



## SKILLS

Communication		Expert
Distance & Blended Teaching		Expert
Mentoring		Expert
Leadership & Organization & Adaptability		Excellent
Report writing		Advanced
Planning & Scheduling		Expert
Interviewing		Advanced
Critical analysis		Excellent

## PREFERRED JOB

- Teacher in the field of GIS and Natural Resource Management courses.
- Consultant in GIS and Remote Sensing Field

## Personal Details

Education: Doctorate Degree (Ph.D.)  
Date of birth: 04/11/1986  
Nationality: Jordanian

## EXPERIENCE

**14/01/2013 – Now**

**Technical Support for GIS and RS Lab**  
Geography Department/School of Arts

**11/2010 – 12/2013**

### Research Assistant

Research assistant on a research project entitled "impact of residual pesticides on the environment", funded by the Ministry of Environment (MOE) and executed by the University of Jordan (JU)/Water, Environment and Energy Center (WEEC).

**04/2012 – 01/2013**

Research assistant on a research project entitled "Decision Support System for the Management of Zarqa River" funded by the Scientific Research Support Fund (SRSF) Ministry of Higher Education and executed by the University of Jordan (JU), Environmental Monitoring and Research Central Unit/The Royal Scientific Society and German-Jordan University (GJU).

**04/2009 – 12/2012**

Research assistant on a research project entitled "Assessment and monitoring of desertification in Jordan using remote sensing and bio-indicators", funded by the NATO SFP and executed by the University of Jordan (JU), University of Guelph-Canada, Jordan University of Science and Technology (JUST) and Hashemite University.

**10/2009 – 19/9/2011**

Research assistant in Water, Environment Research and Study center on a project entitled "Integrated Water Resources Management", funded by DAAD and executed by the University of Jordan (JU), University of Cologne University of Applied Science.

## Education & Training

Feb, 2013 - Jun, 2018

### Education level

#### Doctorate Degree (Ph.D.)

University of Jordan, Queen Rania Street, Jordan, Amman Graduate studies, Dissertation from the Land, Water and Environment department/School of Agriculture.

#### Master Degree (MSc.)

University of Jordan, Queen Rania Street, Jordan, Amman Graduate studies, Thesis from the Land, Water and Environment department/School of Agriculture.

#### Bachelor Degree (BSc.)

University of Jordan, Queen Rania Street, Jordan, Amman Under Graduate studies, Thesis from the Land, Water and Environment department/School of Agriculture.

#### Scientific high school diploma

Al-Orouba high school, Jordan, Amman Scientific high school, high school diploma.

### Training

#### GIS training course

I have given a training course in (Fundamental of GIS) conducted in Center of Consultation and Training, Amman-Jordan.

#### GPS training course

I have given a training course in (GPS) conducted in Center of Consultation and Training, Amman-Jordan.

#### GIS training course

Attended a training course in (ArcGIS On Line) conducted by Greater Amman Municipality-Cultural center, Amman-Jordan.

July 27, 2017

July 24, 2017

December, 2015

June 14, 2015

October, 2012

March, 2012

August, 2011

July 25, 2011

### Training

#### GIS training course

Attended a training course in (ArcGIS2: Essential Workflows) conducted by InfoGraph, Amman-Jordan.

#### GIS training course

Attended a training course in (ArcGIS1: Introduction to GIS) conducted by InfoGraph, Amman-Jordan.

#### GIS training course

I had given a training course in (Fundamental of GIS) conducted in Professional Associations Complex, Amman-Jordan.

#### GIS training course

I had given a two training courses in GIS (**GIS Basic**, **GIS Advance**) which held both training courses for a total of (15) Hours from 1 June to 14 June 2015, conducted in School of Arts-Geography department, Amman-Jordan.

#### GIS training course

Attended a training course in (Modeling of soil erosion by using DUST\_EM) conducted in School of Agriculture-Land, Water and Environment department, Amman-Jordan.

#### GIS training course

I had given a training course in GIS (**GIS Basic**), conducted in School of Arts-Geography department, Amman-Jordan.

#### GIS training course

I had given a training course in GIS (**GIS Basic**), conducted in School of Arts-Geography department, Amman-Jordan.

#### GIS training course

I had given a training course in GIS (**GIS Basic**), conducted in School of Arts-Geography department, Amman-Jordan.

January, 2019

July 23, 2020

July 14, 2020

January, 2019

## Scientific Participate

**December 08, 2017**

### International Conference

Duisburg, Germany

**Attended the International Conference** in (The German-Arab Knowledge Transfer Colloquium on Water-Energy-Food Security Nexus in the MENA Region) which held in Duisburg, Germany from November 27 to December 08, 2017.

