

**Kuwait University  
College of Social Sciences  
Curriculum Vitae**

**Name :** Dr. Muhammad G Al-Matar

**Department :** Geography

**CURRICULUM VITAE**

❖ **Specialization :**

- Geographic Information System
- Remote sensing
- Urban Geography
- Urban Planning
- Human Geography

❖ **Tiles of the Thesis :**

- PHD: Utilizing Geographic information system and remote sensing to investigate urbanization process: in both U.S. and Kuwait.  
<http://ufdc.ufl.edu/UFE0043537/00001>
- Master of Sciences: Using remote sensing and GIS to study land- use land- cover change in Alachua country, FL from 1993 to 2003.

❖ **Academic Qualifications and Employment History :**

- High school teacher 2003-2004
- T.A 2004-20011.
- Assistant prof. 2011- Until now.

❖ **University Teaching :**

- Introduction to Geography
- Introduction to GIS
- Application in GIS
- Designing Database in GIS
- Human and Environment Geography
- Population Geography
- Political Geography
- Advance Geography Information System for Master Program
- Services and facilities planning and decision making
- Urban Planning Theories
- Land use and urban Planning
- Urban and regional Planning (Master program)
- Advance population geography (Master program)

❖ **Membership in Scientific Societies :**

- Member of Geography Association in GCC universities.
- Former member in FAG.
- Member of AAG, 2014“Association of American Geographer”.
- Member of Geography Association of Kuwait.
- Member of Canadian Geographer Association.

#### ❖ **Attendance of Scientific Conferences :**

- Florida Association of geographer conference 2006.
- DGI 21-23 January, London.
- 2nd annual World Intelligent Cities Summit and Exhibition 2013.
- AAG Association of American Geographer, Tampa (Florida) 2014.
- Applied Geography Conference on October 2014 (Alanta, Ga).
- Applied Geography Conference October 2015 (San Antonio, TX).
- Gulf Research Meeting, Cambridge University 2016.
- 18th International Conference on Remote Sensing (Osaka, JP) 2016.
- ICSSEG 2018: 20th International Conference on Social Sciences, Economics and Geography.
- (International Geographical Union (IGU) Regional Conference - Canadian Association of Geographers (CAG) 2018.
- ICDIR 2019 : 21th International Conference on Diagnostic Imaging and Research

#### ❖ **Extramural Activities and Community Services :**

- Presenting a paper titled "The use of remote sensing and geographic information systems to determine the difference between the cities and residential neighborhoods with dense vegetation," it was introduced in October 2014 in "applications in geography" conference in the US city of Atlanta.
- Give a lecture entitled "The Right start in Geographic Information Systems" conference discovered a second GIS place in Kuwait on May 27 to 28, 2014.
- Give a lecture entitled "Remote Sensing" in Sheraton hotel for the management of military intelligence, in a regular meeting of the Gulf Cooperation Council, the organization department of space on 18/02/2014.
- Presenting a paper titled “Urban surface temperature changes using RS and GIS” in ISPRS meeting March 2015.
- Presenting “ Urban Cool Island using RS and GIS” in Applied Geography conference, san Antonio, TX in OCT 2016.
- Presenting a paper in “Investigating Failaka Island, land use and land cover change, using GIS and RS: study in geography and Geo-archaeology.” in IGU Regional Conference and Annual Meeting of the CAG (Quebec City, Canada) 2018.
- Giving lecture of the use of GIS and RS in emergency and environmental crisis, The 10<sup>th</sup> Geography meeting “Global climate change and crisis” 2019 KU.

