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# **CURRICULUM VITAE**

## **Prof. Dr. Mahmoud Khaled Okasha**



### **HOME ADDRESS:**

Abu Ramdan Building, 52-230 El-Wehda Street, El-Rimal, Gaza City,  
Gaza Strip, The Palestinian National Authority.

### **CONTACT INFORMATION:**

#### **Mailing Address:**

Al-Azhar University - Gaza, P.O. Box 1277; Gaza,  
Gaza Strip, The Palestinian Authority.

#### **E-mail Address:**

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### **DATE AND PLACE OF BIRTH :**

May 17, 1956, Jabalia , Gaza Strip, Palestine.

### **MARITAL STATUS :**

Marital Status: Married.

Number of Children : four; 2 sons and 2 daughters

### **EDUCATION:**

1979, **B.Sc.** (Statistics); Department of Statistics; Faculty of Economics and Political Sciences, Cairo University, Cairo, Egypt.

1984, **M.Sc.** (Probability and Statistics); Title of dissertation: “Linear Structural Relationships and Outliers with Application to Biological Data”; School of Probability & Statistics, The University of Sheffield, England, UK.

1988, **Ph.D.** (Applied Statistics); Title of thesis: “Statistical Methods in Dendrochronology”; School of Probability and Statistics, The University of Sheffield, England.

2000, **MMD**, “Master of Management Development”, Title: Increasing the Number of Customers for Health Insurance, the Case of Public Health Insurance System in the Gaza Strip”; Euro-Arab Master of Management Development, Euro-Arab Management School, Granada; Spain.

**COMPUTER SKILLS:**

- Proficiency in Microsoft programs: WORD, EXCEL, ACCESS and POWERPOINT.
- Proficiency in Statistical Packages: R, SPSS, S-Plus, SAS, MINITAB and SysStat.
- Proficiency in Programming in R, S-Plus, COBOL, FORTRAN 77 and VISUAL BASIC.

**TRAINING COURSES ATTENDED:**

- Communication and Leadership Skills, AMIDEAST, GAZA, 2006.
- Tempus academic expert training session on Projects Evaluation; Brussels, 2005, 2006.
- Computer programming in FORTRAN & COBOL, Egypt (1979) & England (1983).
- Programming in VISUAL BASIC and GAMS, Harvard University, USA, 1997.
- The Palestinian Leadership, Negotiation Skills, UNDP, Jerusalem 1994.
- Trainers Training, AMIDEAST, GAZA, 1993.
- Proposals Writing Methods, AMEDEAST, Jerusalem 1992.
- Distance Teaching, Al-Quds Open University, Amman, Jordan, 1991.

**TRAINING COURSES GIVEN:**

- Proposal Writing Skills for Faculty of Al-Azhar University – Gaza; 2011.
- Communication Skills for Faculty of Al-Azhar University – Gaza; 2011
- Quantitative Research Methods for Faculty of Al-Azhar University – Gaza; 2010.
- SPSS for Faculty Members of Al-Azhar University – Gaza; 2007.
- Health Information Systems & Statistical Packages, Master of Public Health, 1999.
- SPSS for Senior Staff of the Palestinian Ministry of Education- Gaza, 1999.
- SPSS for Senior Health Professionals, Ministry of Health, Gaza, 1998.
- Using SPSS Package, Center for Continuing Education, Al Azhar University, 1996.
- Statistics for Government Employees, Al-Azhar University, 1995.
- Statistics for Senior Health Professionals, AMEDEAST, Gaza, 1993.

**ACADEMIC COURSES TAUGHT:**

- Applied Business Statistics.
- Biostatistics.
- Theory of Probability.
- Mathematical Statistics.
- Statistical Laboratory and Data Analysis.
- Theory of Statistics.
- Design and Analysis of Experiments.
- Advanced Statistical Inference .
- Mathematical Statistics for M. Sc Students.
- Statistical Methods for M. Sc Students.
- Multivariate Analysis for M. Sc. Students.
- Statistical Laboratory for M. Sc. Students.
- Advanced Statistical Inference for M. Sc. Students.

