

Academic Curriculum Vitae



Personal Information:

Full Name: Huner Abdulla Kak Ahmed Khayyat

Academic Title: Assistant Professor

Email: (huner.khayyat@su.edu.krd)

Mobile: 00964 750 455 8655



Biography:

Huner Khayyat Started working at Salahaddin University - Erbil in March 1998 as a scientific researcher in the Geography Department - College of Arts.

Dr. Huner Khayyat has more than fifteen years of GIS experience working for NGOs, private sector companies, and for several Kurdistan Regional Government (KRG) Ministries as a GIS consultant and data analyst.

Dr. Huner Khayyat holds Ph.D. in GIS & Remote Sensing – Climate Change with distinction from a joint PhD. research program between the University of Rome – La Sapienza and Salahaddin University – Erbil, and holds an MSc. with distinction in GIS & Remote Sensing Applications in Urban Planning and Urban Land Use Administration from the Salahaddin University – Erbil. He also holds a Postgraduate Diploma (PGD) in Geo-Information Science and Earth Observation (Urban Planning and Management Domain) / International Institute for Geo-Information Science and Earth Observation (ITC) – University of Twente - Enschede, The Netherlands.

Dr. Huner Khayyat worked as a lecturer in different fields and topics to Postgraduate (Ph.D. and MSc.) and bachelor stage, like Applied GIS in Geology, Advanced GIS for Geology, Urban Geography, GIS, RS, Geomorphology, Physical Geography "in English", Human Geography "in English, Regional Planning, Geography of Natural Resources, Geography of the two America continents,.... etc.

Dr. Huner Khayyat is a co-founder of Kurdistan Geographers society and has more than 10 research pieces and articles published in different GIS, Remote Sensing and Geographic fields and contributed as co-author for a book entitled “Environmental Remote Sensing and GIS in Iraq” by Springer Nature.

Education:

- 2018: Ph.D. in GIS & Remote Sensing, LULC Administration and Climate Change under a joint Ph.D. research program between the University of Rome "La Sapienza" - Geodesy and Geomatics Division / Department of Civil, Building and Environmental Engineering / Faculty of Civil and Industrial Engineering & Department of Geography – College of Arts – University of Salahaddin \ Erbil.
- 2008: Postgraduate diploma (PGD) in Geo-Information Science and Earth Observation (Urban Planning and Management Domain) / International Institute for Geo-Information Science and Earth Observation (ITC) – Enschede, The Netherlands
- 2006: MSc. in GIS & Remote Sensing Applications for Urban planning and Urban Land Use Administration - Salahaddin University, Erbil, Iraq
- 2004: Completed 2 Masters level courses in the department of Ecological & Health Engineering / Collage of Engineering / Technological University, Baghdad, Iraq
- 1996: Bachelor’s degree in Geography / Salahaddin University, Erbil, Iraq

Employment:

Dates: October 2005- Precent	Position: Senior Lecturer Assistant Professor of Geoinformation – Climate Changes	Company/Agency: University of Salahaddin – Erbil – Department of Geography.
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Duties and Responsibilities:

- Member of the senior committee of managing the central GIS & RS Lab. of Salahaddin University – Erbil.
- Delivering lectures for different undergraduate and postgraduate students in the following subjects:
 - Advanced GIS and Spatial Analysis
 - Fundamentals of Remote Sensing
 - Regional Planning
 - Human Geography
 - Geography of Natural Resources
 - Urban Geography
 - Fundamentals of Geomorphology
 - Principles of Surveying
 - The Geography of Anglo Secson & Latin America
 - Regional Planning
 - GIS and Remote Sensing and Information Management for Geographers.
- Supervising Graduate Researches of fourth-Class Students including teaching research methods and preparations.
- Assisting the staff of Geography Department in any scientific issues and request.