#### ❖ **Research and Creative Activities :**

- **Almatar, M.** (2011). Utilizing Geographic Information Systems and Remote Sensing to Investigate Urbanization Processes: In Both the US and Kuwait. University of Florida.
- **Almatar, M and AlNasrallah, M.** (2018). Using Geographic Information Systems and Spatial Analysis to Study Leukemia in the State of Kuwait for the Period Between (2006-2012), Journal of the Faculty of Arts - Cairo University, Volume (78), Issue (3), pp. 109-153, Arab Republic of Egypt.
- **Almatar, M.** (2018). An analytical study of the distribution of nurseries in the State of Kuwait using geographic information systems, Journal of Social Sciences, Journal of Social Sciences, Scientific Publication Council - Kuwait University, Volume (46), Issue (1), pp. 253-277, State of Kuwait.
- **Almatar, M.** (2019). Analysis of the Distribution of Marriage and Divorce in the State of Kuwait from 2003-2015 Using Geographic Information Systems, Journal of Gulf and Arabian Peninsula Studies - Scientific Publication Council - Kuwait University, Volume (45), Issue (174), pp. 99-139, State of Kuwait.
- **Alnasrallah, M. & Almatar, M.** (2019). The Prevalence of Obesity in Kuwait: A case Study among Kuwait University Students Using GIS, Journal of Social Science, Academic Publication Council- University of Kuwait, Vol (47), No (2), pp 39-52 , State of Kuwait.
- **Hassan, A. Almatar, M. Torad, M. & Allen, C.** (2020). Environmental Urban Plan for Failaka Island, Kuwait: A Study in Urban Geomorphology, Sustainability, Vol 12(17), No 7125, Switzerland. <https://www.mdpi.com/2071-1050/12/17/7125>.
- **Al Matar, M. Ashkanani, H., & Hassan, A.** (2020). Investigating Land-use and “Land-cover changes of Failaka Island: A study in Geography and Geoarchaeology”. Journal of Social Sciences, Academic Publication Council.
- **Almatar, M.; Alazmi, H.S.; Li, L.; Fox, E.A.** Applying GIS and Text Mining Methods to Twitter Data to Explore the Spatiotemporal Patterns of Topics of Interest in Kuwait. ISPRS Int. J. Geo-Inf. 2020, 9, 702. <https://doi.org/10.3390/ijgi9120702>
- **Qambar, H & Almatar, (2023).** The geographical distribution of advertisements and its impact on the urban landscape and population in Kuwait City. Approved for publication in the Journal of Social Sciences, Scientific Publication Council - Kuwait University, State of Kuwait.
- **Almatar, M & Alraqeeb, A.** (2023). Simulating temporal and spatial patterns of urban growth in the State of Kuwait using the integrated CA-Markov model during the period (2045-2002). Arab Geographical Journal, Egyptian Geographical Society, Volume (54), Issue (81).
- **Almatar, M & Aldalmani, M.** (2024). A geographical survey study on the sources and effects of traffic noise pollution on urban residents in the State of Kuwait. Arab Geographical Journal, Egyptian Geographical Society, Geographical Research Series, Issue (196).
- **Almatar, M** (2024). Spatial analysis of mosque locations in the State of Kuwait using geographic information systems. Accepted for publication in the Journal of Gulf and Arabian Peninsula Studies - Scientific Publication Council - Kuwait University.
- **Alghais, N. Almatar, M.** (2024). Analyzing the Fertility Rate Trends in Kuwait with GIS Between 2014 and 2024. Papers in Applied Geography: Routledge.
- **Alnasrallah, M. Almatar, M.** (2024). Examining Geographic Disparities in Fatal Automobile Accidents Across Kuwait Using GIS. Papers in Applied Geography: Routledge.
- **Almatar (2024).** A study of the demographic variables affecting the speed of receiving the Covid-19 vaccine by applying the theory of diffusion of innovations using geographic information systems: A case study of Hawalli Health Governorate. Approved for publication in the Journal of Social Sciences, Scientific Publication Council - Kuwait University, State of Kuwait.

### ❖ **Supervision of M. A. and Ph.D. Thesis :**

- “Applied GIS: Study traffic accidents in Mubarak-AlKabeer, Kuwait” in the year of 2014-2015 for the student Mohammad Aman.
- Supervising a thesis entitled “Evaluation of Educational Services in Kuwait” for the student Mishaal Al-Mutairi 2018.
- Participation in supervising a thesis entitled “A Study of Waste Landfills in Kuwait” for student Sarah Al-Adwan 2022.
- Supervising a thesis entitled “A geographical study on (the impact of visual pollution on the health of the residents of Kuwait City)” for the student Hussein Ahmed Qambar 2022.
- Supervising a thesis entitled “A Study of Noise Pollution in the State of Kuwait” for student Maryam Al-Dalman 2023.
- Supervising a thesis entitled "A Geographical Study of Multiple Sclerosis" for student Batoul Al-Balushi 2023.
- Participation in supervising a thesis entitled “Agricultural Holdings and Food Security in Abdali and Wafra Regions Using Geographic Information Systems 2023.”
- Supervising a graduation project entitled “The Impact of Reeds as an Invasive Plant on Kuwaiti Ecosystems” for student Mansour bin Sayer Al-Dhafiri 2023.
- Supervising a graduation project entitled “A Study on the Effectiveness of the Water Treatment Plant in the Al-Wafra Area” for the student Muhammad Rajab Mustafa 2023.
- Supervising a graduation project entitled “Using spatial analysis to identify flood-prone areas in new urban areas in the State of Kuwait using geographic information systems and remote sensing” for student Dana Al-Fadhli 2024.
- Supervising a graduation project entitled “A study of the impact of establishing Al Shaheed Park on surface temperatures in Kuwait City using geographic information systems and remote sensing” for the student Hanan Hamad Al Mutairi 2024.
- currently supervising a study entitled “The Phenomenon of Drug Addiction from the Perspective of Behavioral Geography in the State of Kuwait” by the student Fawaz Tariq Al-Baqer.
- currently supervising a thesis entitled “Using Geographic Information Systems and Remote Sensing to Identify Coastline Changes in the Southern Islands of the State of Kuwait” for student Reem Saleh Al-Harbi.
- currently supervising a project entitled “Using Geographic Information Systems to study Traffic accident in Kuwait” for student Shaima Alzgaier.