

Academic Curriculum Vitae



Personal Information:

Full Name: Khwazbeen Saida Fatah
Academic Title: Assistant Professor
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Education:

- PhD. Applied Statistics December, 2009
Department of Mathematics, Glamorgan University-UK
” Preference Modelling Approaches Based on Cumulative Functions Using Simulation with Applications”
Dissertation Supervisors:
Prof. Dr. Jamal Rasoul (Glamorgan University-UK)
- M.Sc. Simulation Sept 1983 - Sep 1985
Department of Mathematics and Statistics, University of Wales-UK
” Simulation of Spatial Patterns”
Dissertation Supervisor: Assistant Prof. Alan Jones
- B.Sc. Mathematics Sept 1975 - July 1979
Department of Mathematics, College of Sciences, University of Sulaimanya

Employment:

- Assistant Professor May 2013 - Present
Department of Mathematics, College of Science, Salahaddin University-Erbil, Kurdistan, Iraq
- Lecturer March 1999 - April 2013.
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Department of Mathematics, College of Science, Salahaddin University-Erbil, Kurdistan, Iraq
- Assistant Lecturer Sept 1986 - May 1999

Department of Mathematics, College of Science, Salahaddin University-Erbil, Kurdistan,
Iraq

Qualifications

- PhD in Applied Statistics (2009), University of Glamorgann, UK.
Thesis Title: Preference Modelling Approaches Based on Cumulative Functions Using Simulation with Applications.
- MSc in Simulation (1985), University of Wales, UK.
Thesis Title: Simulation of Spatial Statistics
- BSc in Mathematics (1979) University of Sulaimani, Iraq.

Teaching experience:

- Assistant Professor, Salahaddin University-Erbil
Statistics 2013-2020/ Mathematics Department
Mathematical Statistics 2013-2023/ Mathematics Department
Applied Statistics 2015-2023/Mathematics Department
Advance Statistics – MSc and PhD levels/ Physics Department-Geology
Department- Computer Department-College of Science
- Visiting Lecturer, Kurdistan University/Hawler
Introduction to Statistics College of Engineering

Research and publications

- Fatah, K, (2024) “Modeling Non-Homogenous Poisson Process and Estimating the Intensity Function for Earthquake Occurrences in Iraq using Simulation for data from January 1st 2018 to April 30th 2023”, Zanco Journal, Accepted for Publication.
- Adel S. H., Fatah, K, , Muthanna Subhi Sulaiman, (2023) “Parameters Estimation of The Proposed Non-Homogeneous Inverse Rayleigh Process”, Iraqi Journal of Science, Accepted for Publication.
- Ahmed, A., Fatah, K. and Mahmoud, N. (2023) “Local and Interval Dependence for Bivariate Gamma distribution Created by Archimedean Copula”, *Utilitas Mathematica*, 120(1), 1184-1190.
- Adel.S.H., Fatah, K. and Sulaiman, M.(2023) “Estimating the Rate of Occurrence of Exponential Process Using Intelligence and Classical Methods with Application”, *Palestine Journal of Mathematics*, 12(Special Issue I), 73–86.
- Adel.S.H., Fatah, K. and Sulaiman, M. (2023) “Estimating the Rate of Occurrence of Extreme value process Using Classical and Intelligent Methods with Application”, *Iraqi Journal of Science*, 64(6).

