CURRICULUM VITAE

جامعة الأزهر
Al-Azhar University-Gaza

KHALDON Abu Elhun

Last Update:08/06/2025

PERSONAL DETAILS

Date Of Birth		**Place Of Birth**	Khanyunis-Gaza
Nationality	Palestinian		
Martial Status	Married	**Gender**	Male
Designation	Assistant Professor of Remote Sensing and Geoinformation		
Department	Department of Earth Science		
Faculty	Science		
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Address (Home)			
HURL			

ACADEMIC QUALIFICATIONS

(YEAR ,QUALIFICATION ,INSTITUTION ,TITLE)

2011	Doctoral Degree, PHD,TU Bergakademine Freiberg, Germany (Environmental Remote Sensing and Geoinforamtion)
2002	Master Degree, MSC,ISUFI, Lecce University, Italy (M.Sc., Remote Sensing)
1998	Bachelor Degree, BSC,Al Azhar University-Gaza, Palestine (4 Years B.Sc., Geology/Chemistry (Double major))

CAREER HISTORY

(START DATE - END DATE, EMPLOYMENT ,ORGANIZATION)

2011 , till now	Assistant Professor of Remote Sensing and GIS ,Department of Geology, Al Azhar University-Gaza
2015 ,2022	Director of Institute of Water and Environment ,Al Azhar University-Gaza
2013 ,2014	Head of the Geology Department ,Faculty of Science, Al Azhar University-Gaza
2002 ,2006	Lecturer ,Department of Geology, Al Azhar University-Gaza
1998 ,2001	Research Assistant ,Department of Geology, Al Azhar University-Gaza

ADMINISTRATIVE DUTIES

(START_DATE - END_DATE , ROLE ,LEVEL)

2022 ,	Head of the Employee Syndicate at Al-Azhar University- Gaza, 25, 26-27th session. ,Department
2018 ,2022	Senior Member of the Joint Higher Committee of the PhD Program in Water Technology AUG ,University
2016 ,2018	Head of the Joint Committee for Establishing the Joint PhD in Water Technology ,University
2017 ,2021	Member of MEDRC Scholarship Committee for PhD Candidates in the Gaza Strip ,University
2015 ,2022	Coordinator for the PhD Program in Water Technology ,University
2016 ,2021	Member of MEDRC Scholarship Committee for Master Students at the Gaza Strip ,University
2015 ,2022	Director of the Institute of Water and Environment (IWE) ,University
2015 ,2016	Member in the Employee Syndicate at Al-Azhar University- Gaza, 20th session ,University
2013 ,2014	Member in the Employee Syndicate at Al-Azhar University- Gaza, 18th session. ,University
2013 ,2014	Head of the Geology Department ,Faculty

PROFESSIONAL AFFILIATION/MEMBERSHIP

(YEAR ,ORGANISATION ,ROLE ,LEVEL)

2011 Al Azhar University - Gaza,Assistant Professor of Remote Sensing and Geoinformation,University

AREAS OF EXPERTISE

(AREA)

Environmental Remote Sensing and Geoinformation , Mapping techniques , Change detection and Climate Change , Habitats mapping and classification , Environmental pollution and modeling , Coastal Assessment and Monitoring , Shoreline Changes , Bathymetry and seabed morphology , Images Classification , Geomodelling , Spatial Analyst , GIS and water issues , 3D modeling for surface and subsurface , GIS and Geoinformation , Empirical modeling of satellite data , DEM analysis and accuracy , Groundwater Modeling , Remote sensing methods and techniques for environmental monitoring , Seawater Pollution , Pollution Monitoring , Empirical algorithms for seawater quality prediction ,