**PROFESSIONAL EXPERIENCE:**

Sep, 2014– Present, Dean of Planning and Quality Assurance, AUG.  
 Nov., 2014 – Present, Professor, Department of Applied Statistics; AUG.  
 April, 2010 – Present, Associate Professor, Department of Applied Statistics; AUG.  
 July, 2008– April, 2010, Vice President for Planning and Quality Assurance, AUG.  
 Nov., 2006 – July, 2008, Associate Professor and Head of Department of Applied Statistics.  
 Feb., 2005 – Nov., 2006, Vice President for Administrative and Financial Affairs.  
 Sept., 2005 – Present, Head of the Center for Strategic Research, Development Studies and Surveys, Al-Azhar University of Gaza.  
 Sept., 1997 – Feb., 2006, Head of Dept. of Applied Statistics, Al-Azhar University of Gaza.  
 Sept., 1993 – Sept. 1997, Assistant Professor, Al-Azhar University of Gaza.  
 Sept., 1992 – Sept. 1993, Dean of Planning & Development, Al-Azhar University of Gaza.  
 Sept., 1989 – Sept. 1991, Cofounder and Vice President for Administrative and Financial Affairs, College for Science and Technology – Khan Younis, Gaza Strip.  
 Sept., 1987 - Aug., 1992, Assistant Professor, The Islamic University of Gaza.  
 Sept., 1980 - Aug., 1982, Assistant Lecturer, The Islamic University of Gaza.

**MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

*Chairman and Founder*, Palestinian Statistical Society, Palestine, *To be announced soon.*  
*Elected Member*, International Institute of Statisticians.  
*Member and Country Representative*, International Association for Statistical Education.  
*Member and Country Representative*, International Biometrics Society.  
*Fellow*, The Royal Statistical Society ( FSS), U.K.  
*Member*, The International Association for Impact Assessment.  
*Member*, The International Environmetric Society.  
*Member*, International Association for Survey Statisticians.  
*Member*, International Institute of Forecasters.  
*Chairman*, Palestinian Economists and Statisticians Association, Palestine, 1994-2000.

**PUBLIC AND CIVIC ACTIVITIES:**

*Board Member*, The Palestinian Banking Corporation (PBC), Jerusalem. 2009-Present.  
*Board Member*, The Palestinian Development Fund (PDF), Jerusalem. 2009-2013.  
*Board Member*, Commission for Human Resources Development, Palestine, 2002-2007.  
*Board Member*, Popular Studies Center, Gaza, 2003-2007.  
*Consultant*, The Arab Women’s Organization, Cairo, 2004-2005.  
*Consultant*, Environmental Profile; Ministry of Planning, Palestinian Authority, 1995-1998.  
*Consultant*, The Gaza Water Research Group, Water Research Center, Al-Azhar University.  
*Consultant*, The Palestinian Environment Quality Assurance Authority, Gaza, 2001- 2003.  
*Member*, The Steering Committee, The Palestinian Bureau of Statistics, Jerusalem, 1993-96.  
*Member*, The Steering Committee, Technical Committees for the Peace Process.1993-96.  
*Member*, The Palestinian Team for Peace Conference, 1993-96.  
*Associate Member*, Arab Thought Forum (Al-Multaqa), Jerusalem. 1990-1996.

**ACADEMIC ACTIVITIES:****• Current M. Sc. Students Supervised:**

1. Wesam Abu-Khater: "The Application of Principal Components in Functional Data".
2. Enas Au Amra: "Statistical Inference on The Johnson  $S_B$  distribution".
3. Mohammed Jehad El-Hallaq: "Data Visualization Using Correspondence Analysis".
4. Hatem El-Harazeen : "Structural Equation Modeling with likert data".
5. Darwish El-Nimr: "On MANOVA Tables for Repeated Measure Experiments".
6. Alaa Au Zbaida: "Multiple testing procedure : Applications to Genomics".

