

# Academic Curriculum Vitae



## Personal Information:

Full Name: Dler Hussein Kadir  
Academic Title: Assistant Professor  
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## Education:

- Salaheddin University-Erbil - College of Administration and Economics (1999-2002)  
Bachelor of Science in Statistics (B.Sc.)
- Sulaymaniyah University - College of Administration and Economics (2007-2009)  
Master of Science in Statistics (M.Sc.)
- Sheffield University in United Kingdom - College of Science (2012-2018)  
PhD of Science in Statistics (PhD.)

## Employment:

- Assistant Researcher in 2002: College of Administration and Economic/Statistics department
- Assistant lecturer in 2009: College of Administration and Economic/Statistics department
- Lecturer in 2018: College of Administration and Economic/Statistics department
- Assistant Prof. in 2022: College of Administration and Economic/Statistics department

## Qualifications

- Teaching qualifications
- IT qualifications
- Language qualification

## Teaching experience:

- Mathematical Statistics
  - Sampling theory
  - Applied Statistics
  - Principles of Statistics
  - Multivariate Analysis
  - Advanced Statistics
  - R Language
  - Biostatistics
  - Hypotheses Test
- As supervisor of 20 Undergraduate and 2 postgraduate Researches.

## Research and publications

1. Kadir, D. H., Saleh, D. M., & Jamil, D. I. (2024). **A Recently Formulated Individual Control Chart Designed for Quality Control Applications within the Health-care Domain.** *Cihan University-Erbil Scientific Journal*, 8(2), 9-18.
2. Mahmood, N. H., Kadir, D. H., Yahya, R. O., & Birdawod, H. Q. 2024. **The Significance of Delivery Methods and Fetal Gender in Reducing Stillbirth Rate: Using the Generalized Regression Model.** *Clinical Epidemiology and Global Health*, 101710.
3. Birdawod, H. Q., Khudhur, A. M., Kadir, D. H., & Saleh, D. M. 2024. **A Wavelet Shrinkage Mixed with a Single-level 2D Discrete Wavelet Transform for Image Denoising.** *Kurdistan Journal of Applied Research*, 9(2), 1-12.
4. Kadir, Dler Hussein; Abdullah, Karzan; Jafaar, Aziz Muazafar; Salih, Rebaz Hamza; Smail, Shukur Wasman; Rahman, Gashaw Qasim; Awla, Harem Khdir; and Khudhur, Zhikal Omar .2024.**Statistical Analysis of Lipid Profiles Associated with Coronary Heart Disease in Erbil City-Iraq**, Polytechnic Journal: Vol. 13: Iss. 1, Article 16.
5. Hosseini, E., Al-Ghaili, A. M., Kadir, D. H., Gunasekaran, S. S., Ahmed, A. N., Jamil, N., ... & Razali, R. A. 2024. **Meta-heuristics and deep learning for energy applications: Review and open research challenges (2018–2023).** *Energy Strategy Reviews*, 53, 101409.
6. KADIR, D. H. & KHUDHUR, A. M. 2024. **Assessing Risk Factors of Bypass Graft Surgery through the Implementation of Bayesian and Non-Bayesian Methodologies.** *Results in Engineering*, 102129.
7. NAGHAVI, M., ONG, K. L., AALI, A., ABABNEH, H. S., ABATE, Y. H., ABBAFATI, C., ABBASGHOLIZADEH, R., ABBASIAN, M., ABBASI-KANGEVARI, M. & ABBASTABAR, H. 2024. **Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet*.

