

Curriculum Vitae

Dr. Hamid H. Hussien

Associate Professor of Statistics

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[Profile Link](#)

Personal Information

- **Date of Birth:** January 1, 1969
 - **Nationality:** Sudanese
 - **Marital Status:** Married
 - **Gender:** Male
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Professional summary

Associate Professor of Statistics with over 20 years of experience in quantitative research, higher education teaching, and interdisciplinary collaboration. Research expertise spans statistical and epidemiological modelling, social and behavioural determinants of health, econometrics, time-series analysis, multivariate methods, and applied data science, with strong emphasis on policy-relevant and societally impactful research.

Proven track record of high-quality peer-reviewed publications in international journals, addressing themes such as population health, social inequality, humanitarian crises, behavioural risk factors, and health outcomes across diverse contexts. Demonstrates the ability to design and lead independent research programmes, contribute to collaborative grants, and deliver outputs aligned with research impact, knowledge exchange, and translational value.

Extensive experience in undergraduate and postgraduate teaching, curriculum development, and supervision of MSc and PhD students, with a commitment to research-led teaching and inclusive learning environments. Skilled in mentoring early-career researchers and contributing to academic governance, quality assurance, and peer review. Highly experienced in working across disciplines—including epidemiology, behavioural science, social science, economics, and public health—and in communicating complex statistical findings to non-technical audiences, policymakers, and multidisciplinary teams.

Education

- **Ph.D. in Statistics**, Sudan University of Science and Technology (2002)
 - **M.Sc. in Statistics**, Universiti Sains Malaysia (1999)
 - **B.Sc. in Econometrics & Social Statistics**, University of Khartoum (1991)
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International Advanced Training and Short Courses

- **2007** – Advanced Course in **Epidemiological Data Analysis**, London School of Hygiene & Tropical Medicine (LSHTM), London, UK.
- **2006** – Advanced Training in **IDAMS Statistical Software** (UNESCO-supported programme), Cairo, Egypt.

- **2000** – Intensive Course in **IDAMS Statistical Software**, Cairo University, in collaboration with **UNESCO**, Egypt.
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Key Qualifications & Competencies

- Advanced research output meeting international academic standards (25+ publications in indexed journals)
 - Proven excellence in teaching and curriculum design for undergraduate and postgraduate programs
 - Experience in academic program development and quality assurance
 - Skilled in statistical software and programming (SPSS, MINITAB, STATA, R, Python, SQL)
 - Leadership in university governance and strategic planning
 - Extensive experience in graduate supervision (M.Sc. and Ph.D.)
 - Strong record of external consulting and capacity-building training programs
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Employment history

Associate Professor of Statistics

Department of Statistics, King Abdulaziz University (KAU), Rabigh, Saudi Arabia

2010 – May 2024

- Taught undergraduate and graduate courses in statistics, econometrics, and applied mathematics.
- Supervised MSc and PhD theses and research projects.
- Served as Head of the Department of Mathematics (2010–2012; 2014–2016).
- Member, Strategic Planning Committee, College of Arts and Sciences (2019–2022).
- Contributed to curriculum reform, accreditation preparation, and faculty governance.

Associate Professor of Statistics

Kordofan University, El-Obeid, Sudan

2007 – 2010

- Delivered undergraduate and postgraduate courses in biostatistics, probability, and regression analysis.
- Served as Dean, College of Commerce (2008–2010).

Assistant Professor of Statistics

Sudan University of Science and Technology, Khartoum, Sudan

2002 – 2007

- Taught undergraduate and postgraduate statistics and econometrics courses.
- Supervised postgraduate research and provided statistical consulting services.

Founder and General Director

Sudan Integrated Solutions Centre, Sudan

2001 – 2007

- Established and managed a research, data analysis, and statistical consulting center.
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Administrative leadership

- Committee Chair, Establishment of B.Sc. in Data Science Program, KAU (2022)

- Strategic Planning Member, King Abdulaziz University College of Arts and Sciences, (2019–2022)
 - Head, Department of Mathematics, King Abdulaziz University (2010–2016)
 - Program Coordinator for Statistical Courses, King Abdulaziz University (2014–2016)
 - Dean, College of Commerce, Kordofan University (2008–2010)
 - Head, Department of Statistics, Sudan University of Science and Technology (2005–2007).
 - (2019-2022), An active member in the strategic plan of King Abdulaziz University's College of Arts and Sciences
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Teaching experience

Undergraduate and Graduate Teaching

- Elementary & Business Statistics
- Probability and Distribution Theory
- Statistical Inference
- Regression Analysis
- Time Series Analysis
- Econometrics
- Design of Experiments
- Stochastic Processes
- Multivariate Statistical Analysis
- Biostatistics
- Research Methodology

Teaching Effectiveness

- Consistently positive student feedback (formal evaluations available upon request).
- Strong commitment to student-centered learning, assessment quality, and curriculum alignment with learning outcomes.

