Dr. Arwa Mohammad Alshangiti

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Statistical Programs

- Mathematica
- SPSS
- Stata
- SAS
- Tableau

Languages

- Arabic
- English

Education

- Postdoctoral researches, University of Edinburgh, U.K., 2009.
- Ph.D. in Statistics, major: reliability, Faculty of Science, King Saud University, G.P.A.: 4.9 out of 5, 2008.
- Master's Degree in statistics, major: designing tests, Faculty of Science, King Saud University, G.P.A.: 05 out of 05, 2004.
- Bachelor's Degree in mathematics with a grade of excellent (first class honors), Faculty of Science, King Saud University, 2001.

Academic Experience

- Nominated for the scholarship of the British Council for postdoctoral researches, University of Edinburgh, U.K., 2009.
- Assistant Professor at the Department of Statistics and Operations Researches, Faculty of Science, 2007.
- Lecturer at the Department of Statistics and Operations Researches, Faculty of Science, King Saud University, 2002.
- Reader at Department of Statistics and Operations Researches, Faculty of Science, King Saud University.

Work Experience

- Advisor to H.E. President of the General Authority for Statistics and the Director-General of the Statistical Analysis and Decision Support Center , 2016 up to the present.
- Member of the board of the Professional Association of Statisticians and Data science- 2019- up to present
- Member of the Saudi's delegation at the United Nations Statistics Division meeting – 2019
- Member of the Committee for Building International Indicators - Human Rights Commission - 2019- up to present
- Advisor in the Big Data Project - General Authority for Statistics – 2017
- Member of the steering committee in the National Observatory for Women, 2017 up to present
- Advisor to H.E. Rector of King Saud University, 2011-2012.
- Head of the Development and Quality Department at the Deanship of Postgraduate Studies, King Saud University, 2011-2014.
- Advisor at the Deanship of Postgraduate Studies, King Saud University, 2009-2011.
- Freelance advisor for Researches and Studies Center, Ministry of Higher Education, 2009.
- Deputy Head of the Statistics and Operations Researches Department, Faculty of Science, King Saud University, 2008-2010.
- Head of the statistical analysis teamwork to decide the self-study submitted to the external auditors for the academic approval for science departments and medical studies, quality deanship, 2010.
- In charge of the computer laboratories commission at the Department of Statistics and Operation Researches, 2005.
- Member on the scientific meeting commission at the sciences department and medical studies, King Saud University, 2004.

Awards and Honors Ranking

- Saudi universities fourth-year academic excellence award of the wife of the Custodian of the Two Holy Mosques H.R.H. Princess Aljawhara Alibrahim, 2005.
- First rank (honors) in the Bachelor's Degree , Department of Mathematics, Faculty of Science, King Saud University, 2001.
- Ideal student of the Faculty of Science, 2000.

Activities and Projects

- Business owner for the project "The effect of Covid-19 on Business" 2020
- Business owner for "Youth Report", "Women Report",.... and other related projects, 2020
- Business owner of the project "building indicators for job seekers from administrative records within the work of steering Committee for Labor Market Policies - in cooperation with: Employment Supervision Office in the Royal Court - National Information Center - Ministry of Civil Service - Human Resources Development Fund (2019)
- Representative of the General Authority for Statistics in the Human Rights Commission (2018 - present)
- Member of the Saudi's delegation in the discussion of the UPR periodic report at the United Nations High Commissioner for Human Rights 2019
- Member of the Saudi's delegation in discussing the report on combating all forms of racial discrimination in the United Nations - United Nations High Commissioner for Human Rights 2018
- Member of the Saudi's delegation in discussing the report on the elimination of all forms of discrimination against women (CEDAW) - United Nations High Commissioner for Human Rights 2018
- Consultant in the project of establishing statistical units in public entities - General Authority for Statistics (2019)
- Consultant in the Sectoral Observatories Project - General Authority for Statistics (2018-2019)
- Consultant in the Statistical Licensing Project - General Authority for Statistics (2018-to date)
- Business owner of the projects "developing and investing economic surveys" and "developing and investing the household surveys", which resulted in a comprehensive development plan and increasing the economic, social, environmental and cultural products of the Authority for the year 2017.
- Sponsor of the social products in the project of the "new statistical products" under the supervision of H.E. President of the General Authority for Statistics and H.E. Minister of Economics and Planning, 2017-2018.
- In charge of the project of "statistical analysis methodology" at the General authority for Statistics, which sets the ground for the statistical analysis at the General Authority for Statistics, July 2017 up to the present.
- Representative of the General Authority for Statistics in the commission of surveying the response of the health system in cooperation with the health council and the Ministry of Health under the supervision H.E. Minister of Health, 2017.
- Member on the higher commission of the higher education symposium for girls in the Kingdom: from growth to competition, 2013.
- Prepared and organized a workshop entitled "types of education for girls in the Kingdom", which targets leaders, both males and females, at the higher education system, Researches and Studies Center, and the Ministry of Higher Education, 2009.
- Prepared a workshop on using Mathematica software for statistical inference, 2007.
- Organized a workshop on using SPSS in statistical analysis and delivered a related lecture entitled "ANOVA by using SPSS software", 2006.

