduate Courses

- Introduction to probability theory.
- Introduction to statistics.
- Mathematica.
- Introduction to the computer.
- Introduction to R.
- Matlab.
- Descriptive statistics.
- Calculus 1.
- Calculus 2.
- Foundation of Mathematics.
- Vector analysis.
- Geometry.
- Ordinary differential equations.

Post Graduate Courses

- Mathematical statistics.
- Order statistics.
- Sampling techniques.
- Linear regeneration.
- Design of Experiments.
- Non-Parametric statistics
- Introduction to R.
- Methods of approximation in statistics.

M.SC. AND PH.D. THESIS SUPERVISION

- 1- Ph.D. thesis in statistics “**Contribution to statistical analysis of accelerated life testing**”. Mohamed Saif Ghalb, Fayoum University, Fayoum, Egypt.
- 2- M.Sc. thesis in statistics “**Statistical inference for accelerated life models**”. Sara Omar Abd el-Azeem, Fayoum University, Fayoum, Egypt.

- 3- M.Sc. thesis in statistics “**Saddlepoint approximations in statistical inferences**” Kholoud Sayed Kamal, Ain Shams University, Cairo, Egypt.
- 4- M.Sc. thesis in statistics “**Tests for location and scale parameters using saddlepoint approximations**” Haidy Nagi Mohamed, Ain Shams University, Cairo, Egypt.
- 5- Ph.D. thesis in statistics “**Application for saddlepoint method in statistics**”. **Ebrameem Abd Ali Shanana**, Ain Shams University, Cairo, Egypt.
- 6- Ph.D. thesis in statistics “**Saddlepoint approximations and their applications in data analysis.**”Kholoud Sayed Kamal, Ain Shams University, Cairo, Egypt.

AWARDS

Prof. Dr. Bahaa El-deen Helmy Esmaeel’s award for the best Ph.D Statistics thesis in 2018.

SITES

1- Research gate:

https://www.researchgate.net/profile/Abd_El_Raheem_Abd_El-Raheem

2-Google Scholar:

<https://scholar.google.com.eg/citations?user=UkcF7oMAAAAJ&hl=ar>

3-Mendeley: <https://www.mendeley.com/profiles/abd-el-raheem-mohamed2/>

4- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57195586223>