**• Previous M. Sc. Students Supervised:**

1. Enas Inshase (2016), "The generalized lambda distribution and its use in fitting distributions to data".
2. Waed Hassan Athead (2016), "Principal components as a countermeasure against collinearity problems in regression and discriminant analysis".
3. Shadi Basal (2016), "Using Support Vector Machines in Forecasting Economic Time Series".
4. Ahmed M. El-deeb (2015), "Weibull - Lomax Distribution and Its properties and Applications".
5. Amr. O. Alhallaq (2015), "Comparison Between methods multidimensional scaling versus principal-component analysis For the analysis of a set of data ".
6. Husain Halima (2015), "Inference on the Multivariate Linear Regression Model with Application".
7. Maryam Matter (2015), "Statistical Inference or the Bur Type XII Distribution".
8. Mohammad Abd Elfattah Shehada (2015), "Inference on the Multinomial Logistic Regression Coefficients with Application".
9. Mazen S. Helail (2015), " A Comparative Study on ARIMA and GARCH Models in Forecasting Time Series Data: Applied study on Currency exchange data (ILS/JOR)".
10. Bilal Abu-Imara, (2014), "Comparative Study of Detection and Remedy Techniques for Autocorrelated disturbances in Regression Models."
11. Saleh El-Diqs (2014), "On Survival Models for Lung Cancer Patients in the Gaza Strip."
12. Iyad El-Qanoua (2014), "On the Truncated Distributions within the Exponential Family".
13. Harown Behhar (2013) "Comparison Between Classification Methods Using PCBS Data".
14. Mohammad H. Abu-Jarad: (2013), "Comparison Between ARIMA Models and Neural Networks in Forecasting Heart Disease' Deaths in the Gaza Strip".
15. Abdelhadi Abu-Saada (2013) "Statistical Methods in the Analysis of Violence Against Women in Palestine".

16. Deaa' Abu-Shanab (2013), "Building Seasonal Box-Jenkins Models for Predicting Monthly Water Consumption in Gaze City".
  17. Mohammad Ali Nassar (2013); "Comparison between Neural Network and Logistic Regression in Predicting Financial Failure of Palestinian Companies".
  18. Rana El-Wali (2013), "On the Estimation of Unmet Need for Family Planning in Palestine".
  19. Ashraf Abu-Samra (2012) "Comparative Study of Classification Methods for Patients with Hypertension in Palestine".
  20. Mahmoud Abu-Azzoum (2012); "Statistical Methods to Predict Recurrent Ischemic Stroke in Gaza Strip".
  21. Nisreen Nour-Eddin (2012) "On the Analysis of Crime and Violence Data in Palestine".
  22. Mohammad Aukal (2011); "Survival Analysis of Breast Cancer Data in the Gaza Strip".
  23. Asem Yaseen: (2011), "Comparison Between ARIMA Models and Neural Networks in Forecasting Economic Data".
  24. Khalid Mghari (2010); "Estimating the Number of Clusters in Genetics of Acute Lymphoblastic Leukemia Data".
  25. Naji El-Qiq (2010); "Comparison between Goodness of Fit Tests in Logistic Regression Models".
- 2009: Al-Azhar University – Gaza, Developed the First Self Evaluation and Strategic Plan for Al-Azhar University of Gaza.
  - 2008: Al-Azhar University – Gaza, Developed an action plan for and the establishment of the Leadership and Career Development Center in Al-Azhar University-Gaza.
  - 2007: Al-Azhar University – Gaza, Developed the first Organizational Structure and Job Description for Al-Azhar University - Gaza.
  - 2006: Al-Azhar University – Gaza, Developed a "Leadership and Faculty Development in the Palestinian Universities - a Training Proposal", Al-Azhar University of Gaza.
  - 2005: Al-Azhar University – Gaza, Developed an action plan and internal law for the establishment of Surveys and Strategic Research Center in Al-Azhar University-Gaza.
  - 2005: Supervised two M. Sc. Students in Statistics; Department of Mathematics, The Islamic University Gaza; Subjects:
    1. Mohammed Iqilan, (2005); "On Multivariate Kernel Density Estimation".
    2. Abd Ennasser El-Jazzar (2005); "The Lambda Method for Density Estimation".

### **EDITORIAL BOARD MEMBERSHIP and ACADEMIC ACHIEVEMENTS:**

1. *Board Member*, SCIREA Journal of Mathematics. January, 2016-Present.
2. *Board Member*, International Journal on Data Science and Technology(IJDST); Science Research Association, September, 2016-Present.
3. *Board Member*, Arab Journal for Statistical Sciences and Their Applications in Social and Human Sciences (AJSS). 2014-Present.