8. ALHARTHI, A. M., KADIR, D. H., AL-FAKIH, A. M., ALGAMAL, Z. Y., AL-THANOON, N. A. & QASIM, M. K. 2024. **Improving Golden Jackel Optimization Algorithm: An Application of Chemical Data Classification.** *Chemometrics and Intelligent Laboratory Systems*, 105149.
9. LI, J., JASIM, D. J., KADIR, D. H., MALEKI, H., ESFAHANI, N. N., SHAMSBORHAN, M. & TOGHRAIE, D. 2024. **Multi-objective optimization of a laterally perforated-finned heat sink with computational fluid dynamics method and statistical modeling using response surface methodology.** *Engineering Applications of Artificial Intelligence*, 130, 107674.
10. MAHMOOD, N. H., KADIR, D. H. & ALZAWBAEE, O. M. M. 2024. **Building a Statistical Model to Forecast Traffic Accidents for Death and Injuries by Using Bivariate Time Series Analysis.** *Zanco Journal of Human Sciences*, 28, 278-289.
11. SHARMA, R., ABBASTABAR, H., ABDULAH, D. M., ABIDI, H., ABOLHASSANI, H., ABREHDARI-TAFRESHI, Z., ABSALAN, A., ALI, H. A., ABU-GHARBIEH, E. & ACUNA, J. M. 2024. **Temporal patterns of cancer burden in Asia, 1990–2019: a systematic examination for the Global Burden of Disease 2019 study.** *The Lancet Regional Health-Southeast Asia*, 21.
12. ZHOU, L., KADIR, D. H., SHI, L., MOUSAVI, S. V. & HUANG, X. 2024. **The influence of aneurysm feature on coiling treatment of internal carotid artery aneurysms: Numerical and statistical study.** *International Journal of Modern Physics C (IJMPC)*, 35, 1-13.
13. KADIR, D. H., RAHIM, A. G., JAMIL, D. I. & SALEH, D. M. 2023. **Proposed Capability Indices Based on Robust Estimation Compared with Classical Capability Indices.** *Cihan University-Erbil Scientific Journal*, 7, 49-53.
14. YANG, J. & HUSSEIN KADIR, D. 2023. **Data mining techniques in breast cancer diagnosis at the cellular–molecular level.** *Journal of Cancer Research and Clinical Oncology*, 149, 12605-12620.
15. ALHARTHI, A., KADIR, D., AL-FAKIH, A., ALGAMAL, Z., AL-THANOON, N. & QASIM, M. 2023. **Quantitative structure-property relationship modelling for predicting retention indices of essential oils based on an improved horse herd optimization algorithm.** *SAR and QSAR in Environmental Research*, 34, 831-846.
16. HU, H., LUO, P., KADIR, D. H. & HASSANVAND, A. 2023. **Assessing the impact of aneurysm morphology on the risk of internal carotid artery aneurysm rupture: A statistical and computational analysis of endovascular coiling.** *Physics of Fluids*, 35.
17. KHIDIR, H. A., ETIKAN, I., KADIR, D. H., MAHMOOD, N. H. & SABETVAND, R. 2023. **Bayesian machine learning analysis with Markov Chain Monte Carlo techniques for assessing characteristics and risk factors of Covid-19 in Erbil City-Iraq 2020–2021.** *Alexandria Engineering Journal*, 78, 162-174.
18. KADIR, D. H. & RAHI, A. R. K. 2023. **Applying the Bayesian technique in designing a single sampling plan.** *Cihan University-Erbil Scientific Journal*, 7, 17-25.
19. HAI, T., KADIR, D. H. & GHANBARI, A. 2023. **Modeling the emission characteristics of the hydrogen-enriched natural gas engines by multi-output least-squares support vector regression: Comprehensive statistical and operating analyses.** *Energy*, 276, 127515.

20. YAHYA, R. O., MAHMOOD, N. H., KADIR, D. H. & AZIZ, S. J. 2023. **The use of factor analysis and cluster analysis methods to identify the most crucial key factors influencing the psychological stability of university students.** Polytechnic Journal of Humanities and Social Sciences, 4, 779-789.
21. SALEH, D. M., KADIR, D. H. & JAMIL, D. I. 2023. **A comparison between some penalized methods for estimating parameters: Simulation study.** Qalaa Zanist Journal, 8, 1122-1134.
22. MICAH, A. E., BHANGDIA, K., COGSWELL, I. E., LASHER, D., LIDRAL-PORTER, B., MADDISON, E. R., NGUYEN, T. N. N., PATEL, N., PEDROZA, P. & SOLORIO, J. 2023. **Global investments in pandemic preparedness and COVID-19: development assistance and domestic spending on health between 1990 and 2026.** The Lancet Global Health, 11, e385-e413.
23. Khudhur, A. M & KADIR, D. H. 2022. **Predicting Risk Factors of Bypass Graft data in Erbil using the Application of Bayesian and Non-Bayesian methods** (Master dissertation, Salahaddin University-Erbil).
24. BAI, J., KADIR, D. H., FAGIRY, M. A. & TLILI, I. 2022. **Numerical analysis and two-phase modeling of water Graphene Oxide nanofluid flow in the riser condensing tubes of the solar collector heat exchanger.** Sustainable Energy Technologies and Assessments, 53, 102408.
25. JAHROMI, A. M., KHEDRI, J., KADIR, D. H., MALEKAHMADI, D., ZANDIE, M., KHEDRI, M. & SHAYEGH, F. 2022. **The ability of the absorbed energy in the flat-plate solar-collector tubes for oil-water separation: An experimental-computational approach.** Sustainable Energy Technologies and Assessments, 53, 102507.
26. PEDEN, A. E., CULLEN, P., FRANCIS, K. L., MOELLER, H., PEDEN, M. M., YE, P., TIAN, M., ZOU, Z., SAWYER, S. M. & AALI, A. 2022. **Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019.** The Lancet Public Health, 7, e657-e669.
27. KHUDHUR, A. M. & KADIR, D. H. 2022. **An application of logistic regression modeling to predict risk factors for bypass graft diagnosis in Erbil.** Cihan University-Erbil Scientific Journal, 6, 57-63.
28. MAHMOOD, N. H., KADIR, D. H. & BIRDAWOD, H. Q. 2022. **The full factorial design approach to determine the attitude of university lecturers towards e-learning and online teaching due to the covid-19 pandemic.** Cihan University-Erbil Scientific Journal, 6, 20-25.
29. MOHAMMED, P. A., OBED, S. A., ALI, I. M. & KADIR, D. H. 2022. **US Dollar/IQ Dinar currency exchange rates time series forecasting using ARIMA model.** Cihan University-Erbil Scientific Journal, 6, 12-19.
30. OMER, A. W., BLBAS, H. T. & KADIR, D. H. 2021. **A comparison between brown's and holt's double exponential smoothing for forecasting applied generation electrical energies in Kurdistan region.** Cihan University-Erbil Scientific Journal, 5, 56-63.
31. OBED, S. A., MOHAMMED, P. A. & KADIR, D. H. 2021. **The estimation of (Covid-19) cases in the Kurdistan region using Nelson Aalen estimator.** Cihan University-Erbil Scientific Journal, 5, 24-31.
32. KADIR, D. H. 2021. **Statistical evaluation of main extraction parameters in twenty plant extracts for obtaining their optimum total phenolic content and its relation to antioxidant and antibacterial activities.** Food Science & Nutrition, 9, 3491-3499.