SELECTED PUBLICATIONS

- Article in Academic Journal

1. Samir Alnahhal*, Khaldoun Abualhin and Mohammed Barhoum (2023) . Performance Evaluation of Sand Filter and Ultraviolet Disinfection Prototype on Treated Wastewater in Rafah, Gaza Strip,International Journal of Waste Resources,13(5) ,6
2. Hatem AbuEltayef, Khalil Alastal, Khaldoun AbuAlhin (2023) . A new approach to assess non-revenue water and intervention prioritization in water distribution zones by using Geographic Information System technology,DESALINATION AND WATER TREATMENT,313() ,216-226. (ISI Cited Publication)
3. Hatem AbuEltayef, Khaldoun AbuAlhin, Khalil Alasta (2023) . Enabled geographic information system technology toward non-revenue water reduction,Desalination and Water Treatment,() ,. (ISI/SCOUPS Cited Publication)
4. Hatem Taha AbuEltayef, Khaldoun S AbuAlhin, Khalil M Alastal (2023) . Addressing non-revenue water as a global problem and its interlinkages with sustainable development goals,Water Practice & Technology,12(18) ,3175-3202. (ISI/SCOUPS Cited Publication)
5. Khaldoun Abualhin1*, Samar Al-khozondar (2022) . The Environmental Impacts of Wastewater Discharge on the Coastal Water Quality of the Gaza Coastal Zone,Journal of Al Azhar University-Gaza,24(Dec.2022) ,24
6. Khaldoun Abualhin (2022) . Short-term analysis of coastal erosion among human intervention and sea level rise,Journal of Coastal Conservation,26() ,. (ISI/SCOUPS Cited Publication)
7. Khaldoun Abualhin, Irngard Niemeyer (2018) . Deriving Bathymetric Maps of the Shallow Coastal Water of the Gaza Strip Coastal Zone Using Passive Remotely Sensed Imagery,Journal of the Indian Society of Remote Sensing,() ,1-11. (ISI Cited Publication)
8. MA Hamed, SS Abu-Naser, KS Abualhin (2018) . Intelligent Tutoring System Effectiveness for Water Knowledge and Awareness,IJARW,() ,. (ISI Cited Publication)
9. Khaldoun Abualhin (2016) . Mapping of underwater seabed morphology of the Gaza strip coastal zone using remote sensing technique.,Journal of Engineering and Environmental Sciences,20(n2) ,. (ISI Cited Publication)
10. Alhin, K. A., & Niemeyer, I. (2009) . Coastal monitoring using remote sensing and geoinformation systems: Estimation of erosion and accretion rates along Gaza coastline,2009 ,Vol. 4(IEEE) ,pp. IV-29. (ISI Cited Publication)

- Proceedings

1. Abu Alhin, Khaldoun and Niemeye, Irmgard (2009) . A Comparative Study on Pan-SharpeningAlgorithms,29th Symposium of the European Association of Remote Sensing Laboratories, 29th EARSeL Symposium,15-18 June, Chania, Greece,1 - 9. (ISI Cited Publication)
2. Abu Alhin, Khaldoun and Niemeyer, Irmgard (2009) . Calculation of erosion and accretion rates along the Gaza coastal zone using Remote Sensing and Geoinformation Systems,4th EARSeL Workshop Remote Sensing of the Coastal Zone ,18-20 June,Chania,1-9
3. Abu Alhin, Khaldoun and Niemeyer, Irmgard (2009) . Coastal monitoring using remote sensing and geoinformation systems: Estimation of erosion and accretion rates along Gaza coastline,Geoscience and Remote Sensing Symposium,2009 IEEE International,IGARSS 2009 ,12-17 July,Cape Town,IV-29 - IV-32. (ISI Cited Publication)

RESEARCH PROJECTS

(FROM - TO ,PROJECT_TITLE ,ROLE ,SOURCE ,LEVEL)

2018 ,2019	Baseline survey and assessment for heavy metals concentration in groundwater and top soil ,Main Researcher ,MoHE ,National

CONSULTATION PROJECT/CONSULTANCY

(FROM - TO ,PROJECT_TITLE ,ROLE ,ORGANIZATION)

2016 ,2022 National Environmental Projects ,Consultant at Local authorities and research institutions ,

AWARDS AND RECOGNITIONS

(YEAR ,NAME ,INSTITUTION,LEVEL)