4. *Editor in Chief*, The Arab Journal For Quality Best Practices And Excellence. 2013-Present.
5. *Board Member*, Economic and Administrative Studies Journal, The Islamic University of Gaza. 2016-Present.
6. *Board Member*, Al-Azhar University Research Journal, Al-Azhar University - Gaza. Several years.
7. 2016: Head of the Scientific Committee of the first Scientific Conference in Community Development which has been held in Al-Azhar University – Gaza on 15-17 November, 2016.
8. 2004: Al-Azhar University – Gaza, Developed an M. Sc. Academic Programs in Applied Statistics, Actuarial Sciences and Biostatistics and submitted to the Ministry of Higher Education for accreditation.
9. 2003: Al-Azhar University – Gaza, Developed the modified B. Sc. Academic Programs in Applied Statistics and accredited by the Palestinian Ministry of Higher Education.
10. 2005: Member of the Scientific Committee of the 3rd EMR-IBS International Conference held in Corfu, Greece: May 10-12, 2005.
11. 2005: Chairman and Head of the Organizing Committee of the first International Conference in Mathematical Sciences which is scheduled to be held in Al-Azhar University – Gaza on 15-17 May, 2006.
12. 1996: Al-Azhar University – Gaza, Developed a new B. Sc. Academic Program in Applied Statistics and accredited by the Palestinian Ministry of Higher Education.
13. 1993, Developed a Development Plan for Al-Azhar University of Gaza; It included: establishing new faculties, buildings and facilities as well as the budgetary requirements.

### **PROJECTS AND PROFESSIONAL CONSULTANCY:**

1. 1988-1989: *Team leader and Statistical analyst*: Arab Thought Forum, Jerusalem; Sponsored by: Fredrech Ebert Stiftung – Germany: Field research on population and labor force characteristics in the Gaza Strip: Data collection and Analysis.
2. 1989-1990; *Statistical Consultant*: The Arab Thought Forum, Jerusalem; The establishment of an agricultural data base; Sponsored by the European Union: Designing questionnaires and the field research plan.
3. 1990, *Statistical Consultant*: The UNDP; Needs assessment for the Industrial sector in the Gaza Strip: Analyzing statistical data and writing a report.
4. 1990-1991: *Team Leader and Statistical Consultant*: The Arab Thought Forum, Jerusalem; Sponsored by: Fredrech Ebert Stiftung – Germany; A survey on the characteristics of industry in the Gaza Strip: Data collection and analysis.

5. 1991-1992; *Statistical Consultant*: Society For Austro-Arab Relations, Jerusalem; Development perspectives for agriculture in the Occupied Palestinian Territories: Analyzing statistical data and writing a report.
6. 1992; *Statistical Consultant*: Policy Research Incorporated, Washington, USA; A survey on enterprise development in the Gaza Strip: Analyzing statistical data and report writing.
7. 1992-1993; *Statistical Consultant*: FAFO, Norway; A sample survey on demographic and social characteristics of the Palestinian population: Designing questionnaires and the sampling plan and analyzing statistical data.
8. 1993; *Statistical Consultant*: SRI International, Washington, USA; Private Sector Development in the Gaza Strip; Analyzing statistical data and writing a report.
9. 1992-1994; *Team Leader and Statistical Consultant*: Union Of Industrialists; A data base for the industrial sector in the Gaza Strip; A comprehensive field survey: Designing questionnaires, field research plan; Analyzing the data and writing a statistical report.
10. 1995; *Statistical Consultant*: World Foundation For Environment; Oslo; Water Supply, Economics and Pricing in Palestine, In "Water Institutions and Water Laws": Analyzing statistical data and writing a report.
11. 1995; *Statistical Consultant*: AMIDEAST grant; Demographic and labor force characteristics in the Gaza Strip, a field survey: Data collection and analysis and writing a research report.
12. 1995-1996; *Consultant*: Sponsored by the European Union for Rafah Municipality, Rafah city, Palestine; Development of management information system and a population database for Rafah municipality: Designing questionnaires, the database and the field research plan.
13. 1997; *Consultant*: Harvard Institute for International Development, Cambridge, USA for the Palestinian Ministry of Health; The health insurance system in the Gaza Strip, potential and challenges for future development: Data collection and analysis and writing a research report.
14. 1995-1998; *Statistical Consultant*, The Environmental Profile; Ministry of Planning, The Palestinian Authority: Designing Environmental Database: Designing questionnaires, the database and the field research plan.
15. 1998; *Consultant*: John F. Kennedy School of Government, Harvard University, USA: Reallocation and distribution of water resources in the Middle East: Data collection and analysis and writing a research report.
16. 1999-2001; *Statistical Consultant*: The Gaza Social and Human Research Center; On the Knowledge, Attitudes and Practice of Family Planning and Their Effects on Women's Health in Palestine: Designing Questionnaires and Sampling Plans, Training and Data Analysis.

