

1-3-2016

## CURRICULUM VITAE

**Dr. ADNAN M. AWAD**



### PART 1: PERSONAL DETAILS

<b>Name</b>	: Adnan Mohammed Ahmad Awad	<b>Present Position / Work Address:</b>  Professor of Math. & Stat. Department of Mathematics, Faculty of Science, The Jordan University, Amman 11942, Jordan.
<b>Academic Rank</b>	: Professor	
<b>Year Rank Obtained</b>	: 1988	
<b>Specialization</b>	: Mathematical Statistics	
<b>Languages</b>	: Arabic, and English	
<b>Nationality</b>	: Jordanian	
<b>Place and Date of Birth</b>	: Innaba, 1/1/1947	
<b>Marital Status</b>	: Married	
<b>Number of Children</b>	: 9 (5 Males and 4 Females)	
<b>Home Tel.</b>	: 00-962-6-5346532	
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<b>Web Site Address:</b> <a href="http://eacademic.ju.edu.jo/awada/default.aspx">http://eacademic.ju.edu.jo/awada/default.aspx</a> <a href="https://djasljsa.academia.edu/AdnanAwad/Papers">https://djasljsa.academia.edu/AdnanAwad/Papers</a> <a href="https://www.researchgate.net/profile/Adnan_Awad">https://www.researchgate.net/profile/Adnan_Awad</a> <a href="http://scholar.google.com/citations?hl=en&amp;user=JOPMMaUAAAAJ">http://scholar.google.com/citations?hl=en&amp;user=JOPMMaUAAAAJ</a>		

## PART 2 : QUALIFICATIONS

### Academic Qualifications

Degree	University	Field & Notes	Year
<b>Ph.D.</b>	Yale University, New Haven, Ct., USA.	Field : Statistics Thesis Title: " A Martingale Approach to the Asymptotic Normality of Posterior Distributions." Supervisor : Professor John Hartigan. Honors Grade in each of the Ph.D. credit courses. Scholarship from Yarmouk University, Jordan, to get Ph.D. in Statistics.	1978
<b>M. Phil.</b>	Yale University, New Haven, Ct., USA.	Field : Statistics Note: A transfer credit of one year was approved for the graduate work at the University of Jordan.	1977
<b>M. Sc.</b>	University of Jordan, Amman, Jordan.	Field : Mathematics Thesis Title: " On Non-central Distributions and Approximations to Distributions of the Randomized Gamma Type" Supervisor : Professor Adnan Ifram . Ranked first with distinction. Cumulative average: 92.5%	1974
<b>B. Sc.</b>	University of Jordan, Amman, Jordan.	Field : Mathematics Ranked first with distinction. Cumulative average: 91.4% Scholarship from Ministry of Education, Jordan, to get B.Sc. in Mathematics.	1971
<b>High School Diploma</b>	Ministry of Education, Jordan	Field : Science Stream Cumulative average: 85.4%	1967
<b>School Education</b>	1965-1967 : Grades 11 and 12, Hisham ben Abdulmalik School, Jareko, Jordan.		
	1964-1965 : Grade 10, Aqabqt Jaber Secondary School, Jordan.		
	1961-1964: Grades 7 - 9, Aqabat Jaber Preparatory School, Jordan.		
	1953-1961: Grades K1, K2 and 1 - 6, Y.M.C.A. School, Aqabat Jaber, Jordan.		

### Educational & Teaching Qualifications

Attended training teaching courses or workshops

- Temporary Teaching Licence, Ministry of Education, Jordan, 1971
- Three training programs on teaching modern mathematics, 1971-1972, Ministry of Education, Jordan.
- A six weeks training program for Secondary School Teachers: Teaching of Modern Mathematics, 1972, American University of Beirut, Lebanon.
- Educational Licence, Ministry of Education, Jordan, 1975
- Basic Web Technology Skills For Courseware Development, 8-12 October 2000, UNESCO SPPD Project and Jordan University, Jordan.
- IDAMS statistical package using VSAT, ALECSO and Jordan TV, 25—26-2004
- IDAMS statistical package, ALECSO and Cairo University, 29-5 to 2-6-2004

## **PART 3 : JOB HISTORY**

### **Full Time Jobs**

#### **1971-1976: Ministry of Education, Jordan**

- High School Mathematics Teacher, **Al-Taj Secondary School**, Amman, (Starting 27/10/1971)
- High School Mathematics Teacher, **King Hussain Collage**, Amman, (Starting 1/10/1973)
- Community Collage Lecturer, **Amman Community Collage**, Amman, (Starting 1/10/1974)

#### **1978-1986 : Departments of Mathematics & Statistics, Yarmouk University , Irbid, Jordan:**

- Assistant Professor (Starting 25/11/1978),
- Associate Professor (Promotion date 16/9/1983) .

#### **1986- ON : Department of Mathematics, Jordan University, Amman, Jordan.**

- Associate Professor (Starting 6/9/1986), (Employment # 100745).
- Professor (Promation date 2/10/1988), (Tenureship date 13/9/1992).