Date: September /2018 - 2022	Position: Senior GIS Officer	Company/Agency: iMMAP
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Duties and Responsibilities:

- Complete the qualitative and quantitative Mine Action database cleanup process in coordination with Mine Action Center operations on a national and regional level.
- Perform a monthly audit of mine action information to ensure data completeness, integrity and quality.
- Coordinate the installation of the IMSMA system, developing the database and making sure that the overall system is operational and meets the operational needs of the MAC.
- Prepare maps to show all mine action program activity integrated with related factors and data analysis on GIS.
- Provide monthly data analysis maps based on monthly standard reports for current hazards area contamination.
- Coordination and control of all GIS functionalities with all the Area Mine Action Centers (MAC) and iMMAP staff.
- Provide direction and GIS guidance to the MAC director and regional IMSMA staff.
- Ensures implementation and development of IM strategies and standards
- Full compliance with corporate information management and technology standards, guidelines and procedures for the iMMAP office technology environment.
- Play a key role in streamlining of internal information management processes in the iMMAP office through training and assistance with establishment of relevant guidelines and procedures.
- Ensures repository of data through effective database management
- Ensures availability of updated information for informed decision making by iMMAP and partners by consistently updating and maintaining the existing databases.
- Supports creation of new databases to meet the information requirements of iMMAP and the stakeholders.
- Acts as the first line support for all GIS database related requests from internal and external users in particular related to the IMSMA and security incidents databases.
- Creates effective and attractive development of mapping products using ArcGIS and other mapping tools using iMMAP templates and styles, ensuring that they are appealing and adequately detailed, and effectively communicating key information to users.
- Effective contribution of maintaining a repository of important raw data such as geo-datasets and other similar databases.
- Ensures effective digital designing support which Effectively represents information through graphical media, i.e, graphs, charts, presentations etc., using advanced designing programmes, ensuring their attractiveness and effectiveness in communicating key messages.
- Support strategic decision making through by processing data and information and presenting them in the format most useful for analysis.
- Develop and maintain additional information systems using appropriate software platforms to meet any additional and ad-hoc information management needs.
- Design and manage content on web resources to effectively disseminate information.
- Ensure backup and restoration procedures for information stored in servers and local drives.
- Ensure facilitation of knowledge building and knowledge sharing
- Identification and promotion of different systems and applications for optimal content management through the Organization of training for the iMMAP staff and partners and clients on GIS and IM tools etc. and Synthesis of lessons learned, and best practices directly linked to GIS and information management.
- Contributes to the development and implementation of a dissemination strategy for all information products (e.g. reports, data, and maps) through appropriate media, i.e. hard copy, standalone executable programmes, CD-ROMs, websites.

- Supports strategic and operational decision-making by processing and analyzing data and information and presenting it in the format most useful for analysis (e.g. reports, maps).
- Collection, cleaning, consolidation and documentation (metadata) relevant spatial and not-spatial datasets in line with iMMAP “Country Level Minimum Common Operational Datasets”
- Preparation of baseline inventory of spatial and attribute datasets with regular update.
- Ensure the successful implementation of the standard working procedures for information management and GIS within national mine action office.
- Assist the Technical Advisor with the development of GIS training packages and conducting different level for national mine action staff.
- Ability to visit Iraq provinces whenever required for any Information Management technical issues.
- Assist the information management technical advisor in developing the work plan and highlight technical requirements to improve capacity building.
- Working on the creation and maintenance of web-based GIS services.
- Complete additional tasks assigned by the information management technical advisor and Country representative.

Date:	Position:	Company/Agency:
October /2016 – August/2018	Information Management & GIS Officer	iMMAP

Duties and Responsibilities:

- Completing the qualitative and quantitative Mine Action database cleanup process in coordination with Mine Action Center operations on a national and regional level.
- Performing a monthly audit of mine action information to ensure data completeness, integrity and quality.
- Coordinating the installation of the IMSMA system, developing the database and making sure that the overall system is operational and meets the operational needs of the MAC.
- Preparing maps to show all mine action program activity integrated with related factors and data analysis on GIS.
- Providing monthly data analysis maps based on monthly standard reports for current hazards area contamination.
- Coordinating and controlling of all GIS functionalities with all the Area Mine Action Centers (MAC) and iMMAP staff.
- Coordination and control of all GIS functionalities with all the Area Mine Action Centers (MAC) and iMMAP staff.
- Ensure the successful implementation of the standard working procedures for information management and GIS within national mine action office
- Preparing and managing web maps and online mapping techniques and dashboards and GIS applications.
- Work directly with national authority and humanitarian NGO working in Iraq to provide ideas about mobile data collection.
- Assist and support implementation of trainings, meetings, conferences, workshops, and all IM activities planned by iMMAP Iraq team.
- Providing direction and GIS guidance to the MAC director and regional IMSMA staff.
- Ensuring the successful implementation of the standard working procedures for information management and GIS within national mine action office.
- Assisting the Technical Advisor with the development of GIS training packages and conducting different level for national mine action staff.
- Design software/tools and dashboard to share IM products with other UN clusters and humanitarian NGOs.

- Working on creating web maps and customized web apps for humanitarian requirements.
- Delivering different GIS coerces for different levels and software's (ArcGIS Desktop, ArcGIS Pro.).
- Assisting the information management technical advisor in developing the work plan and highlight technical requirements to improve capacity building.
- Completing additional tasks assigned by the information management technical advisor and Country representative.

Date: Dec/2014 - May 2016	Position: GIS Consultant	Company/Agency: KRG – Ministry of Interior - JCC / Joint Crises Coordination Center
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Duties and Responsibilities:

Design and Implement a GIS system that acts as an information analysis and presentation tool for areas of concern to JCC's mandate.

- Create and maintain data and/or maps that can be combined with geographically referenced data and to relate different types of data such as socioeconomic, demographic, administrative or political boundaries, land use, land cover, environmental, infrastructure, and transportation networks.
- Established a webGIS system and web mapping platform using webapp builder, and established mobile data collection using collector for ArcGIS and
- Create maps and graphs, using GIS software and related equipment.
- Continuously mentor and provide on-the-job training to JCC staff and management in the area of crisis response planning;
- Conduct research to locate and obtain existing databases. Gather, analyse, and integrate spatial data from staff and external sources and determine how best the information can be displayed using GIS.
- Compile geographic data from a variety of sources including censuses, field observation, satellite imagery, aerial photographs, and existing maps.
- Analyse geographic relationships among varying types of data.
- Operate and maintain GIS system hardware, software, plotter, digitizer, color printer.
- Enter new map data through use of a digitizer or by direct input of coordinate information using the principles of cartography including coordinate systems, longitude, latitude, elevation, topography, and map scales.

Dates: October /2009 -January /2016	Position: Consultant GIS Consultant	Company/Agency: Khatib & Alami and ESRI Lebanon
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Duties and Responsibilities:

- Managing Khatib & Alami and ESRI Lebanon GIS works and activities in Kurdistan region/Iraq.
- Working with Khatib & Alami and ESRI Lebanon in different projects in Kurdistan region especially issues relates to GIS, Surveying and mapping.
- Working on business development and technical support for clients and projects in Kurdistan region + contacting different ministries and government offices for GIS services and support and projects.

- Support different K & A projects in Kurdistan region with field works and GIS & GPS related works + preparing different maps for K & A projects and managed and supervised several projects with field data collection and analyzing and mapping outcomes.
- Worked on creating and managing geodatabases for several projects in Kurdistan Region – Iraq and prepared final outcomes and reports of analysis for Masterplans for 10 cities and CAD/AVL system for the ministry of health.

Dates: April 2009-September 2009	Position: Consultant GIS & Mapping Consultant and Senior GIS Analyst	Company/Agency: KRG - MOM (Kurdistan Regional Government – Ministry of Municipalities), Iraq
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Duties and Responsibilities:

- Worked with MOM Staff to install and make operational new GIS Lab and related equipment's.
- Worked with MOM staff to install the existing KRG GIS data base onto GIS center personal computers.
- Worked with GIS center manager in the identification and recruitment of qualified GIS analysts.
- Promoted the use of GIS capabilities within MOM.
- Conducted different trainings and workshops for different GIS functionalities and tools and applications.
- Assisted in different process of field data collection using GPS for MOM projects.
- Assisted in giving and managing different GIS tasks for MOM_GIS staff and supporting them in the works.