**November 16, 2012**

### International Conference

Istanbul, Turkey

**Attended the International Conference** in (Sediment Transport Modeling in Hydrological Watersheds and Rivers) which held in Istanbul, Turkey from November 14 to 16, 2012.

**September 17, 2011**

### Summer School Program

Beirut, Lebanon

**Attended the Summer School Program** in (Promoting Conservation Agricultural in the Arab Region) which held in Beirut, Lebanon from September 05 to 17, 2011.

**October 04, 2010**

### Summer School Program

Triesdorf, Germany

**Attended the Summer School Program** in (Promoting Conservation Agricultural in the Arab Region) which held in Beirut, Lebanon from September 20 to October 04, 2010.

## Teaching

### Teacher

**September-June, 2019/2020**

### Remote Sensing and GIS courses for Bachelor Students

University of Jordan, Queen Rania Street, Jordan, Amman

**I have given a Bachelor courses** in Fundamental of Remote Sensing and Geographic Information System (GIS), which held during the **First/Second semester** 2019/2020, conducted in School of Arts-Geography department, Amman-Jordan.

**September-June, 2020/2021**

### GIS course for Bachelor Students

University of Jordan, Queen Rania Street, Jordan, Amman

**I have given a Bachelor courses** in Fundamental of Geographic Information System (GIS), which held during the **First/Second semester** 2020/2021, conducted in School of Arts-Geography department, Amman-Jordan.

## Personal Skills

Mother tongue(s)	Arabic				
Other language(s)	UNDERSTANDING			G	WRITING
	Listening	Reading	Spoken Interactio	Spoken Production	
English	B2	C1	B2	B1	B1
Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages					

**Communication skills**

- Good communication skills gained through my experience as technical support (software and hardware).
- Excellent contact skills with undergraduate student gained through my experience as instructor and lab supervisor for GIS and RS labs.

**Organizational/managerial skills**

▪ I had worked as a Research Assistant (RA) and trainer in many GIS fields and environmental related project, in these projects, I took the opportunity to familiarize myself with many experience related to field work, analysis of environmental data and I have been oriented toward the concept environmental management at different watershed levels; the approach can be only achieved by Remote Sensing (RS) and Geographic Information System (GIS) and I also visited the University of Applied Sciences in Weihenstephan- Germany and the American University of Beirut (AUB) through a project sponsored by the German Academic Exchange Service (DAAD) and consists of an intensive 14-day course; both visits were to participate in the Workshop and courses in International Summer School Programme Entitled "Promoting Conservation Agriculture in the Arab Region. After the M.Sc. Level I provided with more specific in-depth knowledge in producing water erosion maps for the study area. And currently I worked in many projects, the first one was funded by the Ministry of Environment (MOE) and executed by the University of Jordan (JU)/Water, Environment and Energy Center (WEEC), that reviewed the Impact of residual pesticides on the environment. The second one was funded by DAAD and executed by the University of Jordan (JU), University of Cologne University of Applied Sciences that reviewed the Integrated Water Resources Management (IWRM). Through these projects I gained a vast experience in coordinate and managing project, and I had also gained an experience in writing reports to be delivered to the decision maker as well as supporting my experience in environmental data analysis. Also during my work as RA, I prepared geodatabase for many study areas, including land use/land cover map, after conducting many field trips to make a full survey for the study area. And also, I had work as a consultant to different Non-Governmental Organizations (NGOs) to solve many problem that related with GIS and RS fields. Now, I am still working as a technical support for GIS and RS laboratories in the University of Jordan.

**Computer skills** ▪ Excellent user of Microsoft Application, software and hardware side.

**Other skills** ▪ Working on Specialist Devices.

- 1- Leveling and GPS Devices.
  - Using leveling device to calculate the area of any open region, and determine the slope of it
- 2- Cropscan Radiometer Device.
  - Using this device to collect spectral reflectance measurements for different features.
- 3- Third Dimension (3D) camera to generate 360 degree mosaicked photos.