### **Sabatical Years**

- 1984-1985 : Visiting Professor, Department of Mathematics, **Kuwait University**, Kuwait. On Sabbatical leave from Yarmouk University. (Starting 1/9/1984)
- 1993-1994 : Professor, Director of the Department of Math. and Computer Science, **Jordan University for Women** (Now: **Petra University**), Amman, Jordan. On Sabbatical Leave from Jordan University. (Starting 1/9/1993)
- 1999-2000: Department of Mathematics, **Al albayet University**, Al Mafraq, Jordan. (On Sabbatical Leave from University of Jordan.)
- 2006-2007: Department of Mathematics, **Al Zaytonneh University**, Amman, Jordan. (On Sabbatical Leave from University of Jordan.)
- 2013-2014: Department of Mathematics, **Al Balqa Applied University**, Alsalt, Jordan. (On Sabbatical Leave from University of Jordan.)

### **Academic Promotions**

- 25/11/1978 Appointment in Yarmouk University in the rank of Assistant Professor
- 16/9/1983 Promotion to the rank of Associate Professor, Yarmouk University.
- 25/11/1986 Third year in the rank of Associate Professor, Jordan University.
- 31/1/1988 One credited year in salary and in rank, Jordan University.
- 3/4/1988 Change of status to class A in the rank of Associate Professor, Jordan University.
- 2/10/1988 Promotion to the Professorship rank ,Jordan University.
- 13/9/1992 Tenureship , Jordan University.

### **Administrative Jobs**

- Head of Department of Statistics at Yarmouk University (1983-1986: 3 years).
- Head of Department of Mathematics at University of Jordan (1989-1990: 1 year).
- Head of Department of Mathematics and Computer Science at Jordan University for Women, (Petra University), ( 1993-1994: 1 year).
- Vice Dean of the faculty of Graduate Studies, University of Jordan (1998-1999:1 year).
- Vice Dean of the Faculty of Research and Graduate Studies, Al-albayt University (1999-2000: 1 year).
- Chairman of Central Tenders Committee, Jordan University (2002 :3 months).
- Main Library Director, Jordan University ( ???? , 6 months).

### **Part Time Jobs**

- Lectuor, Mathematics Department, **Jordan University**, 1974-1976.
- Grader, Department of Statistics, **Yale University**, 1977.
- Associate Professor, Mathematics Department, **Jordan University**, Summer of 1986.
- Professor, Mathematics Department, **Amman Private University**, Amman, Jordan, Summer 1991
- Professor, Mathematics Department, **Hashemite University**, Zarqa, Jordan, Summer of 1997

## **PART 4 : MEMBERSHIP IN PROFESSIONAL BODIES**

### **Membership of Institutions**

- Mathematical Association of America 1976-1979.
- Institute of Mathematical Statistics 1976-1980.
- Yale Science and Engineering Association, 1982-1987.
- Islamic Studies and Research Association, 1982-1985.
- International Statistical Institute, 1991-2006
- Jordanian Mathematical Association, 1992-1995
- American Mathematical Association, 1997-2016

### **On Editorial Boards of Research Journals**

- Aligarh J. of Statistics , Aligarh Muslim University, India, 1998-...
- Journal of Statistics , Lahore University, Pakistan 2009 - ...
- Pakistan Journal of Statistics and Operation Research, Punjab University, Pakistan 2010 - .... .
- Pakistan Journal of Statistics 2012-...
- International Journal of Advanced Statistics and Probability 2013-....
- DIRASAT (Scientific Journal Published by University of Jordan, Jordan), (2 years)
- Al- Manarah (Scientific Journal Published by Al albayet University, Jordan), (1 year)
- AL-Balqa (Scientific Journal Published by Amman Private University, Jordan), (2 years)

## **PART 5 : PROFETIONAL INTERESTS & CONFERENCES**

### **Research Interests**

- Information Theory : Measures & Statistical Applications
- Statistical Inference : Classical & Bayesian
- Probability Theory : Distributions Theory, Asymptotic Theory and Stochastic Processes
- Life Testing and Reliability Theory
- Optimality of Censoring Schemes
- Computer Intensive Statistical Methods
- Statistical Applications: Prediction Analysis, Goodness of Fit, Bio-equivalence Studies.

### **Educational Interests**

- Development of programmed teaching material for open universities.
- Development of teaching methods and aided computer instructing materials.
- Training teachers.
- Writing text books in both languages Arabic and English
- Translating Mathematics and Statistics text books from English to Arabic.