2007 ,German Academic Exchange Service (DAAD) scholarship ,TU Bergakademine Freiberg ,International

2001 ,Italian Government scholarship ,ISUFI ,International

SUPERVISION

(DEGREE ,CANDIDATES ,THESIS ,SESSION ,YEAR)

Ongoing

* Master ,Raneen Alqassas ,Assessment of agricultural practices in terms of crop distribution and its convenient to the groundwater quality in the Gaza Strip ,2023 ,Al Azhar University -Gaza
* Master ,Israa Showblaq ,Planning and management of private sector desalination plants based on Multi-Criteria Analysis (MCA) ,2023 ,Al Azhar University -Gaza
* Master ,Doaa Abu Awdah ,Tracking the leaching behavior of fertilizers elements (N, P, and K) from soil to groundwater ,2023 ,Al Azhar University -Gaza
* Master ,Raneem Mdoukh ,Carbon Footprint of Desalination Plants in the Gaza Strip ,2023 ,Al Azhar University - Gaza
* PHD ,Hatem Abualtyef ,Toward New Planning and Management paradigm for Non-Revenue Water ,2022 ,Al Azhar university - Islamic University

Completed

* Master ,Ahmed Mikky ,Evaluation of Antiscalant on RO Membrane performance in Desalination Application ,2022 ,Al Azhar Univeristy
* Master ,Mohammed Barhum ,Development of an Ultraviolet Disinfection Model for Treated Wastewater in Rafah - Gaza Strip ,2021 ,Al Azhar University
* Master ,Soha Abushaban ,Coastal Water Quality Monitoring Using Remote Sensing in Gaza City ,2022 ,Al -Azhar University
* Master ,Samer Alkhuzondar ,Empirical Models for Quantifying Seawater Parameter for Desalination Open Intake System ,2019 ,IWE- Alazhar University -Gaza
* Master ,Mohammed Amin Hammas ,The Effectiveness of Using an Intelligent Tutoring System in Water Knowledge and Awareness ,2018 ,IWE, Al -Azhar University -GAZA

EXPERT/TECHNICAL CONTRIBUTIONS

(ACTIVITY ,ORGANISATION ,ROLE ,FROM ,UNTIL ,LEVEL)

Remote Sensing expert for contamination monitoring , , , , ,International

Geomodeling and Change Detection , , , , ,University

EVALUATION ACTIVITIES

(DESCRIPTION ,EVALUTION ,YEAR)

Book/ Article in Journal Reivewer	* Ocean&Coastal Management Journal, Elsevier ,2022
Examiner	* Oxfam fellowship awards ,2022
Others	* Member of the Scientific Committee of the Palestinian Conference for Awareness and Environmental Education for the Environmental Educatio Center ,2022
Examiner PhD /Msc Thesis	* Member of the Scientific Committee of the 12 Palestinian Conference for Awareness and Environmental Education. ,2021
	* Examining and Interviewer ,2019
	* Examining and Interviewer ,2018
Book/ Article in Journal Reivewer	* Reviewer in Journal of Civil & Environmental Engineering ,2018
Examiner	* MEDRC PhD Selection Committee Evaluator ,2018
	* MEDRC Master Selection Committee Evaluator ,2017
Examiner PhD /Msc Thesis	* Examining and Interviewer ,2017

TEACHING

(LEVEL ,COURSE)

First Degree	* Remote Sensing
	* Marine Geology
	* GIS and Geoinformation
	* Historical Geology
	* Environmental Science
	* Coasts and Shorelines
	* Geomorphology
	* Groundwater Modelling
	* Hydrology
	* General Geology
	* Groundwater Hydrology
Post Graduate	* Environmental Remote Sensing and GIS
	* Remote Sensing and GIS for Water Resources
	* Marine and Coastal Sciences

CONTRIBUTION TO SOCIETY

(START DATE - END DATE ,CONTRIBUTION ,LEVEL)