17. 2001; *Consultant*: The Population Council, Cairo, Egypt: Male Involvement in Family Planning, The Case of Al-Nussayrat Camp – Gaza Strip, Palestine: Data collection and analysis and writing a research report.
18. 2002; *Consultant*: The Businessmen Development Association, Nablus, Palestine; Performance Evaluation for the Gaza Juice Factory; Data collection and analysis and writing a research report..
19. 2002-2003; *Consultant*: The United Nations Economic and Social Commission for Western Asia (ESCWA), Beirut, Lebanon; Rapid Assessment on Trade and Environment and International Competitiveness; The Impact of Environmental Policies on Trade and Competitiveness of the Palestinian Industry; (METAP): Designing questionnaires and the sampling plan, training and analyzing statistical data.
20. 2004-2005; *Consultant*, The Arab Women’s Organization, Cairo; Assessment of the Impact of the Palestinian Women’s Institutions and Projects on the Health, Education and Employment of the Palestinian Women; Field survey and data analysis; Writing a report.
21. 2005; *Consultant*, The Tempus Selection Joint European Projects - 2004 and Tempus expert training session on Projects Evaluation; Brussels; (7-11 February 2005).
22. 2006; *Consultant*, The Tempus Selection Joint European Projects - 2005 and Tempus expert training session on Projects Evaluation; Brussels; (2-6 February 2006).
23. 2010-2011: *Project leader and Trainer*: Al-Azhar University - Gaza; Sponsored by: AMEDEAST: Enhancing Teaching and Research Capacity for Faculty in the University.

### **PUBLICATIONS AND RESEARCH REPORTS :**

1. Okasha, Mahmoud K. (1990); “*Population and Labor Force in the Gaza Strip: A Statistical Survey*”; The Arab Thought Forum, Jerusalem.
2. Okasha, Mahmoud K. and Abu-Zarifa, Samy (1992); “*Characteristics and Prospects of Industry in the Gaza Strip*”; (In Arabic); The Arab Thought Forum, Jerusalem.
3. Okasha, Mahmoud K. *et al*, (1992); “*Development Perspectives for Agriculture in the Occupied Palestinian Territories*”; Society For Austro-Arab Relations, Jerusalem.
4. Okasha, Mahmoud K. (1993); “*Prospects of Industry in the Gaza Strip*”; (In Arabic); Samed Al-Iqtisadi; Palestine Liberation Organization, Amman.
5. Okasha, Mahmoud K. (1994); “*The Reality of Industry In The Gaza Strip; Results of Comprehensive Field Survey – 1993*”; Union Of Industrialists, Gaza, Palestine.
6. Okasha, Mahmoud K. (1994); “*Prospects of Regional Cooperation in the Middle East Regarding Industry and Trade*”, In "Securing Peace in The Middle East: Project on Economic Transition"; Eds. Stanley Fisher *et. al.*; The MIT Press; Cambridge - Massachusetts, London - England.
7. Okasha, Mahmoud K. (1995); “*Water Supply, Economics and Pricing in Palestine*”, In "Water Institutions and Water Laws" , World Foundation For Environment; Oslo.