Additional Teaching Roles

- Coordinator, Biostatistics – Faculty of Laboratory Science, Sudan University of Science and Technology.
 - Medical Statistics Instructor – Faculty of Medicine, Kordofan University.
 - Examiner, Sixth-Year Medical Students, Kordofan University.
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Supervision and mentoring

- PhD Dissertations: 5 completed
 - MSc Theses (Research): 10+
 - MSc Projects (Coursework): 10+
 - Ongoing mentorship of junior faculty and postgraduate researchers.
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Research interests and grants

Research Interests

- Statistical and Mathematical Modeling
- Econometrics and Labor Economics
- Stochastic Processes
- Time Series Analysis
- Biostatistics and Epidemiological Modeling
- Data Science Applications in Health and Social Sciences

Research Grants

- Principal Investigator and Co-Investigator on 7 competitively funded research projects awarded by:
 - Deanship of Scientific Research, King Abdulaziz University
 - Sudanese Ministry of Higher Education
- Total funding exceeding USD 120,000, covering:
 - Malaria transmission modeling and early warning systems
 - Road safety and accident prediction
 - Education and labor market outcomes
 - Social network data analytics
 - Groundwater quality forecasting

Consulting experience

Provided professional statistical consulting for national and international organizations including:

- United Nations DDR Program (Sudan), data analysis and survey design (2005–2009)
- Statistical Advisor, *Northern Kordofan Population Census* (2008).
- University of Khartoum and Sudan University, research design and data analysis (2003–2007)
- Chairman, Statistical Consulting Service, Sudan University of Science and Technology (2003–2006).
- Member, *Malaria Early Warning Working Group*, Sudan (2007–2009)
- Designed and delivered 40+ training programs in applied statistics and research methods for academic and government institutions.

Honors and awards

- Excellence Award, Department of Mathematics, King Abdulaziz University (2023).
- Sudan Ministry of Higher Education Award for Research on Malaria Early Warning Systems (2016).

Publications

1. Hussien, H. H., Genawi, K. R., & Hagabdulla, N. H. (2025). Advances in statistical modelling of epidemics: Estimation and innovations. *Asian Journal of Advanced Research and Reports*, 19(8), 282–306. <https://doi.org/10.9734/ajarr/2025/v19i81130>
2. Hussien, H. H., Hagabdullah, N. H., Ahmed, K. M., & Alotaibi, K. N. (2025). The role of statistical modelling in sustainable tourism planning: A methodological perspective. *Journal of Research in Business and Management*, 13(8), 30–34. <https://doi.org/10.35629/3002-13083034>
3. Hussien, H. H., & Ahmed, R. H. (2025). The humanitarian crisis in Sudan: Multifaceted impacts of armed conflict on health, education, and displacement. *Sociological Research and Innovation*, 3(1), 76–99. <https://doi.org/10.32350/sri.31.04>
4. Hussien, H. H., Hagabdulla, N. H., Ahmed, K. M., Albadwi, F. I. A., & Alotaibi, K. N. (2025). The impact of economic growth on public health and well-being: An empirical analysis of Saudi Arabia. *Journal of Open Innovation: Technology, Market, and Complexity*, 11(3), 100564. <https://doi.org/10.1016/j.joitmc.2025.100564>
5. Hussien, H. H., Genawi, K. R., Hagabdulla, N. H., & Ahmed, K. M. (2025). Understanding the basic reproduction number (R_0): Calculation, applications, and