- Adel, H., Sulaiman, M., Fatah, K. (2022) "Estimation of Rayleigh Process Parameters Using Classical and Intelligent Methods with Application", 8th International Conference on Contemporary Information Technology and Mathematics (ICCITM2022), Mosul University, Mosul-Iraq, IEEE, DIO: 10.1109/ICCITM56309.2022.10031678
- Fatah, K. and Alkakai, Z. (2021) " Application of Binary Logistic Regression Model to Cancer Patients: a case study of data from Erbil in Kurdistan Region of Iraq, Zanco Journal, 33(4), 117-128.
- Ahmed, S., Fatah, K. and Esa, S. (2021) "Local Dependence for Bivariate Weibull Distributions Created by Archimedean Copula", Baghdad Science Journal, 18(1), 816-823.
- Ahmed, S., Fatah, K. and Esa, S. (2020) "Statistical analysis of bivariate failure time data with Type I and Type II Marshall–Olkin Weibull models", Journal of Advanced Research in Dynamical and Control Systems. 12(2), 253-264.
- Fatah, K. and Mahmoud, R. (2017) "Parameter Estimation for Binary Logistic Regression using Different Iterative Methods", Journal Of Zankoy Sulaimani-Part A, 19(2), 1-20.
- Fatah, K. and Ahmed, S. (2015) "An AHP-Evaluation Model for Ranking Construction Tenders using Simulation: A Case study in Kurdistan Region of Iraq", Journal Of Zankoy Sulaimani-Part A, 17(2), 1-15;
- Fatah, K. (2013) "A Multinomial Logistic Regression Model for Analyzing Attitudes towards Political Activities: A case Study in Erbil/ Kurdistan Region of Iraq", Journal Of Zankoy Sulaimani-Part A, 15(2), 1-15;
- Fatah, K. (2012) Preference Modeling Approaches Based on Cumulative Functions, Germany, VDM Verlag Dr. Muller Gmbh & Co. KG;
- Fatah, K. and Ahmed, S. (2012), "Variance Estimates for Price Changes in the Consumer Price Index for Kurdistan Region of Iraq", Journal of Basrah Researches(Sciences), 38(4), 80-91;
- Fatah, K. (2009) Preference Modeling Approaches Based on Cumulative Functions using Simulation with Applications, PhD Thesis, Glamorgan University, UK;
- Fatah, K., Shi, P., Ameen, J., Wiltshire, R. (2010) "Risk-averse preference models for normalized lotteries based on simulation, International Journal of Operational Research 8(2), 189-207;
- Fatah, K., Shi, P., Ameen, J., Wiltshire, R. (2009) "A preference ranking model based on both mean-variance analysis and cumulative distribution function using simulation", International Journal of Operational Research, 5(3), 327-331;
- K.S.Fatah (1998) Periodic Solutions for Ricatti Type Equations, Journal of Sulaimani University.
- K S Fatah (1996) Integer programming and branch and bound method, Zanco Journal, Salahaddin University, Erbil
- Khwazbeen Saida Fatah. (1991) Basic programming Language and applications in mathematics, University of Salahaddin, Printing Press, Erbil.
- K.S.Fatah (1985) Simulation of Spatial patterns, University of Wales, U.K.

Conferences and courses attended

- Organizing Committee member for AESIM School, February 25, 2024 to March 7 2024 in Salahaddin University, college of Science, department of Mathematics, Erbil, Iraqi Kurdistan Region

- Scientific Committee member for the third international conference of mathematics and its applications (TICMA 2022), March 27-29, 2022 in Salahaddin University, college of Science, department of Mathematics, Erbil, Iraqi Kurdistan Region.
- Participation in the 8th International Conference on Contemporary Information Technology and Mathematics (ICCITM), Augst,2022, presenting a paper.
- Participation in the West Asia Mathematical Schools; Entitled: Control and Optimization with Industrial Applications; Date and place of the school; 19-29December 2018, Place: Department of mathematics, College of Sciences, Salahaddin University-Erbil, Erbil, Kurdistan-Iraq
- Scientific Committee member for the Second International Conference of Mathematics (SICME2019) held at College of Science, Salahaddin UniversityErbil, 3-5-February, 2019.
- Participate in an international workshop entitled “Some basic mathematics in cryptographic protocols” in 29th April - 3 rd May, 2018 at Mathematics department, College of Science, Salahaddin University, Erbil.
- Participate the West Asia Mathematical Schools { The CIMPA cooperate with the Salahaddin University and the University of Diyala, organize for The period from 20 to 29 December 2015 in the Salahaddin University: West Asia Mathematical Schools WAMS-CIMPA entitled “Boundary Value Problems and Approximations}.
- Member of the Scientific committee for the 4th International Scientific Conference of Salahaddin University/Erbil, October 18-20, 2011, Erbil, Kurdistan, Iraq
- 9th International Conference and Work Shop on Basic and Applied Sciences May, 8-10, 2011.

RESEARCH INTERESTS

- Mathematical Statistics
- Applied Statistics
- Stochastic Processes
- Statistical Modelling and Simulation

COMPUTER SKILLS

- Windows Operating system.
- Microsoft Office Applications.
- MatLab
- SPSS

LANGUAGES

- Kurdish, Mother Language.
- Arabic

- English.

RESEARCH AREA

My research lies in the area of applied Statistics, Preference ranking models applied to different areas of research. In addition, stochastics processes in various fields of research such as finance medical studies. My interest is also in regression analysis and logistic regression analysis applied to medical and biological studies with applications from real life data concerning Kurdistan Region of Iraq.