

Curriculum Vitae (CV)

Family Name: Abd-Elrahman
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Date of Brith: 26-02-1965.
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Employment

Lecturer (2013-) Full-time at Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Lecturer (2006-2013) Full-time at Department of Mathematics, College of Science, Al-Jouf University, 2014 Sakaka, Al-Jouf, Saudi Arabia.

Lecturer (2003-2006) Full-time at Faculty of Education for Girls, Rafha, Saudi Arabia.

Lecturer (May 2001-2003) Full-time at Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Ph D. Scholarship holder (April 1997-2001) offered by “ Österreicherischer Akademischer Austauschdienst (ÖAD) Geschäftsstelle Wien, aölkerbastei 16, A-1010 Wien, at Full-time at Department of Statistics and Probability Theory, Vienna University of Technology, Wiedner Hauptstraße 8–10, 1040 Wien, Austria.

Assistant Lecturer (April 1993-1997) Full-time at Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Demonstrator (October 1986 - 1993) Full-time at Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

Academic record

- B.Sc. in Mathematics (1983-1986), Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt, with grade “Distinction with honour”, Joun 1986.

- Msc. in Mathematics (Statistics) (1987-1993), Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt. Thesis title: A comparative study of the choices of the smoothing parameters under optimal kernels, 1993.
- Ph. D. in Statistics (1997-2001), Department of Statistics and Probability Theory, Vienna University of Technology, Wiedner Hauptstraße 8–10, 1040 Wien, Austria. Thesis title: Aspekte der Schließenden Statistik für unscharfe Daten (Aspects of Statistical Inference for Non-Precise Data), 2001.

Areas of Interest

Nonparametric density estimation; Mixtures of distributions; Discriminant analysis; Bayesian analysis and Reliability; Probabilities; Statistical inferences for precise and non-precise data.

Puplications

- 1) (1994): Updating a nonlinear discriminant function estimated from a mixture of two Weibull distribution, *Mathl. Comput. Modeling* vol. 19, no. 11, pp. 41–51. (with Prof. Dr. Khalf E. Ahmad, Dept. of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt).
- 2) (1997): Approximate bayes estimation for mixtures of two Weibull distributions under type-2 censoring, *Journal of Statistical Computation and Simulation* vol. 58, no. 3, pp. 269–285. (with Prof. Dr. Khalf E. Ahmad and Dr. Hanem M. Moustafa, Dept. of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt).
- 3) (1999): On Parametric Inference for Fuzzy Data, published in the proceedings of SAD '99 conference “*Statistical Data Analysis*” in September 1999, Wrocław, Poland.
- 4) (2000): Fuzzy Bayesian Inference, 2000, presented during the IDA 2000 conference “*International Data Analysis*” in Innsbruck, Austria, in September 2000 (with Prof. Dr. Reinhard Viertl, Institut für Statistik, Wahrscheinlichkeitstheorie und Versicherungsmathematik, TU Wien, A-1040 Wien, Östria).
- 5) (2007): Reliability estimation based on general progressive censored data from the Weibull model: comparison between Bayesian and classical approaches, *METRON - International Journal of Statistics* vol. LXV, no. 2, pp. 1–19. (First author with Prof. Khalaf S. Sultan, Department of Statistics & Operations Research College of Science, King Saud University P.O. Box 2455, Riyadh 11451, Saudi Arabia <ksultan@ksu.du.sa>).
- 6) (2007): Asymptotic variance-covariance matrix of the ML estimates based on general progressive censored data using EM algorithm, *Journal of Probability and Statistical Science* vol. 5, no. 2, pp. 171–185.
- 7) (2013): Utilizing ordered statistics in lifetime distributions production: A new lifetime distribution and applications, *Journal of Probability and Statistical Science* vol. 11 no. 2, pp. 153–164.
- 8) (2014): A new two-parameter lifetime distribution with bathtub, up-bathtub or increasing failure rate function, *Journal of Statistics Applications & Probability* vol. 3, pp. 21–32, <http://dx.doi.org/10.12785/jsap/030103>.

- 9) (2014): Estimation of mixed exponentiated weibull parameters in life testing, The 4th International Conference for Young Researchers, Faculty of science, Assiut University, Assiut, Egypt. With Mohamad, M. A., Faculty of science, Assiut University, Assiut, Egypt.

Teaching

Universities: Assiut University; Cairo University Bani-Swief Branch; AL Minia University; South Valley University Sohag Branch; Al-Jouf University, 2014 Sakaka, Al-Jouf, Saudi Arabia.

Graduate courses: Biostatistics, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

Undergraduate courses:

Statistics: Biostatistics; Probability theory; Statistical Distributions; Reliability / Survival Analysis; Regression Analysis; Mathematical Statistics; Applied Statistics; and Elementary Statistics.

Computer Science: Introduction to Computer Science; Introduction to Microsoft Excel; Introduction to Microsoft Visual Basic; FORTRAN language programming; Basic language programming; C language programming; Algorithms.

Calculus: Differentiation and Integration levels one and two.

Algebra: Levels one and two; Abstract Algebra.

Geometrical Analysis: Levels one and two; Geometrical 3D-Space.

Numerical Analysis: Level one; Operation research; Optimization.

Differential Equations: Levels one and two.

Thesis Supervisor

- MSc. (2001–2004) On Statistical Inference for Non-Precise Data.” By Ahmed Ali MAhyoub Al-Mujahid B. Sc., Faculty of Science Taiz University, Taiz, Yemen, supervised by Professor Dr. Khalaf E. Ahmad and Dr. Ayman M. Abd-Elrahman, Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.
- Ph. D. (2013–) On Finite Mixture of the Exponentiated - Weibull Distributions.” By: Mohammed Atef Mohammed Abdallah. Supervisors: Prof. Dr. Khalaf E. Ahmad, Prof. Dr. Zainhom F. Jaheen and Dr. Ayman M. Abd-Elrahman, Department of Mathematics, Faculty of Science, Assiut University, Assiut 71516, Egypt.

References:

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