2020 - 2023	* Papers Evaluation Committee of the Palestinian Conference for Environmental Awareness and Education ,National
2020 - 2022	* Research Jury for the Young Researcher competition at the Culture and Free Thought ,University
2019 -	* Senior Member of the Scientific Committee for Oxfam Research Scholarship ,National
2018 - 2020	* Member of the Scientific Committee of the First Palestine International Water Forum 2018 ,National
2017 - 2018	* Member of international MEDRC fellowships Committee for PhD Candidates in the Gaza Strip ,National
2016 -	* Member of MEDRC Scholarship Committee for Master Students ,National

SKILLS

(SKILL ,PROFICIENCY)

English ,Very Good

German ,Good

CONTINUING EDUCATION

(YEAR ,COURSE NAME ,PLACE ,INSTITUATION ,PERIOD)

2015 ,Teacher Education Program (TEEP) ,Gaza ,Amideast ,8 months

TRAINING COURSES

(YEAR ,COURSE NAME ,PLACE ,INSTITUATION ,PERIOD)

2021 ,A workshop on applying UAVs to map landslides or geological structures ,Online ,Regional Center for Remote Sensing of North Africa States CRTEAN ,29-30 Nov.

2019 , Remote Sensing Image Analysis with ENVI Software ,Online , ,

2019 ,Groundwater Potential Zones GIS - Complete Project ArcGIS ,Online , ,

2018 ,Certificate Remote Sensing for Water Resources ,Online , ,

2010 ,GIS Application in Hydrology ,Freiberg, Germany ,TU Bergakademine Freiberg ,10-14 April, 2010

2010 ,Integrated Data Analysis in Hydrology ,Freiberg, Germany ,TU Bergakademine Freiberg ,04-07 Oct., 2010

2010 ,Geo-modelling ,Freiberg, Germany ,TU Bergakademine Freiberg ,29 March-01 April, 2010

2009 ,Scientific Diving, CMAS* and CMAS** ,Freiberg, Germany ,TU Bergakademine Freiberg ,Oct. 2008-July 2009

2008 ,Time and Project Management ,Freiberg, Germany ,TU Bergakademine Freiberg ,05-06 and 13 June 2008

2007 ,Osteife Volcanology, Fieldwork ,Osteife, Germany ,TU Bergakademine Freiberg ,29 June-01 July, 2007

2007 ,Remote Sensing and GIS ,Freiberg, Germany ,TU Bergakademine Freiberg ,12-24 March

2007 ,Statistical Analysis of Compositional Data ,Freiberg, Germany ,TU Bergakademine Freiberg ,12 June, 2007

Professional Skills

Wide experience in generating digital maps for different purposes: land use, urban planning, and coastal habitat classification.
Environmental assessment and monitoring of coastal water and lakes.
Change detection analysis.
Shoreline change calculation.
Digital image pre-processing and processing.
Generation of digital elevation models (DEM).
Wide experience in utilizing remote sensing software: ENVI 4.5, ERDAS Imagine, PCI Geomatica and ER-Mapper software.
Wide experience in using Geoinformation software, e.g. ArcGIS software and Surfer.
Surface and coastal water modeling using Surface Water Modeling System (SMS).
Groundwater modeling using Visual Modflow Software.
Moderate knowledge of MatLab and IDL.
Knowledge of Geographic Information Science and Remote Sensing techniques and applications
Knowledge of the chemical analysis for water and seawater quality.
Knowledge of the physical and chemical analysis of soil.

Licenses

International Dive License: CMAS* CMAS**
Special Dive Certificate : Group leader Orientation
Drive License: Class B
First aid certification
Knowledge of relevant Workplace Health and Safety requirements

References

Dr. Irmgard Niemeyer Nukleare Safeguards Institut fr Energie- und Klimaforschung (IEK) Forschungszentrum
Jlich GmbH, Germany
Prof. Dr. Helmut Schaeben Mathematische Geologie und Geoinformatik Institut fr Geophysik und Geoinformatik TU BA Freiberg, Germany
Prof. Dr. Luciano Guerriero President, CEO Dept. of Physics-Politecnico di Bari Bari Polytechnic University, Italy