Dates: August 2005-March 2008	Position: GIS & Mapping Specialist / Data Analyst.	Company/Agency: American University of Washington & Michel Moran Associate /Iraq Project
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Duties and Responsibilities:

- Supporting the AUMMA projects in Kurdistan region with GIS & GPS activities. Including preparing mapping, GIS reports, giving lectures in GPS trainings, and analyzing GIS data.
- Supporting the AUMMA projects in Kurdistan region with field coordination in general and especially related with mapping and GPS activities in the office and field.
- Assisting in all tasks and responsibilities given by the Senior Management in AUMMA including assisting in managing and supervising the field work of the census and fixing any faced problems in the field, and preparing daily reports about the activities for the Senior Management

Dates: August 2005-March 2008	Position: Consultant Consultant for GIS and Mapping & Touristic maps and guides.	Company/Agency: Kurdistan Regional Government – Ministry of Tourism
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Duties and Responsibilities:

- Preparing different tourism maps for Kurdistan region and city tourism maps for Kurdistan regions cities in different scales.
- Assisting the ministry of tourism for preparing tourism guides for Kurdistan region & Kurdistan regions cities.
- Assisting the ministry of tourism to prepare for a tourism survey for surveying all the tourism locations in Kurdistan region using GPS device to prepare them for uploading to the maps and preparing a strong documentation and achieve for the ministry of tourism.
- Supervising prepare the Atlas of Tourism and Archeology in Kurdistan region

Dates: January 2005-June 2006	Position: GIS Programmer Assistant	Company/Agency: JHIC – Joint Humanitarian Information Center
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Duties and Responsibilities:

- Assists in all GIS Data Entry and digitizing operations.
- Design, Digitize, Scan and edit maps and other geographic Information.
- Collected / Edited available data to prepare requested GIS layer.
- Prepare thematic maps for GIS production.
- Perform basic GIS/Statistical analyses maps outputs.
- Print various maps on request, using available GIS software.
- Designing and preparing Geodatabases for the map and products as request.
- Contributed and assisted in designing and preparing many different maps and Atlases and GIS products using different GIS software's (MapInfo, ArcGIS, ArcView).
- Delivering lectures for trainers from KRG ministry staff in GIS principles and GIS software's and learning digital mapping and using GPS for collecting data and points for the maps.

Dates: March 1998-September 2003	Position: Senior Researcher	Company/Agency: University of Salahaddin – Collage of Arts – Department of Geography
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Duties and Responsibilities:

- Responsible of Cartography Studio.
- Responsible of Library in Geography Department.
- Delivering lectures of Practical Cartography.
- Responsible of electronic equipment store in Geography Department.
- Participate in organizing many Computer and English Language learning courses for different levels.
- Register of Evening English Department.
- Delivering lectures of Computer for Different levels.
- Delivering lectures for the teachers and staff of the college of Arts in the computer course held by UNESCO and Computer Unit in the college of Arts.
- Manager of Dean's office.

Qualifications

- **Teaching qualifications:**

- Advanced GIS and Spatial Analysis
- Fundamentals of Remote Sensing
- Regional Planning
- Human Geography
- Geography of Natural Resources
- Urban Geography
- Fundamentals of Geomorphology
- Principles of Surveying
- The Geography of Anglo Secson & Latin America
- Regional Planning
- GIS and Remote Sensing and Information Management for Geographers.

- **IT qualifications:**

- ArcGIS (Desktop & Extensions), ArcGIS Pro, Portal for ArcGIS, ArcGIS Server, Portal WebApp Builder, IMSMA, ArcGIS Explorer, ArcPad, ERDAS, ENVI, IDRISI Selva, Terrset, Global Mapper, MS. Power BI and Building Dashboards, AutoCAD, SPSS, Adobe Photoshop, Adobe Illustrator, KOBO Collect, Survey123, ESRI Experience Builder, MS. Office Package.