- limitations in epidemiology. *Open Journal of Epidemiology*, 15(2), 272–295.
<https://doi.org/10.4236/ojepi.2025.152018>
6. Hussien, H. H., Elhafian, M. H., & Sidahmed, A. O. (2025). Towards a human life index: Assessing human development in the Arab countries. *Quality & Quantity*, 1–18. <https://doi.org/10.1007/s11135-025-02174-y>
 7. Hussien, H. H. (2025). Does education impact an individual's earnings? An application of quantile regression and the Mincerian model to data from Saudi Arabia. *Heliyon*. <https://doi.org/10.2139/ssrn.4936291>
 8. Elhafian, M. H., Hussien, H. H., & Alghamdi, A. S. (2025). Is mobile phone use while driving prevalent? Evidence from Saudi Arabia. *International Journal of Advanced and Applied Sciences*, 11(12), 95–102.
<https://doi.org/10.21833/ijaas.2024.12.010>
 9. Hussien, H. H. (2023). The impact of COVID-19 vaccination coverage on reducing disease burden: A data-driven analysis comparing higher-income and lower-income countries. *International Journal of Advanced and Applied Sciences*, 10(2), 75–83.
<https://doi.org/10.21833/ijaas.2023.01.020>
 10. Hussien, H. H. (2020). Modeling the influence of climate factors on malaria transmission dynamics in North Kordofan State, Sudan. *Advances in Infectious Diseases*, 10(5), 123–136. <https://doi.org/10.4236/aid.2020.105017>
 11. Hussien, H. H. (2020). Modeling the impact of education on individual earnings: 2019 evidence from Sudan. *Technium Social Sciences Journal*, 14(1), 296–308.
<https://doi.org/10.47577/tssj.v14i1.2058>
 12. Hussien, H. H. (2020). Descriptive epidemiological analysis of the coronavirus disease 2019 (COVID-19) pandemic. *International Journal of Advanced and Applied Sciences*, 7(12), 105–112. <https://doi.org/10.21833/ijaas.2020.12.012>
 13. Hussien, H. H. (2020). Estimating the risk of death from COVID-19 in Saudi Arabia. *International Research Journal of Medicine and Biomedical Sciences*, 5(3), 45–52.
<https://doi.org/10.15739/irjmbms.20.007>
 14. Hussien, H. H., Elhafian, M. H., & Osman, A. H. (2020). Analysis of social network comments using feature selection and random forest algorithms. *International Journal of Computer Science and Network Security*, 20(4), 102–110.
<https://srb.sdl.edu.sa/esploro/outputs/9934212208331>
 15. Hussien, H. H. (2020). Epidemiological descriptive analysis of 2019 disease outbreaks in Sudan. *Open Journal of Epidemiology*, 10(4), 387–400.
<https://doi.org/10.4236/ojepi.2020.104033>
 16. Hussien, H. H. (2019). Malaria's association with climatic variables and an epidemic early warning system using historical data from Gezira State, Sudan. *Heliyon*, 5(3), e01375. <https://doi.org/10.1016/j.heliyon.2019.e01375>
 17. Eissa, F. H., Wu, S.-J., & Ahmed, H. H. (2019). Estimation of the parameters and expected test time of exponentiated Weibull lifetimes under Type II progressive censoring scheme with random removals. *International Journal of Statistics and Probability*, 8(2), 124–138. <https://doi.org/10.5539/ijsp.v8n2p124>
 18. Hussien, H. H., Eissa, F. H., & Awadalla, K. E. (2017). Statistical methods for predicting malaria incidences using data from Sudan. *Malaria Research and Treatment*, 2017, Article 4205957. <https://doi.org/10.1155/2017/4205957>
 19. Hussien, H. H., & Eissa, F. H. (2016). Identifying hazardous road locations in Saudi Arabia. *Global Advanced Research Journal of Engineering, Technology and Innovation*, 5(1), 45–56. <https://www.researchgate.net/publication/309291982>

20. Ahamed, H. H., & Hafian, M. H. (2016). An investigation of the mobile phone use while driving among drivers: Jeddah, Kingdom of Saudi Arabia. *International Journal of Applied Research and Studies*, 8(8), 45–52.
<http://dx.doi.org/10.20908/ijars.v8i8.11278>
21. Hussien, H. H. A., & Awadalla, K. E. (2011). Application of logistic regression in predicting spread of cancer. *ICASTER Journal of Mathematical Sciences*, 5(1), 45–54.
22. Hussien, H. H. A. (2005). An investigation of the maximal number of offspring in Galton–Watson processes with immigration. *Sudan Journal of Basic Science*, 12.
23. Hussien, H. H. (2004). Mathematical model for forecasting malaria epidemic in Sudan. *Sudan Journal of Basic Science*, 8, 30–42.
24. Ahmed, H. H., Elemin, K., & Hussien, H. H. (2009, October). Standards of logistic regression in medical research. Paper presented at the *4th International Conference on Research and Education in Mathematics*, Universiti Putra Malaysia, Malaysia.
25. Ahmed, H. H. (2009, October). Investment in Sudan: Opportunities and obstacles. Paper presented at the *24th Conference on Foreign Investment in Arabic Countries*, Mansoura University, Egypt.
26. Hussien, H. H. A., & Mustafa, M. M. (2013). Socio-economic factors of age at first marriage of ethnic group women in Sudan. *Wulfenia Journal*, 20(5), 171–181.
27. Hussien, H. H. A., Atwa, R. A., & Helmy, F. E. (2013). Investigation of the process of a (D/GI/K/0) loss system for independent random time delays distribution. *Wulfenia Journal*, 20(7), 316–328.
28. Hussien, H. H. (2004). An investigation of the maximal number of offspring in Galton–Watson processes with immigration. *Journal of Mathematical Sciences*, 5(1), 57–64.

Professional service

- Reviewer for international journals in statistics, epidemiology, and public health.
- Active participation in departmental, college, and university committees.
- Community service through applied statistical consulting and capacity-building workshops.

Professional memberships

- International Association of Statistical Computing (IASC)
- Sudanese Statistical Society

Names and contact information of three references

1. Prof. Maagli Habib, Department of Mathematics, University of Tunis, El Manar
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2. Dr. Ibrahim Abdalla Alfaki, Professor (Associate). College of Business & Economics, Emirates University, Al Ain, United Arab Emirates. E-mail: i.abdalla@uaeu.ac.ae
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