Research

- On Second - Order A- , D- , and E - minimax designs for estimating slopes in extrapolation and restricted interpolation regions, Communications in Statistics - Simulation and Computation (2000). Vol. 33, issue # 3 .
- The performance of Second - order - D - minimax optimal designs for estimating slopes under model variation(2003), Journal of Statistical Theory and Applications Vol. 2, pp. 223 - 234 .
- Performance of Second - order A - minimax optimal designs for estimating slopes under model variation.(2003) Arab Journal of Mathematical Sciences, Vol. 9, No. 2, pp. 47 - 53 .
- Second order E-minimax optimal designs for estimating slopes over Spherical regions: performance under model variations,(2004) Aligrah Journal of Statistics.24,143-150.
- Rotatable Generalized Central Composite designs: A -minimax efficiencies for estimating slopes. (2003) pakistanian J.Stat.20,399-409.
- Reliability Estimation of Generalized Geometric Distribution (2008).International journal of reliability and applications. Vol. 9, No 1 , pp.31-52, (2008)
- Reliability Estimation of Generalized Inverted Exponential Distribution . . Journal of Statistical Computation and Simulation .Vol 79, Issue 11 , pp 1301 – 1315, (2009)
- Research entitled "Patterns of Higher Education for Girls in the Kingdom - International Experience and How to Benefit from Them", which was presented to His Excellency the Minister of Higher Education / Center for Research and Studies - Ministry of Higher Education (2009).
- Estimation of Generalized Inverted Exponential Model Under Censoring. Advanced in statistical and optimization. pp 26-37 (2013).
- Length Biased Rayleigh Distribution: Reliability Analysis, Estimation of the parameter and Application. International Journal of Reliability and Applications. Vol 14, No1, pp 27-39 (2013).
- A new model based on Lomax distribution, International Journal of reliability and application. Vol. 15, No. 1, pp. 65-76 (2014).
- A new family of Marshall–Olkin extended distributions, Journal of Computational and Applied Mathematics. 271, pp 369-379 (2014).
- A new generalized Lindley distribution. Journal of Statistical Computation and Simulation. 85(18) pp 1-17 (2015).
- Further results involving Marshal_Olkin Log-Logistic distribution: reliability analysis , estimation of the parameters, and applications, Springer Plus . 5:385 (2016).
- Reliability analysis of extended generalized inverted exponential distribution with application, Journal of System Engineering and Electronics. 27 (2):484-492 (2016)
- Reliability of Modified Exponential Distribution, Journal of Scientific and Engineering Research, 4(9):506-519 (2017).
- The Saudi Women participation in development index , Journal of King Saud University – Science . (2019)
- An Alternative Sensitivity Approach for Longitudinal Analysis with Dropout, Journal of Probability and Statistics (2019)
- Future Operational Plan for Census in the Kingdom of Saudi Arabia, Journal of International Association for Official Statistics, (accepted for publication -2019)