- **Language qualifications:**

- English, Arabic, Turkish, Kurdish

- **Special Training/Certifications:**

Specialized Training	Certificates/Honors
Spatial Data Science: The New Frontier in Analytics, Esri online, 2022	Certificate, ESRI
ArcGIS Survey123 Basics, Esri online, 2022	Certificate, ESRI
Getting Started with Imagery and Remote Sensing, Esri online, 2022	Certificate, ESRI
Sharing 3D Content Using Scene Layer Packages	Certificate, ESRI
How to use R for Research, Udemy online, 2022	Certificate, UDEMY
Python A-Z: Learn Python for Scientific Research by Doing, Udemy online, 2022	Certificate, UDEMY
Creating a Web Map in ArcGIS Pro, Esri online, 2022	Certificate, ESRI
Prevention of sexual exploitation and abuse (PSEA), UNICEF, online, 2022	Certificate, UNICEF
Going Places with Spatial Analysis, Esri online, 2021	Certificate, ESRI
Imagery in Action, Esri online, 2021	Certificate, ESRI
Geostatistical Interpolation: Creating a 3D Prediction Surface, Esri online, 2021	Certificate, ESRI
Do-It-Yourself Geo Apps, Esri online, 2021	Certificate, ESRI
Getting Started with ArcGIS Drone2Map, Esri online, 2021	Certificate, ESRI
Spatial Data Science: The New Frontier in Analytics, Esri online, 2020	Certificate, ESRI
ArcGIS Indoors Basics, Esri online, 2020	Certificate, ESRI
Getting Started with Geoprocessing, Esri online, 2020	Certificate, ESRI

Specialized Training	Certificates/Honors
Getting Started with Spatial Analysis, Esri online, 2020	Certificate, ESRI
Model Builder with ArcGIS, UDEMY online, 2020	Certificate, UDEMY
Introduction to Suitability Modeling, Esri online, 2020	Certificate, ESRI
Cartography, Esri online, 2020	Certificate, ESRI
ArcGIS Maps for Office Basics, Esri online, 2019	Certificate, ESRI
Advanced Communication Skills, By Jasper Alliance London, 2018	Certificate, Jasper Alliance London
Emergency First Aid at Work, RPS Partnership, 2018	Certificate, RPS Partnership.
IMSMA training U2 Level, Iraq, iMMAP ,2017	Certificate, iMMAP
3D Virtual Reality Training, University of Rome \ La Sapienza & Risviel S.R.L. Company / Rome – Italy, 2014,	Certificate, University of Rome \ La Sapienza & Risviel S.R.L. Company
Advanced GIS project management, Esri Lebanon, Beirut – Lebanon, 2010	Certificate, ESRI Lebanon
Cycling Academic Network (CAN), ITC – University of Twente, Netherlands. 2008	Certificate, ITC – University of Twente, Netherlands
Advance surveyor training course (ToT) Training of Trainers, American University of Washington & Michael Moran's associates, Iraq 2006.	Certificate, American University of Washington & Michael Moran's associates
Advanced ArcGIS I&II (ToT) Training of Trainers InfoGraph- ESRI Distributer Amman, Jordan, 2005	Certificate, InfoGraph- ESRI Distributer Amman, Jordan
Building & Managing Geo database (ToT) Training of Trainers, InfoGraph- ESRI Distributer Amman, Jordan, 2005	Certificate, InfoGraph- ESRI Distributer Amman, Jordan
Design geo database & Arc extensions (ToT) Training of Trainers, InfoGraph- ESRI Distributer Amman, Jordan, 2005	Certificate, InfoGraph- ESRI Distributer Amman, Jordan
Survey training course with the Leica total station device TCR 1203 and the software Liscad 6.0, Al-Tawfiq Company – Leica Distributer / Amman – Jordan, 2005	Certificate, Tawfiq Company – Leica Distributer / Amman – Jordan.
Remote Sensing Techniques in Civil Engineering, Technological University in Baghdad, Iraq, 2004	Certificate, Technological University in Baghdad, Iraq
Advance Computer Hardware (ToT) Training of Trainers, UNESCO & Salahaddin University, Iraq, 2001.	Certificate, UNESCO & Salahaddin University, Iraq
Advance Computer Software (ToT) Training of Trainers, UNESCO & Salahaddin University, Iraq, 2001.	Certificate, UNESCO & Salahaddin University, Iraq