### **Conferences, Workshops & Seminars**

Participated and presented papers in

- 23 Scientific Conferences
- 16 Workshops and conferences on education and information technology
- 3 One Day Seminars
- Several Departmental Seminars

## **PART 6 : GRANTS & HONORS**

### Research Grants

- On the Akaike Information Criterion, Research #236, Meeting #10/91-92, Research Council, University of Jordan, Amman, Jordan, 1992-1994
- On Statistical Computer Intensive Methods, Research #9/3/94, Meeting #3/94-95, Research Council, University of Jordan, Amman, Jordan, 1995-1997.
- Mathematical Applications of Mathematica 4, 2000, Research Council, University of Jordan, Amman, Jordan,

### Honors, Prizes, Medals & Awards

- High teaching evaluation at the Faculty of Science, Yarmouk University, Irbid, Jordan, 1983
- High research evaluation at the Faculty of Science, Yarmouk University, Irbid, Jordan, 1984
- Abdul-Hammed Shoman Prize for Young Arab Scientists in Mathematics and Computer Science, Amman, Jordan, 1987

## PART 7 : EXPERIENCES

### Experience in Statistical Consultations

Performed consultations in different fields such as education, bioavailability, medicine, engineering, biology, business, economy, etc.

### Experience in Information Technology

- Prepared six computerized educational packages for teaching Mathematics and Statistics. They are based on Mathematica Packages.
- Prepared three TV educational programs
- Have a good command of the following computer packages:

Mathematical Packages	Statistical Packages	Word Processors
Mathematica 10.3.1.0	NCSS 2000	Microsoft Word 2000
MathCAD 2001	S-Plus 2000	Scientific Work Place 4
Derive 2	MINITAB 13	
Maple V	SPSS 10	
MatLab 6	IDAMS	
	Statistica	

### Teaching Experience

38 years at University level, 4 years at High School level and 1 year at Community Collage level. During these years I taught the following courses:

#### At the Undergraduate Level

**Mathematics Courses:**

General Mathematics (1-2), Calculus (1-3), Intermediate analysis, Mathematical methods, Finite Mathematics, Foundation of Mathematics, Engineering Mathematics (Differential Equations and Linear Algebra), Number Systems, Principles of Mathematics, Principles of geometry, Mathematical Computer Packages (MATHEMATICA 9), History of Mathematics, Seminar.

**Statistics and Probability Courses:**

Statistical methods (1-2), Statistical Lab (1-3), Probability Theory, Mathematical Statistics, Sampling Methods, Time Series, Cluster Analysis, Stochastic Processes, Nonparametric methods, Analysis of categorical data, Bayes methods, Regression analysis, Experimental design, Statistics for Administration, Biostatistics, Applied Probability, Information theory.

**Actuarial Science Courses:**

Mathematics for Business, Financial Mathematics, Actuarial Mathematics, Actuarial research project. Actuarial Statistical Packages.

**At the Graduate Level (M. Sc. and Ph.D.)**

Probability Theory, Information theory, Mathematical statistics, Statistical decision theory, Reliability Theory, Special topics in statistics: (Prediction analysis), Applied statistics , Regression analysis , Advanced Financial Mathematics, Actuarial Stochastic Models , Seminar, Research methodology.

**Experience of Guiding & Evaluating Research**

- Guiding and supervising the research work of Ph. D students of the University of Jordan, Jordan. Already seven candidates have received Ph.D. degree under my supervision.
- Guiding and supervising the research work of M. Sc. Already 29 ( 4 at Yarmouk University and 25 at University of Jordan) candidates have received M. Sc. degree under my supervision.
- Member of several of defense committees of M. Sc. and Ph. D. theses

**Experience as a Reviewer and Referee****MathReview :**

Reviewer for Mathematical Reviews, USA (American Mathematical Society). About 146 reviews have been published since 1985

**Scientifics Research**

Acting as a referee for the following reputed national and international journals::

- International Statistical Review
- Annals of the Institute of Statistical Mathematics, Institute of Statistical Mathematics
- Communications in Statistics, Part A - Theory and Methods
- Communications in Statistics, Part B – Simulation and computation
- Journal of Multivariate Analysis
- Australian Journal of Basic and Applied Sciences
- Quality Technology & Quantitative Management
- Aligarh Journal of Statistics
- Pakistan Journal of Statistics
- Pakistan Journal of Statistics and Operation Research
- Journal of Statistics
- Jordan Journal of Mathematics and Statistics
- Dirasat (Natural Science).
- Abhath Al-Yarmouk J. Pure Science and Engineering Series.
- Mu'ta J. For Research and Studies, Natural and Applied Sciences Series.

#### **Prizes**

- Refereeing works submitted to the prize of Al-Shaikh Abdulla Almbark Alsabah for pioneer scientific work of young Arab scientists, 1989.
- Refereeing works submitted to the Abdul-Hammed Shoman prize for young Arab scientists in mathematics, statistics, information and computer science, 1992.
- Refereeing works submitted to the prize of the excellent research paper in Mathematics, Ministry of Research and Higher Education, Jordan, 2004
- Refereeing works submitted to the prize of the excellent researcher in Statistics, Ministry of Research and Higher Education, Jordan, 2005

#### **Promotions**

Reviewing several promotion works to faculty members for several universities e.g. JUST (Jordan University of Science and Technology), Gaza University, Damascus University, Al Mousel University, Dyala University, Bagdad University, King Saud University, Al-Isra University, Jadara University, Al-Quds Open University

