



# HAMDI AL-HAKIMI

RESEARCH CONSULTANT AND BIOSTATISTICIAN

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## ABOUT ME

A highly experienced consultant with a strong background in epidemiology, biostatistics, and research methodology. Demonstrated expertise in leading and supervising academic programs, conducting groundbreaking research, and implementing effective public health strategies.

Skilled in statistical analysis and proficient in a range of software tools, including SPSS, the R program, and Python. Well-versed in artificial intelligence algorithms such as Neural Networks, Support Vector Machine, and Random Forest. Additionally, experience with other specific-use software, such as Pajek for Social Network Analysis and Berkeley Madonna software (Mathematical modeling of epidemics).

Preparing and analyzing complex clinical datasets, generating actionable insights, and developing innovative models to detect and predict diseases. Proven ability to collaborate with multidisciplinary teams and deliver comprehensive training sessions. Committed to improving global health outcomes through evidence-based approaches and strategic decision-making.

## LANGUAGES

ARABIC

ENGLISH

DUTCH

## LINKS

Artificial Intelligence Solutions for Healthcare:  
<https://medgebra.com/>

LinkedIn:  
<http://www.linkedin.com/in/hamdi-alhakimi-92954565>

Tweeter:  
[http://@research\\_con](http://@research_con)

## WORK EXPERIENCE

- CEO**  
Utrecht  
Feb 2023  
**Establishment of MedGebra for Artificial Intelligence Solutions in Healthcare**  
At MedGebra, we provide AI solutions for healthcare, as we understand the critical nature of healthcare data and prioritize the security and privacy, particularly in health colleges, hospitals, and other healthcare facilities. We assure you that our new Medical ChatBot is designed for on-premise installation, providing a secure and localized environment for health data.
- CONSULTANCY AGENCY**  
Utrecht  
Dec 2022 - Present  
**Research Consultant**  
A consulting agency for health research and health data analysis. My last client was the World Health Organization, with a contract of 8 weeks for advanced analysis of health data.
- UTRECHT UNIVERSITY**  
Utrecht  
Sep 2018 - Dec 2022  
**Researcher**  
Application of artificial intelligence in clinical diagnosis and prognosis.
- ALBAHA UNIVERSITY**  
Albaha  
Jan 2014 - Jan 2017  
**Assistan professor**  
Teaching research methodology, biostatistics, and health system management.
- PUBLIC HEALTH INSTITUTE**  
Khartoum  
Jan 2011 - Jan 2012  
**Lecturer**  
A lecturer in Epidemiology and Research Methodology

## EDUCATION

- UTRECHT UNIVERSITY**  
2022  
**Master in Epidemiology (Medical Statistics)**  
The thesis is titled " Use of Artificial Intelligence in the Diagnosis of Cardiac Arrhythmias"
- SUDAN MEDICAL SPECIALIZATION BOARD**  
2014  
**M.D. of Community Medicine**  
The thesis is titled " Social Network Modeling for Assessment of Tuberculosis Transmission from Index Cases to Household Contacts."
- LIVERPOOL SCHOOL OF TROPICAL MEDICINE**  
2012  
**Professional Diploma**  
Epidemiology in action
- PUBLIC HEALTH INSTITUE**  
2013  
**Master of Public Health**  
The Thesis is titled " Systematic Review: Bio-monitoring of Pesticide Chronic Toxicity using Cholinesterase and Cytogenetic Biomarkers among Exposed Workers "
- UNIVERSITY OF KHARTOUM**  
Khartoum  
2004  
**Bachelor of Science**  
Dental Surgery

## SKILLS

R PROGRAM (REFERENCE STATISTICAL SOFTWARE)	SPSS
PYTHON	ARTIFICIAL INTELLIGENCE ALGORITHMS
BAREKLY MADONA SOFTWARE (MODELING OF EPIDEMICS)	PLINK SOFTWARE (GENOME-WIDE ASSOCIATION STUDIES)
PAJEK SOFTWARE (FOR SOCIAL NETWORK ANALYSIS)	MICROSOFT EXCEL
META-ANALYSIS USING REVMAN OR CMA	CITATION MANAGEMENT (ENDNOTE)

## PUBLICATIONS

- JOURNAL OF CLINICAL AND ANALYTICAL MEDICINE**  
Sep 2023  
**Applications of Natural Language Processing in Cardiology using Text Clinical Data: A Systematic Review**
- BMJ OPEN, 13(2)**  
Jan 2023  
**Systematic review of intervention functions, theoretical constructs and cultural adaptations of school-based smoking prevention interventions in low-income and middle-income countries.**
- EUROPE BMC**  
Jul 2021  
**The impact of COVID 19 pandemic on pattern of cancer mortality in Najran, Saudi Arabia: A single-cancer center experience.**
- AIMS PUBLIC HEALTH 2(1)**  
Oct 2015  
**Epidemiological, Clinical and Entomological Characteristics of Yellow Fever Outbreak in Darfur 2012. AIMS Public Health. 2(1): 132-141.**
- EJPMR**  
Oct 2016  
**Monitoring Of Pesticides Chronic Toxicity Among Exposed Workers By Using Effect Biomarkers**
- SULTAN QABOOS UNIVERSITY MEDICAL JOURNAL**  
Sep 2014  
**Assessment of knowledge about oral cancer and modeling of background factors affecting this knowledge in Khartoum city.**