8. Okasha, Mahmoud K. (1995); "*Demographic and Labor Force Characteristics In The Gaza Strip, A Field Survey Results*", The Palestinian Economists Association, Gaza.
9. Okasha, Mahmoud K. (1997); "*The Health Insurance System in the Gaza Strip, Potential and Challenges For Future Development*", Technical Report, Harvard Institute for International Development, Cambridge, USA.
10. Okasha, Mahmoud K.; (2002) "*Male Involvement in Family Planning Issues, The Case of Al-Nussayrat Camp–Gaza, Palestine*", The Population Council, Cairo, Egypt.
11. Okasha, Mahmoud K. (2004); "*Demographic, Economic and Social Characteristics of the Palestinian Women*"; The Arab Women's Organization, Cairo.
12. Okasha, Mahmoud K. (2004); "*Estimating the Unmet Need for Family Planning in the Gaza Strip Using Discriminant Analysis*"; Proceedings of The 16<sup>th</sup> Annual Conference on Statistics and Computer Modeling in Human and Social Sciences; Faculty of Economics and Political Sciences, Department of Statistics and Center for Information & Computer Systems, Cairo University, March, 30-31, 2004.
13. Okasha, Mahmoud K. (2004); "*Estimating the Impact of Environmental Policies on Trade and Competitiveness; Evidence from the Gaza Strip*", Al-Azhar University Research Journal, Humanities; 7,1, 64-78; Al-Azhar University–Gaza; Gaza, Palestine.
14. Okasha, Mahmoud K. (2005); "*Statistical Inference for the Rate Ratio in Two-way Contingency Tables with Empty Cells*"; An-Najah University Journal for Research-A, (Natural Sciences), Vol 19; p.131-157; An-Najah National University, Nablus, Palestine.
15. Okasha, Mahmoud K. (2005); "*A field survey of the Palestinian Women's Economic Projects*"; The Arab Women's Organization; The Arab League; Cairo.
16. Okasha, Mahmoud K. (2005); "*Parameter estimation for linear models with errors in variables in a system of mutually linearly related random variables*"; The Third Conference on Stochastic Analysis and Probability; Cadi Ayyad University; Semlalia Faculty of Sciences Laboratoire; Marrakesh (Morocco) , December, 13-17, 2005.
17. Iqelan, M. J., Okasha, M. K. and Elatrash, M. A. (2006); "*Background substitution using nonparametric kernel density estimation with optimal bandwidth for visual surveillance*"; Proceedings of The 1<sup>st</sup> International Conference on Mathematical Sciences in Palestine; Al-Azhar University – Gaza, Palestine, 15-17 May 2006.
18. Okasha, Mahmoud K. (2007), "*The Gaza Economy: Current Status and Future Prospects*"; Palestine-Israel Journal; Current Issue The Economic Dimension: Past, Present and Future; Vol.14 (3); 2007; Jerusalem.
19. Okasha, Mahmoud K. (2008), "*Enhancing the Role of Arab Women in Economic Development*"; The Women Rights and Gender Issues in the Arab World Conference; Center for Economic and Financial Research and Studies, Faculty of Economics and Political Sciences, Cairo University; Egypt, 7-8 May 2008.
20. Okasha, Mahmoud K. and Almgari, Khaled I.A. (2011), "*Estimating the Number of Clusters in Genetics of Acute Lymphoblastic Leukemia Data*", Al-Azhar University Research Journal, Natural Sciences; 13:109-125; Al-Azhar University–Gaza; Palestine.