33. KADIR, D. H. & OMER, A. W. 2021. **Implementing analysis of ordinal regression model on student's feedback response**. Cihan University-Erbil Journal of Humanities and Social Sciences, 5, 45-49.
34. SAJADI, S. M., KADIR, D. H., BALAKY, S. M. & PEROT, E. M. 2021. **An Eco-friendly nanocatalyst for removal of some poisonous environmental pollution and statistical evaluation of its performance**. Surfaces and Interfaces, 23, 100908.
35. KADIR, D. H. 2020b. **Likelihood approach for Bayesian logistic weighted model**. Cihan University-Erbil Scientific Journal, 4, 9-12.
36. KADIR, D. H., SALEH, D. M. & JAMIL, D. I. 2020. **Comparison between two estimators by using process capability with application**. Journal of Arts, Literature, Humanities and Social Sciences, 39, 551-559.
37. MOHAMMED, A. J., HASSAN, M. M. & KADIR, D. H. 2020. **Improving classification performance for a novel imbalanced medical dataset using SMOTE method**. International Journal of Advanced Trends in Computer Science and Engineering, 9, 3161-3172.
38. KADIR, D. 2020a. **Time Series Modeling to Forecast on Consuming Electricity: A case study Analysis of electrical consumption in Erbil City from 2014 to 2018**. Journal of Al-Rafidain University College For Sciences (Print ISSN: 1681-6870, Online ISSN: 2790-2293), 472-485.
39. BLBAS, H. & KADIR, D. H. 2019. **An application of factor analysis to identify the most effective reasons that university students hate to read books**. International Journal of Innovation, Creativity and Change, 6, 251-265.
40. OTHMAN, G. Q., SAEED, R. S., KADIR, D. H. & TAHER, H. J. **Relation of angiography to hematological, hormonal and some biochemical variables in coronary artery bypass graft patients**. Journal of Physics: Conference Series, 2019. IOP Publishing, 062110.
41. KADIR, D. H., SALEH, D. M. & JAMIL, D. I. 2019. **Comparison between four methods to construction number of defectives control chart**. Journal of Arts, Literature, Humanities and Social Science, 39, 538-550.
42. KADIR, D. 2018. **Bayesian inference of autoregressive models**. University of Sheffield.
43. KADIR, D. H. & RAHI AL-HARTHY, A. R. K. 2007. **Application of Bayesian Technique for Ala Pepsi Softdrink Company in Sampling Plan Design**. University of Sulaimani.

## Conferences and courses attended

- The Head of Committee of Equalization Certificate, Ministry of Higher Education & Scientific Research - 2023 -till now.
- Member, Biomedical Statistics and Informatics Journal - Since March 16, 2022
- Senior Member, Quality Assurance Committee, Ministry of Higher Education & Scientific Research - 2011
- ISO Coordinator, Ministry of Higher Education & Scientific Research - 2011

- Quality Control Committee Member, Kurdistan Region Universities - 2010
- Founder Member, Teachers' Union Syndicate - 2010
- Founder Member, Kurdistan Economist Syndicate, Erbil Branch (Department of Statistics) - 2009
- Committee Member, Renting Dormitories for College Students - 2009
- Representative, Ministry of Higher Education & Scientific Research, UNESCO's Programme for Modernization of the Education Sector in Iraq

## Professional memberships

- Member of teachers syndicate / Erbil / Kurdistan Region.

## Professional Social Network Accounts:



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