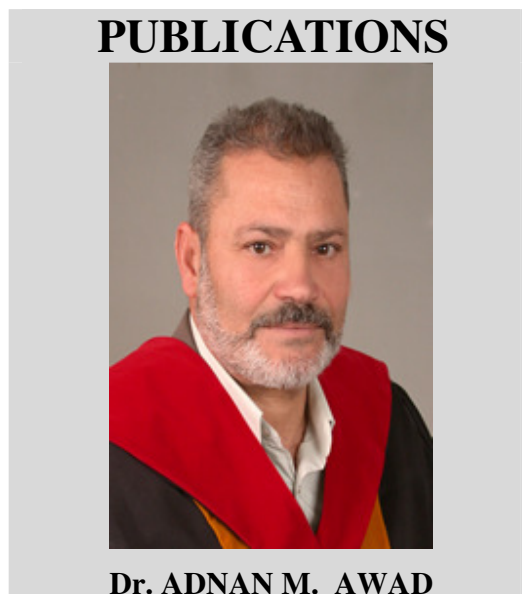
#### **Books**

- Refereeing and evaluating 18 mathematics and statistics books

## **PART 8: COMMUNITY AND UNIVERSITY SERVICES**



- Training School Teachers in Jordan and Oman
- Introduced computerized educational packages in Calculus and Statistical Methods to university faculty members at several universities in Jordan, Syria, Egypt, and Lebanon.
- Member of 4 editorial boards of international conferences
- Member of 7 international (Arab States) scientific/educational committees
- Member of 5 national (Jordan) educational committees
- Member of 4 special local advisory committees
- Consultant of Secondary Education Textbooks and Teacher Guides Instructional Material Development, 11 Aug. to 8 Sep 2007, UNESCO, UNICEF and Ministry of Education of Afghanistan.
- Member of several committees at university, Collage and Department levels at Yarmouk University and The University of Jordan.
- Member of the committee of priorities of scientific research in basic sciences, Jordan.



## RESEARCH PAPERS

2016

1. Awad, A. M. 2016, On Optimal Designs of Some Censoring Schemes , Pak. J. Stat. Oper. Res., PJSOR, Vol. XII, No. 1, pp. 1-23

2014

2. Mohammed E.M. Gobar, Eihab B.M. Bashier, Adnan M. Awad: *THE BEST SAMPLE SIZE IN APPROXIMATING SOME SAMPLING DISTRIBUTIONS*. International Journal of Mathematical Science and Engineering Applications. 05/2014; 8(III):179-192.
3. Mohammed E.M. Gobar, Eihab B.M. Bashier, Adnan M. Awad, 2014, *Information measures and some distribution approximations*. Journal of Advances in Mathematics. 02/2014; 6(3):1008-1016.

2013

4. Adnan M. Awad, 2013, Informational Criterion of Censored Data Part I: Progressive Censoring Type II with Application to Pareto Distribution, Advances in Statistics and Optimisation . Editor: A. H. Khan, and R. Khan., pp 10 – 25 , R. J. Enterprises Publisher, New Delhi, India

**2012**

5. Awad, A. M., 2012, Application of Information Theory to Bio-Equivalence Problem, *J. of Bioequivalence & Bioavailability*, 4 (2) ,10-13

**2011**

6. Bayoud, H. A. and Awad, A. M., 2011, Performance of several bioequivalence metrics for assessing the rate and extent of absorption, *J. of Bioequivalence & Bioavailability*, 3(7), 174-177
7. Adnan M. Awad. (2011), Statistical View of Information Theory. In *International Encyclopedia of Statistical Science*, Editors: Lovric, Miodrag, Springer-Verlag ISBN 978-3-642-04897-5, pp. 1473-1475

**2010**

8. Alzghoul, A. and Awad, A. M., 2010, Normality Test Based on a Truncated Mean Characterization, *Communications in Statistics - Simulation and Computation*, 39, 1818-1843

**2009**

9. Haj Ahmad, H. and Awad, A., Optimal Two-Stage Progressive Censoring with Exponential Life-times, *Dirasat (Science)*, 36, 2, 134-144,2009
10. Haj Ahmad, H. and Awad, A., Optimality Criterion for Progressive Type-II Right Censoring Based on Awad Sup-entropy Measures. *Journal of Statistics*, 16, 2009, 12-27 [gcu.edu.pk](http://gcu.edu.pk)

**2007**

11. Abu Hammad, M. and Awad, A. M. Distribution of Shannon Statistic from Normal Sample, *Metron*, LXV, n.3., , 259-275, 2007

**2001**

12. Raqab, M. and Awad, A., A note on characterization based on Shannon entropy of record statistics. *Statistics* 35, 411-413, 2001. MR1880172 (2002h:62010)

**2000**

13. Awad, A. and Raqab, M., Prediction intervals for the future record values from exponential distribution: Comparative study. *J. Statist. Comput. Simul.* 65, 4, 325-340,2000. MR1818980
14. Raqab, M., and Awad, A., Characterization of the Pareto and related distributions, *Metrika*, 52, 1, 63-67, 2000. MR1791924 (2001i:62010)
15. Awad, A. , Jordan experience with computer based instruction in teaching calculus and statistical methods, *Proceedings of International Conference on Technology in Mathematics Education*, Lebanese American University, 170-177, July 5-7, 2000, Beirut, Lebanon.