21. Okasha, Mahmoud K. and Yaseen, Asem (2013), "*The application of Artificial Neural Networks in Forecasting Economic Time Series*", The International Journal of Statistics and Analysis (IJSA). 3(2):123-143.
22. Okasha, Mahmoud K. (2013), "*Towards Quality Assurance in Statistics Education for Non-Statistics Students at Palestinian Universities*", The Arab Journal for Quality, Best Practices and Excellence, 1(1): 21-41.
23. Okasha, Mahmoud K. (2013), "*Using Logistic Regression in Planning and Quality Assurance of Security Services*", The Arab Journal for Quality, Best Practices and Excellence, 3(1): 49-70.
24. Okasha, Mahmoud K. (2013), "*Prevalence Rates of Hypertension and Related Risk Factors in Palestine*", International Journal of Statistical Sciences (IJSS); 13: 55-72.
25. Okasha, Mahmoud K. and NourAldin, Nisreen F. (2014); "*Estimating Victimization Rates, Trends and Risk Factors in Palestine*"; An-Najah University Journal for Research, (Natural Sciences), An-Najah National University, Nablus, Palestine, 38(1):61-84.
26. Okasha, Mahmoud K. and Abu-Saada, A. Hadi. K. (2014), "*Modeling Violence Against Women in the Palestinian Society*"; American International Journal of Contemporary Research, 4(1):209-220.
27. Okasha, Mahmoud K. (2014), "*Using Support Vector Machines in Forecasting Financial Time Series*", International Journal of Statistics and Applications, 4(1): 11-18.
28. Okasha, Mahmoud K. and Abu-Azzoum, Mahmoud (2014), "*The Application of Cox Regression and Cox Proportional Hazards Model on Palestinian patients of Ischemic Stroke*", Journal of Statistical Sciences, The Arab Institute for Training and Research in Statistics 06/2014; 2014(6):1.
29. Okasha, Mahmoud K. and Alqanoo, Iyad M. A.(2014), "*Inference on The Doubly Truncated Gamma Distribution For Lifetime Data*", International Journal Of Mathematics And Statistics Invention (IJMSI) 01/2014; 2(11):1-17.
30. Okasha, Mahmoud K. and Abu Shanab, Deaa M. M. (2014), "*Forecasting Monthly Water Production in Gaza City Using a Seasonal ARIMA Model*", Scholars Journal of Physics, Mathematics and Statistics (SJPMS) 11/2014; 1(2):61-70.
31. Okasha, Mahmoud K., Abu-Saada, Abed H. K. and Bhar, Haroun M. (2015), "*Multinomial Analysis of the Trend in Prevalence of Violent Incidents Against Women in Palestine from 2005 to 2011*", Arab Journal for Statistical Sciences and Their Applications in Social and Human Sciences (AJSS), 2(1): 69-96.
32. Okasha, Mahmoud K. and Bhar, Haroun M. (2015), "*Application of Artificial Neural Networks in Identifying Risk Factors of Cardiovascular Disease in the Gaza Strip*", Arab Journal for Statistical Sciences and Their Applications in Social and Human Sciences (AJSS), 1(1):1-19.
33. Okasha, Mahmoud K. and Matter, Mariam (2015), "*On the Three-Parameter Burr Type XII distribution and its Application to Heavy Tailed Lifetime Data*", Journal of Advances in Mathematics, 04/2015; 10(4): 3429-3442.

34. Okasha, Mahmoud K. and Abu Halima, Hussien A. (2016); "*Determinants and Risk Factors of Adult Onset Diabetes and Hypertension in the Gaza Strip; Application of the Multivariate Regression Model*". International Journal of Advanced Research. 4 (1). 1104- 1121.
35. Okasha, Mahmoud K. and Shehada. Mohammed A. M. (2016); "*Classification of Anemic Palestinian Children Using The Multinomial Logistic Regression Model*". International Journal of Advanced Research. 4 (2). 560-573.

### **CONFERENCE PARTICIPATION :**

1. Okasha, Mahmoud K. and N.R.J. Fieller (1986); "*Empirical Validation of Tree-Ring Matches by Sample-Splitting*"; Conference on Bootstrap, Jackknife and Related Techniques; University of Edinburgh; UK; September, 1986.
2. Okasha, Mahmoud K. (1993); "*The Business Environment in the Gaza Strip*", Seminar on Assistance to Palestinian People, Priorities and Needs, UNESCO, Paris, 26-29 April.
3. Okasha, Mahmoud K. (2000); "*Forecasting Water Supply and Demand; A Statistical Contribution to the Solution of Water Conflict in the Middle East*". TIES/SPRUCE 2000 Conference; The University of Sheffield, UK, 4 - 8 September 2000.
4. Okasha, Mahmoud K. (2001); "*On the Estimation of Knowledge, Attitudes and Practice of Family Planning and Their Effects on Women's Health; The Case of Palestinian Women*"; Inaugural EuroConference - Eastern Mediterranean Region, International Biometric Society; Athens, Greece, 7-10 January, 2001.
5. Okasha, Mahmoud K. (2003); "*On Unmet Need For Family Planning in the Gaza Strip Using Multivariate Analysis Techniques*"; The Second International Biometric Society Conference of the Eastern Mediterranean Region,; Antalya, Turkey, 12-15 January, 2003.
6. Okasha, Mahmoud K. (2003); "*Measuring the Impact of Environmental Policies on Trade and Competitiveness of the Palestinian Industry*"; MedPolicies Initiative of the Mediterranean Environmental Technical Assistance Program (METAP); The United Nations Economic and Social Commission for Western Asia (ESCWA), Beirut, Lebanon.
7. Okasha, Mahmoud K. (2004); "*Estimating the Unmet Need for Family Planning in the Gaza Strip Using Discriminant Analysis*"; The 16<sup>th</sup> Annual Conference on Statistics and Computer Modeling in Human and Social Sciences; Faculty of Economics and Political Sciences, Department of Statistics, Cairo University, March, 30-31, 2004.
8. Okasha, Mahmoud K. (2005); "*Analysis of Noninferiority Trials in Small Sample Matched Pair Designs with a Structural Zero*"; Corfu, Greece, May, 9-12, 2005.
9. *Member of the Scientific Committee and Chairman of the H2 Session: "Measurement Errors in Epidemiology and Medicine"*; The 3<sup>rd</sup> International Biometric Society Conference of the Eastern Mediterranean Region; Corfu, Greece, May, 9-12, 2005.
10. *Chairman and Head of the Organizing Committee*; The 1<sup>st</sup> International Conference on Mathematical Sciences in Palestine; Al-Azhar University – Gaza, 15-17 May 2006.