Teaching experience:

- Advanced GIS and Spatial Analysis
- Fundamentals of Remote Sensing
- Regional Planning
- Human Geography
- Geography of Natural Resources
- Urban Geography
- Fundamentals of Geomorphology
- Principles of Surveying
- The Geography of Anglo Secson & Latin America
- Regional Planning
- GIS and Remote Sensing and Information Management for Geographers.
- Social Policy
- Social work field practice and proficiency training.
- Casework Skills.
- Approach to Casework.

Research and publications

- Using CHIRPS Satellite Based Data for Spatio-Temporal Variability of Rainfall in Dashti Hawler District – Kurdistan Region of Iraq 1982 – 2019, 2022. (DOI: <http://doi.org/10.31918/twejer.2251.29>)
- Morphometric Analysis of Taq Taq Watershed / Koysinjq District, Iraqi-Kurdistan Region, 2022. (DOI: <https://doi.org/10.21271/zjhs.26.2.14>)
- Co-Author of a Book entitled: “Environmental Remote Sensing and GIS in Iraq” published in 2019 by Springer Nature. (DOI: https://doi.org/10.1007/978-3-030-21344-2_19)
- Analyzing and Quantifying Rainfall Changes in Erbil Area 1992 – 2014 Using WMO- SNP Standard Normal Period, 2018. (DOI: <http://dx.doi.org/10.31257/2018/JKP/2019/110106>)
- “Using the quadrate analysis method and GIS spatial analysis techniques for analyzing the distribution pattern of GIS Point Data Type (The Mosques in Erbil city)”, 2014. (<https://iasj.net/iasj/article/118590>)
- The possibilities of water harvesting (small dams) in Sharabot highlands Using GIS and remote sensing, 2013.
- “The morphological deterioration of the ancient center of Erbil city Using GIS & Remote Sensing, 2012. (<https://www.iasj.net/iasj/article/68794>)
- “Evaluating the efficiency of fire stations in Erbil city using GIS and spatial analysis techniques”, 2010.
- “Building and managing a geodatabase for KRG ministries”, 2009.
- “The significance of the geographic location of Halabja city and its impact on attacking the city with the chemical weapons”, 2009
- “Using spatial multi criteria evaluation to suggest the best location for the industrial areas in Erbil City using GIS & Remote sensing techniques”, 2009.
- “Urban Land Use Changes in Erbil City from 1985 – 2002 Using Remote Sensing and GIS Techniques”, 2006

- “Geography of Natural Resources” (Translating from English to Arabic Language), 2004
- “The Significant of Remote Sensing Applications in the modern Geographic Studies”, 2004
- “The Pollution of Under Ground Water in Erbil City: Reasons & Treatments”, 2003
- “Census in Iraq and the Importance of the coming Census”, 2003
- “The Geopolitical Importance of Great Kurdistan's Population (Demographic and Ethnographic)”, 1996
- “National Security of Kurd”, 1996
- “The Role of Refreshing Places in the Settlement and Security of the Inhabitants of Kurdistan Region Cities: Erbil – Duhok – and Sulaimaniya”, 1995.

Professional memberships

- Founding member of Kurdistan Geographers Society.
- Member of ITC alumni associate (Enschede, The Netherlands)
- Member of Kurdistan teachers’ union

Professional Social Network Accounts:

- Skype: hunerak
- LinkedIn: [Huner Khayyat](#)
- Facebook: [Huner Abdulla Khayyat](#)
- Google Scholar: [Huner A. Khayyat](#)
- Research Gate: [Huner Khayyat](#)