**1997**

16. Azzam, M. M and Awad, A. M., Application of the Shannon entropy to type II censoring in life testing experiments, *J. of Fractional Calculus*, 11, 103-112, 1997. MR1451549

**1996**

17. Awad, A. M., Properties of the Akaike information criterion, *Microelectronics and Reliability*, 36, 4, 457-464, 1996.
18. Azzam, M. M and Awad, A. M., Entropy measures and some distribution approximations, *Microelectronics and Reliability*, 36, 10, 1569-1580, 1996
19. Awad, A., and Al-Sarie, T., Clusters of entropy measures based on binomial distributions, *Abhath Al-Yarmouk J. Pure Science and Engineering Series* , 5,1, 31-69, 1996.
20. Awad, A., Entropy of a partition and efficiency of a sample, *Abhath Al-Yarmouk J. Pure Science and Engineering Series* , 5, 1, 9-30, 1996.

**1995**

21. Awad, A. M., On the Tukey measure of information, *Mu'ta J. For Research and Studies, Natural and Applied Sciences Series*, 10, No. 6, 1995, 89-103

**1993**

22. Awad, A., On the Fisher Information; 1993, *J. Information and Optimization Sciences*, 14, 1, 95-110. MR1215831 (93m:94010)
23. Azzam, M. Awad, A. and Alawneh, A., On the characteristic properties of the power series distributions, 1993, *Dirasat, (Science)*, 20, B, 7-17. MR1244189 (94e:62015)

**1992**

24. Awad, A. Conditional Levy continuity theorem. (1992), *Univ. Nac. Tucuman Rev. Ser. A*, 29, 2, 1-6. MR1296649 (95f:60027)
25. Awad .A. and Salah, M. On the Laubscher inconsistency problem, (1992), *Univ. Nac. Tucuman Rev. Ser. A*, 29, 2, 49-59 . MR1296653
26. Awad, A. On the Fisher B-sufficient partition 1992, *Communication in Statistics (A). Theory and Methods*. 21(9), 2645-2664. MR1186072 (93k:62009)
27. Awad, A., Generalization of Von-Karman Function, 1992 *Mu'ta J. For Research and Studies, Natural and Applied Sciences Series*, 7, 1, 31-59.

**1991**

28. Awad, A. The Shannon entropy of generalized gamma and of related distributions.(1991). *Proceedings of the first Jordanian Mathematics Conference, Jordan*, PP.13-27.

**1990**

29. Shayib, M., and Awad, A. Prediction interval for the difference between two sample means from exponential populations: A Bayesian treatment, 1990, Pakistan J. of Statistics 6(1) 1-23. MR1092896
30. Awad, A. Sarie, T. Azzam, M. Simulated distribution of the Kullback-Leibler information measure, 1990, Communication in Statistics (B). Simulation 19(4), 1319-1338.
31. Hussein, D., Awad, A., Azzam, M. Some results on the Beurling spaces ,1990, Dirasat, B, (Science) 17 (2) 62-66. MR1180837 (93m:46041)

**1989**

32. Awad, A. and Eideh, A. Homogeneity test for r-sample from power series distributions, 1989, Dirasat (Science) XVI (2) 50-66.
33. Shaib, A. Awad, A. Predictive measure of reliability ,1989, Dirasat (Science) XVI (2) ,67-78.
34. Azzam, M. Sarie, T, and Awad, A. Comparisons of the power of three Goodness-of-fit tests for normality. 1989, Dirasat (Science) XVI (2), 79-91.
35. عوض، عدنان : الاحصاءات الكافية ومقاييس المعلومات، المجلد 16، العدد 8، ص ص 7-20 دراسات،

**1988**

36. Awad, A. Beta-informational sufficient partition, 1988, IMA. J. of Mathematical Control & Information 5, 1, 1-10. MR0936294 (89c:94020)
37. Awad. A. Application of informational test. 1988, IMA. J. of Mathematical Control & Information 5, 3, 233-242. MR0958013 (89g:94015)
38. Awad, A. Finite termination of the generalized SPRT if the model is incorrect , 1988, Dirasat (Science) XV (4) 203-214.
39. ابو صالح، محمد، و عوض، عدنان، و الاسعد، عمر، بين المتنبئ والابيوردي: دراسة ادبية احصائية مقارنة، مجلة جامعة الملك عبد العزيز: العلوم التربوية، المجلد 1، ص ص 273-278 ، 1988.