**Driving license** ▪ License type: 31 (private passenger vehicles and rental vehicle and private vehicle), total weight (5000) kg with manual speed shift; license No.: 11939503

## Publications, Membership & References

### Publication

- 1- Farhan, I.A. and Al-Bakri, F.T., 2012. Use of GIS and remote sensing to assess soil erosion in an arid to semiarid basin in Jordan. In *Proceedings of the International Conference on Sediment Transport: Modeling in Hydrological Watersheds and Rivers* (Vol. 5, pp. 145-152).
- 2- Farhan, Y., Zregat, D. and Farhan, I., 2013. Spatial estimation of soil erosion risk using RUSLE approach, RS, and GIS techniques: a case study of Kufranja watershed, Northern Jordan. *Journal of Water Resource and Protection*, 5(12), p.1247.
- 3- Al-Omari, A., Farhan, I., Kandakji, T. and Jibril, F.A., 2017. Pollution sources to Zarqa River: their impact on the river water quality as a source of irrigation water. In *Proceedings of the workshop, water perspectives in emerging countries: water use in MENA countries* (pp. 03-08).
- 4- Al-Omari, A., Al-Bakri, J., Hindiyeh, M., Al-Houri, Z., Farhan, I. and Jibril, F., 2018. Integrated Hydrologic and Quality Model for Zarqa River Basin in Jordan. *Fresenius Environmental Bulletin*, 27(7), pp.4637-4647.
- 5- Al-Omari, A., Farhan, I. and Kandakji, T., 2019. Zarqa River pollution: impact on its quality. *Environmental monitoring and assessment*, 191(3), pp.1-21.
- 6- Khawaldah, H.A., Farhan, I. and Alzboun, N.M., 2020. Simulation and prediction of land use and land cover change using GIS, remote sensing and CA-Markov model. *Global Journal of Environmental Science and Management*, 6(2), pp.215-232.
- 7- Farhan, I.A. and Al-Bakri, J., 2019. Detection of a Real Time Remote Sensing Indices and Soil Moisture for Drought Monitoring and Assessment in Jordan. *Open Journal of Geology*, 9(13), pp.1048-1068.
- 8- Aymen, A.T., Al-husban, Y. and Farhan, I., 2020. Land suitability evaluation for agricultural use using GIS and remote sensing techniques: The case study of Ma'an Governorate, Jordan. *The Egyptian Journal of Remote Sensing and Space Science*.
- 9- Al-Bakri, J., Farhan, I., Al-Qinna, M. *et al.*, 2021. Assessment of Climate Changes and Their Impact on Barley Yield in Mediterranean Environment Using NEX-GDDP Downscaled GCMs and DSSAT. *Earth Syst Environ* (2021).  
<https://doi.org/10.1007/s41748-021-00238-1>

### Membership

Jordan Agricultural Engineers Association

## References

1-Prof. Jawad Al-Bakri is an professor in University of Jordan and a researcher in "Remote Sensing and GIS applications in land resources management, EIA and environment monitoring, land use/cover studies and integrated water management".

Jawad Al-Bakri, PhD

Land Resources Management-GIS&RS

Dept. Land, Water and Env./ School of Agriculture, University of Jordan Amman, Jordan

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Tel: +962-6-5355000 Ext 22449/Mobile: +962-79-6169966

2-Prof. Ayman Suleiman is an professor in University of Jordan and a researcher in "Agro climatology, Crop and Water Balance Modeling".

Ayman Suleiman, PhD

Soil Physics

Dept. Land, Water and Env./ School of Agriculture, University of Jordan Amman, Jordan

E-mail: [ayman.suleiman@ju.edu.jo](mailto:ayman.suleiman@ju.edu.jo)

Tel: +962-6-5355000 Ext 22377/Mobile: +962-79-6550312

3-Prof. Abbas Al- Omari is an professor in University of Jordan and a researcher in "Water Resources and Environmental Engineering".

Abbas Al- Omari, PhD

Civil Engineering

Water, Energy and Environment Center / School of Agriculture, University of Jordan Amman, Jordan

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Tel: +962-6-5355000 Ext 23903/Mobile: +962-77-7358664

4-Prof. Mustafa Al Kuisi is an professor in University of Jordan and a researcher in "Water Resources Managements and Climate change".

Mustafa Al Kuisi, PhD

Hydrogeochemistry

Dept. Geology/ School of Science, University of Jordan Amman, Jordan

E-mail: [mkuisi@ju.edu.jo](mailto:mkuisi@ju.edu.jo)

Tel: +962-6-5355000 Ext 22254/Mobile: +962-79-6906169

5-Prof. Hussam Al-Bilbisi is an Professor in University of Jordan and a researcher in "GIS and Microwave and Optical Remote Sensing Data".

Hussam Al-Bilbisi, PhD

Remote Sensing and GIS

Dept. Geography and Geology/School of Arts and science, University of Jordan Amman, Jordan

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