

1. EDUCATION

PhD. In Mathematical Statistics with average 3.8 /4 **2004-2008**

University of Jordan, mathematics and statistics department.

Dissertation: "Efficiency of Censored Samples Based on Entropy Measures".

Supervisor: Prof. Adnan M. Awad.

MSc. In Applied Mathematics (Fourier Analysis) with average 86.7% **2000 - 2003**

Al-Yarmouk University/Jordan. Mathematics department.

Thesis: "Properties of $SL(2, \mathbb{R})$ the Special linear group".

Supervisor: Prof. Mohammad Younis.

BSc. In Mathematics with average 83% **1996 -2000**

Al-Yarmouk University/Jordan. Mathematics department.

2. ACADEMIC EXPERIENCE

- Effat University, KSA, Assistant Professor at the electrical and computer engineering department. **Sep. 2011-present**
- University of Tabuk, KSA, Assistant Professor at the department of mathematics and statistics. **Sep. 2010 – June 2011**
- Assistant Professor at the basic sciences department/Petra University, Jordan, (2008-2010). **Sep. 2008 – June 2010**

3. Other Duties and Responsibilities (Currently at Effat University):

- Summer Internship Supervising.
- Advising ECE students.
- Evaluating students' projects and presentations.
- Member of the research committee at the electrical and computer engineering department.
- Member of the university research ethics committee.

- The vice chair of the electrical and computer engineering department.
- Involved in the academic accreditation process at the ECE department and holding a NCAAA certificate.
- ECE department general secretary.
- Math and Stat curriculum developer for undergraduate and graduate program.
- Developing mathematics courses curricula as per the international standards.
- Reviewer for Statistical Papers Journal, *Springer*.
- Reviewer for the American Statistician Journal, *Taylor and Francis*.

4. Courses Taught:

- Probability Theory
- Inferential Statistics
- General Statistics
- Statistics for Engineering
- Actuarial Mathematics
- Mathematics for Management
- Mathematics for graduate studies
- Mat lab and Numerical Analysis
- Differential Calculus
- Integral Calculus
- Intermediate Calculus
- Linear Algebra
- Discrete Mathematics
- Bio-Statistics
- Statistics for graduate studies

5. Awards and Honors:

The winner of Queen Effat Award of Excellence in Research for the year 2015-2016.

6. Areas of Research Interest: Information Theory, Censored Data, Image Processing.

Journal Publications:

1. *Stopping criterion for anisotropic image diffusion (2016). Optik- International Journal for Light and Electron Optics 127 (1), 156-160, ELSEVIER.*
2. *Average Entropy: A New Uncertainty Measure with Application to Image Segmentation (2016). The American Statistician, 70(1), 18-24 Taylor & Francis, American Statistical Association.*
3. *A measure of discrimination between two double truncated distributions (2015). Communications in Statistics – Theory and Methods Journal 44(9), 1797- 1805, Taylor & Francis.*
4. *Efficiency Estimation of Type-I Censored Sample from Weibull Distribution Based on Sup-entropy (2015). Communications in Statistics-Simulation and Computation, 46(4) 2678-2688 Taylor & Francis.*
5. *Stopping Criterion for Linear Anisotropic Image Diffusion: A Fingerprint Image Enhancement Case (2016), EURASIP Journal on Image and Video Processing, 6, 1-20, Springer US.*
6. *Deriving the efficiency function for type I censored sample from Pareto distribution using sup-entropy (2014). IMA Journal of Mathematical Control and Information, 33(2)231-237 Oxford University Press.*
7. *Accretion of Phantom Energy by Bardeen Black Hole (2014). International Journal of Theoretical Physics, 53(6), 1953-1960, Springer US.*
8. *Efficiency of censored samples from exponential distribution based on sup-entropy (2012). Journal of Statistics. Journal of Statistics 19(1),*

43-53.

9. *Testing the Equality of Two Exponential Distributions (2016). Communications in Statistics-Simulation and Computation, 45(7) 2249-2256, Taylor & Francis.*
10. *Efficient solution for finding Hamilton cycles in undirected graphs, Springer plus, 5(1), (2016), Springer Germany.*
11. *Response to Average Entropy Does Not Measure Uncertainty (2017). The American Statistician, 71(1), 91- 91, Taylor & Francis, American Statistical Association.*
12. *Information Theory and Censoring the Half-Normal Distribution, under review in Communications in Statistics – Theory and Methods Journal.*
13. *Applying Information Theory in Censoring the Normal Distribution, under review in Problems of Information Transmission, Springer.*
14. *On Integer Partition, under review in International Journal of Computer Mathematics: Computer Systems Theory Taylor & Francis.*
15. *The Geometric Entropy, under review in IMA Journal of Mathematical Control and Information, Oxford University.*
16. *A Modified Shannon Entropy Measure for Improved Image Segmentation, under review in IET Image Processing, IEEE.*
17. *The Generalized Average Entropy, under review in IMA Journal of Mathematical Control and Information, Oxford University.*
18. *New Overlapping Measure with Application on Testing Similarity of two Exponential Distributions, under review in Communications in Statistics -Simulation and Computation, Taylor & Francis.*

Conference Publications:

1. *“Connected solid-state lighting, the way for the IoT Revolution”, 14th Learning and Technology Conference, IEEE (2017). IOT: Internet of Things. (Accepted)*
2. *“Estimating the Income Distribution of Some Islamic Countries Based on Entropy Measures”, The 3rd Islamic Finance Conference 2017. (Accepted)*

7. Workshops: I have attended several workshops during my work at Effat university. Here I mention some of them

- Teaching & Learning within NCAAA Framework.
- Course Reports and E-course Files – Tutorial Sessions.
- Blackboard.
- ABET and NCAAA Workshops.

8. References:

- Prof. Adnan M. Awad / Mathematics Department, University of Jordan.
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- Prof. Fuad Kittaneh / Mathematics Department, University of Jordan.
[**fkitt@ju.edu.jo**](mailto:fkitt@ju.edu.jo)
- Prof. Basem Masadeh / Chairman of Mathematics and Statistics Department, Tabuk University. [**bmasaedeh@ut.edu.sa**](mailto:bmasaedeh@ut.edu.sa)
- Prof. Mohamed Shehata/ Chairman of ECE Department, Effat University.
[**mshahata@effatuniversity.edu.sa**](mailto:mshahata@effatuniversity.edu.sa)

All supporting documents will be provided upon request