**1987**

40. Awad, A., and Abu-Taleb, A. Informational relationship measures. 1987, IMA J. of Mathematical Control and Information 4, 1, 13-23. MR0909189 (88i:94007)
41. Awad, A., and Alawneh, A., Application of entropy to a lifetime model. 1987, IMA J. Mathematical Control and Information 4, 143-147. MR0909184
42. Awad, A., and Bakir, S. Predictive density functions: A comparative study. 1987, Pakistan J. of Statistics, 3(1) A 91 –118. MR0906012 (88g:62075)
43. Awad, A., and Hussein, D. Independence inequality of entropies, 1987, IMA J. of Mathematical Control and Information 4, 4, 281-292. MR0919670 (88k:94012)
44. Awad, A. and Sarie, T. A comparative study of tests of independence, 1987, Communication in Statistics, Simulation (B) 16 (3), 645-671. MR0918600
45. Awad, A. Azzam, M., and Hussein, D., Sup-entropy of degree alpha . 1987, The Arabian J. for Science and Engineering 12(4) 473-480. MR0914605 (89a:94010)
46. Shayib, M., and Awad, A. Prediction intervals for the r-th order statistic: Acomparative study. 1987, Dirasat, (Science) XIV (1) 7-16.

47. Bakir, S., and Awad, A. Power comparisons of simultaneous test procedures for homogeneity in contingency tables. 1987, *Dirasat (Science)*, XIV(1), 53-81
48. Sarie, T. and Awad, A, On inverse moments of the positive hypergeometric distribution. 1987, *Dirasat (Science)* XIV (12) 49-60.
49. Awad, A. A statistical information measure. 1987, *Dirasat (Science)* XIV (12) 7-20.
50. Azzam, A. Awad, A. and Sarie, T. A nonparametric test for ordered alternatives in a randomized block design. 1987 *Dirasat (Science)* XIV (12), 39-47.

### 1986

51. Awad, A., and Marzuq, M., Characterization of distributions through maximization of alpha-entropies. 1986, *IMA J. Mathematical Control & Information*, 3,1, 1-7. MR0997191 (90a:62038)
52. Awad, A., and Gharraf, M. Estimation of  $P(Y < X)$  in the Burr Case: A comparative study. 1986. *Communication in Statistics, Simulation and Computation*, B, 15, (2), 389-403. MR0848181 (87h:62040)
53. Shayib, M., Awad, A., and Dawagreh, A. Large sample prediction intervals for a future sample mean: A comparative study 1986, *J. Statistical Computation and Simulation*, 24, 3-4, 225-270. MR0969727 (89k:62048)
54. Awad, A. Conditional moment prediction, 1986, *Pakistan J. of Statistics*, 2, 2, A, 55-67. MR0909875
55. Awad, A., and Shayib, M. Tail area revisited, 1986, *Communication in Statistics, Simulation and Computation* 15(4), 1215-1234. MR0876791
56. Awad, A., and Salah, M. On normal approximation for the noncentral F-distribution. 1986, *J. of Univ. of Kuwait (Science)*, 13(2), 143-149.
57. Awad, A. Large sample prediction intervals: A variance stabilizing approach. 1986, *Dirasat (Science)* XIII (7) 7-25.

### 1985

58. Kambo, N. and Awad, A. Testing equality of location parameters of K exponential distributions. 1985, *Communication in Statistics, Theory and Methods*. A, 14, (3), 567-583. MR0790227 (87i:62047)
59. Awad, A. Shayib, M, and Dawagreh, A. Large sample prediction intervals for future geometric mean: A comparative study. 1985 *Communication in Statistics, Simulation and computation*, 14 (4) 983-1006.
60. ابو زينة، فريد، و عوض، عدنان جمع البيانات واختيار العينات في البحوث والدراسات التربوية والاجتماعية، ابحاث اليرموك، سلسلة العلوم الانسانية والاجتماعية، المجلد 1، العدد 2، ص ص 65-98، 1985
61. Awad, A. and Fayoumi, M., Estimation of  $P(Y < X)$  in case of the double exponential distribution. (1984). *Proceedings of the Seventh Conference on Probability Theory, Brasov/Romania*, VNU Sci. Press, Utrecht, 1985, 527-531. MR0867471 (88b:62050)

**1984**

62. Ahmed, M., Awad, A. and Aziz, E., Maximum likelihood estimate of the exponential distribution using a partially ordered sample ,(1983). *Developments in Statistics and its applications*, (Riyadh, 1983), The Proceedings of the first Saudi Symposium on Statistics and its Applications, King Saud Univ. Lib., Riyadh, 1984, 361-372. MR0825074
63. Awad, A. and Kambo, N. S., Prediction interval for future sample mean from an exponential distribution with a shifted parameter, (1983). *Developments in Statistics and its applications*, (Riyadh, 1983), The Proceedings of the first Saudi Symposium on Statistics and its Applications, King Saud Univ. Lib., Riyadh, 1984, 445-457. MR0825076
64. Awad, A. Large sample prediction intervals. 1984, *Stoch. Proc. Appl.* 18(2), 199-199.