11. Iqelan, M. J., Okasha, M. K. and Elatrash, M. A. (2006); "*Background substitution using nonparametric kernel density estimation with optimal bandwidth for visual surveillance*"; Proceedings of The 1<sup>st</sup> International Conference on Mathematical Sciences in Palestine; Al-Azhar University – Gaza, Palestine, 15-17 May 2006.
12. Okasha, Mahmoud K. (2006); "*Parameter estimation for linear models with errors in variables in a system of mutually linearly related random variables*"; Proceedings of The 1<sup>st</sup> International Conference on Mathematical Sciences in Palestine; Al-Azhar University – Gaza, Palestine, 15-17 May 2006.
13. Okasha, Mahmoud K. (2008), "Enhancing the Role of Arab Women in Economic Development"; The Women Rights and Gender Issues in the Arab World Conference; Center for Economic and Financial Research and Studies, Faculty of Economics and Political Sciences, Cairo University; Egypt, 7-8 May 2008.
14. Okasha, Mahmoud K. (2012); "*Application of Multidimensional Scaling on Identifying Significant Clusters in Microarray Data*"; The 24<sup>th</sup> Annual Conference on Statistics and Computer Modeling in Human and Social Sciences; Faculty of Economics and Political Sciences, Department of Statistics and Center for Information & Computer Systems, Cairo University, March, 27-29, 2012.
15. Okasha, Mahmoud K. (2012); "*The Role of Technology in Teaching Statistics in Palestinian Universities*"; The 1<sup>st</sup> International Conference on Education; Faculty of Education, Al-Azhar University – Gaza, Palestine, September, 10-12, 2012.
16. Okasha, Mahmoud K. and Yaseen, Assem A. (2013); "*Comparison between ARIMA Models and Artificial Neural Networks in Forecasting Al-Quds indices of Palestine Stock Exchange Market*"; The 25<sup>th</sup> Annual International Conference on Statistics and Modeling in Human and Social Sciences; Department of Statistics; Faculty of Economics and Political Science; Cairo University; Cairo, Egypt; March 25-28, 2013.
17. Okasha, Mahmoud K. and Abu Samra, Ashraf I. (2013); "*Classification Methods for Hypertension Patients' Data in Palestine*"; The 25<sup>th</sup> Annual International Conference on Statistics and Modeling in Human and Social Sciences; Department of Statistics; Faculty of Economics and Political Science; Cairo University; Cairo, Egypt; March 25-28, 2013.
18. Okasha, Mahmoud K. and Abu-Azzoum, Mahmoud (2013), "*Modeling Time to Recurrent Ischemic Stroke among Palestinian patients in Gaza*", Proceedings of The 24<sup>th</sup> Annual International Conference on Statistics and Computer Modeling in Human and Social Sciences; Faculty of Economics and Political Sciences, Department of Statistics and Center for Information & Computer Systems, Cairo University, March, 25-28, 2013.
19. Okasha, Mahmoud K. and Bhar, H. (2014), "*Application of Artificial Neural Networks in Identifying Risk Factors of Cardiovascular Disease in the Gaza Strip*", Proceedings of The 13<sup>th</sup> Islamic Countries Conference on Statistical Sciences (ICCS-13), December 18-21, 2014, IPB International Convention Center, Bogor, Indonesia.
20. Okasha, Mahmoud K., Abu-Saada, A. H. and Bhar, H. (2014), "*Multinomial Analysis of the Trend in Prevalence of Violence Against Women in Palestine from 2005 to 2011*",

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