**1983**

65. Awad, A. and Abu-Salih, M. Bayes estimate of reliability of k-out-of-m systems in the exponential model. 1983, *J. of the University of Kuwait (Science)*. 10(1), 1-8. MR0713193 (84k:62141)
66. Awwad, M and Awad, A. Predictive value secondary school English achievement toward University performance, (1983) *Dirasat (Humanities)*, X (1), 7-20.

**1982**

67. Awad, A. Estimation of the multiple correlation coefficient. 1982, *J. Coll. Sci., King Saud University*. 13 (2) 339-345.
68. Azzam, M., Awad, A., and Hamdan, M., The probability of winning a game of squash. 1982, *Arab J. of Mathematics* 3(1&2) 15-22. MR0836804
69. Awad, A. On testing the noncentrality parameter, 1982 ,*Dirasat (Natural Sciences)* IX (1) 15-20

**1981**

70. Awad, A. Conditional central limit theorems for martingales and reversed martingales. 1981, *Sankhya*, 43(A), (1), 100-106. MR0656271 (84a:60032)
71. Awad, A. Asymptotic normality of some estimators. 1981, *Calcutta Statistical Association Bulletin* 30(117-118) 13-22. MR0636541 (82m:62042)
72. Awad, A. Asymptotic normality of the posterior distribution of an average of parameters. 1981, *Scand. J. Statistics*, 8, 4, 247-249. MR0642806 (82m:62043)
73. Awad, A. Azzam, M., and Hamdan, M. Some inference results on  $\Pr(X < Y)$  in the bivariate exponential model. 1981, *Communication in Statistics, Theory and Methods*, A. 10(24) , 2515-2525. MR0642577 (82m:62119)
74. Awad, A. Azzam, M., and Hamdan, M., Power series mixture of gamma distribution. 1981, *Iraqi J. Science* 22(1) 108-121. MR0632144 (83a:62043)
75. Abu-Salih, and Awad, A. Comparison of different tests for the shape parameter of a Pareto model. 1981, *Iraqi J. Science* 22(1) 122-133. MR0632145 (82m:62051)
76. Awad, A. Bayes prediction intervals for reliability models. 1981, *Dirasat (Natural Sciences)* 8, (1) ,7-15. MR0645805 (83j:62142)

77. Azzam, M., and Awad, A., Prediction intervals for a future sample mean and for the difference or ratio of two future sample means. 1981, *Dirasat (Natural Sciences)*, VIII (2) 21-27. MR0679407 (83m:62054)

#### 1980

78. Awad, A. Consistency and asymptotic normality of posterior distributions. 1980, *Revista Colombiana de Matematicas*. XIV 43-57. MR0581479 (81j:62047)
79. Awad, A. Random sum representation of the noncentral chi-square random variable. 1980, *Revista Colombiana de Matematicas*, 14, 2, 101-110. MR0591659 (81k:62016)
80. Awad, A. Remark on the characteristic function of the F-distribution. 1980, *Sankhya*, 42(A)(1&2) 128-129. MR0637998 (82m:62025)
81. Awad, A. and Salah, M. Partial sum approximation for the distribution function of random sums. 1980, *Iraqi J. Science*, 21(4), 817-838. MR0628088 (82h:62029)
82. Abu-Salih M. and Awad, A. Estimating the mean of a random parameter in reliability models. 1980, *Dirasat (Natural Sciences)* VII (1) 127 -135. MR0613715 (82g:62130)

#### 1979

83. Awad A., A martingale approach to the asymptotic normality of posterior distributions, (1979), *The proceedings of the fourth international conference on statistics, computer science and social research*, Ain Shams University, Egypt, Vol. 4, PP 199-222.

#### 1977

84. Awad, A. Mixtures of gamma distributions. 1977, *Dirasat (Natural Science)*. IV (1,2), 7-22. MR0645804 (83d:62024)

#### 1976

85. Awad, A. Normal approximation to a power transformation of the noncentral F-distribution. 1976, *Dirasat (Natural Science)* III (3) 7-11. MR0644693 (83a:62044)

#### 1975

86. Awad, A. On noncentral distribution and approximation to distributions of the randomized gamma type. 1975, *Dirasat (Natural Science)*, 11, (1), 17-34. MR0613393 (82d:62034)
87. Awad, A. Maximum likelihood estimation of the noncentrality parameter of Poisson mixture of distributions. 1975, *Dirasat (Natural Science)*. II (2) 21-26. MR0613396 (82e:62041)



- **THESES:**

- 1- Awad, A., "On Non-central Distributions and Approximations of the Randomized Gamma Type", M. SC. Thesis, Dept. Math. University of Jordan, Amman, Jordan, 1974. Supervisor: Ifram, A.
- 2- Awad, A., "A Martingale Approach to the Asymptotic Normality of Posterior Distributions", Ph. D. Thesis, Stat. Dept., Yale University, New Haven, Ct.,USA, 1978. Supervisor: Hartigan, J.

## BOOKS

Author/Co-author of each of the following books at the university level

1. Introduction to Statistics, Wiley, N.Y., USA, 1983.
2. Statistical Methods, (Course #1184), 1992, Al-Quds Open University
3. Mathematics 2, (Course #6102), 1992, Al-Quds Open University
4. Discrete Mathematics, (Course #1280), 1993, Al-Quds Open University
5. Research Methodology, (Course #0204), 1993, Al-Quds Open University
6. Foundation of Mathematics, (Course #5260), 1994, Al-Quds Open University
7. Personal Computer Packages, (Course #1382), 1994, Al-Quds Open University
8. Probability Theory, (Course #5364), 1996, Al-Quds Open University
9. Statistical Methods Using MINITAB (upgrade of Statistical Methods), (Cours2 # 1185) , 1998, Al-Quds Open University.
10. History of Mathematics, 2002, Al-Quds Open University
11. Mathematics I, 2001, Arab Open University
12. Mathematics II, 2002, Arab Open University
13. Principles of Mathematics, 2003, Arab Open University
14. Principles of Statistics, 2016, 4<sup>th</sup> edition, Academic for Publishing & Distributing Co., Amman, Jordan. (In English)
15. Principles of Mathematics for Teachers in three volumes, New Book Limited, Lebannon, 2002
16. Introduction to Statistics : Principles and Analysis using SPSS, 2004, Dar Al-Massira, Amman , Jordan.
17. Principles of Statistics, vol. I, Dar Alforkan, Amman, Jordan, 1982.
18. Principles of Statistics, vol. II, Dar Alforkan, Amman, Jordan, 1982.
19. Discrete Probability, Al-Khawarizmi Center, Irbid, Jordan, 1986. (In English)
20. Calculus Vol. I, Dar Alfiker, Amman, Jordan, 1990
21. Calculus Vol. II, Dar Alfiker, Amman, Jordan, 1990
22. Foundation of Mathematics, Dar Alshorok, Amman, Jordan, 1990.
23. General Mathematics and its Applications in Economics, Dar Alforkan, Amman, Jordan, 1991

- **BOOK REVIEWS**

1. Awad, A. M. **MR3157110 Reviewed** Rissanen, Jorma Optimal estimation of parameters. *Cambridge University Press, Cambridge*, 2012. viii+162 pp. ISBN: 978-1-107-00474-0 (Reviewer: Adnan M. Awad) 62F10 (03D32 62L12 62M10 68Q30 94A29)

2. Awad, A. M. **MR2599656 Reviewed** Burgin, Mark , Theory of information. Fundamentality, diversity and unification. World Scientific Series in Information Studies, 1. *World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ*, 2010. xvi+672 pp. ISBN: 978-981-283-548-2; 981-283-548-2 (Reviewer: Adnan M. Awad) 94A15 (62B10)
3. **MR2216540 Reviewed** Kurowicka, Dorota; Cooke, Roger Uncertainty analysis with high dimensional dependence modelling. Wiley Series in Probability and Statistics. *John Wiley & Sons, Ltd., Chichester*, 2006. x+284 pp. ISBN: 978-0-470-86306-0; 0-470-86306-4 (Reviewer: Adnan M. Awad) 62-01 (62-09 62D05 62H05 94A17)
4. Awad, A. M. **MR2085833 Reviewed** The EM algorithm and related statistical models. Edited by Michiko Watanabe and Kazunori Yamaguchi. Statistics: Textbooks and Monographs, 170. *Marcel Dekker, Inc., New York*, 2004. x+197 pp. ISBN: 0-8247-4701-1 (Reviewer: Adnan M. Awad) 62-02 (62-06 62-07 62F10)
5. Awad, A. M. **MR1876880 Reviewed** Jensen, Finn V. Bayesian networks and decision graphs. Statistics for Engineering and Information Science. *Springer-Verlag, New York*, 2001. xvi+268 pp. ISBN: 0-387-95259-4 (Reviewer: Adnan M. Awad) 62-01 (62C10 68T30)
6. Awad, A. **Reviewed** Millard SP, Krause A 2001: Applied statistics in the pharmaceutical industry with case studies using S-Plus. Springer 513 pp (HB). ISBN 0-387-98814-9 (Reviewed by Adnan M Awad), in *Statistical Methods in Medical Research*, 2002, 11, 296.

- **TRANSLATED ARTICLES**

(Translator of Articles from Scientific America)

- 1- Topology of Mirage, Magalet Al\_Olom, Kuwait, 1984
- 2- Mathematics of three dimensional manifolds, Magalet Al\_Olom, Kuwait, 1985

- **E-COURSES**

1. Co-author of the software and user manuals for teaching Calculus I, II, and III through MATHEMATICA at the university level with support from UNESCO, 1992-1994.
2. Co-author of the software and user manuals for teaching Statistical Methods I and II through MATHEMATICA at the university level with support from UNESCO, 1994-1996.
3. Author of a software for using MINITAB in teaching Statistics, for Al-Quds Open University.
4. Author of a software for teaching Mathematical topics including graphics, linear algebra, calculus, number theory, probability, statistical methods, differential equations, and programming in Mathematica. Supported by the University of Jordan. 2000-2016 (several editions)