



# MAHER MILAD ABURAS

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Address § BENGHAZI-LIBYA, National ID : 119770087217

## WORK EXPERIENCE

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Utilities Ministry Libya

2003 — 2008

*Environmental Technician*

Environmental Office

High Institute for Engineering Professions,  
Benghazi, Libya

2008 — 2018

*Lecturer*

Teaching the following subjects:

1. Cartography 1 and 2.
2. Geomorphology.
3. Urban planning.
4. Research methodology.

High Institute for Training Trainers,  
Benghazi, Libya

2009 — 2011

*Lecturer*

1. Teaching subjects at Safety and Health Department.
2. Supervising final year projects at Safety and Health Department.

High Institute for construction Professions,  
Benghazi, Libya

2009 — 2012

*Assistant lecturer*

Teaching Following Subjects:

1. Geomorphology
2. Cartography.

High Institute for Engineering Professions,  
Benghazi, Libya

2011 — 2012

*Director of the Office of Scientific Affairs*

University Science Malaysia

2018 — 2019

*Lecturer and Researcher*

School of Civil Engineering, Environmental Engineering field.

Responsibilities:

Publishing high quality reaserches in high quality journals.

High Institute for Engineering Professions,  
Benghazi, Libya

2019 — 2019

*Director of the Field Training Office*

Conducting all programs related to field training for the final year students at the Department of Engineering

High Institute for Engineering Professions,  
Benghazi, Libya

2020

*Director of Resources Development Office*

HR

## QUALIFICATION

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1. Bachelor's degree of Geography, Department of Geography, Benghazi University, 2000.
2. Master degree of Environment, Libyan Academy, Department of Environmental Science. 2006.
3. PhD degree of Environmental Studies, Department of Environmental Management, University Putra Malaysia. 2018.

## AREA OF INTEREST

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Area of Interest :

1. Land-use and cover change .( Excellent)
2. Urban Planning. ( Excellent).
3. Landslide Hazard . ( Very good).
4. Soil erosion ( Excellent).
5. Water Quality ( Excellent).
6. Agriculture . ( Excellent).
7. Geodatabase ( Very good).
8. Climate change . ( Excellent).
9. Landfill site selection, and other applications . ( Excellent).
10. Solid Wate Management ( Very good).
11. Landscape Analysis. (Excellent).

## EDUCATION

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English

2012 — 2013

*U.S ELS Language Centre*

English is the second language.

Scientific Research course.

2013 — 2013

*FILISIPY ACADEMY*

Advanced GIS Course

2016

*UM University Malaysia*

TOT 2016  
*UM University, Malaysia*  
Training of trainers course.

Advanced GIS and RS course. 2017  
*UPM University Malaysia*  
1. Drone DJI.  
2. Global Mapper.  
3. Remote sensing.  
4. Others.

SWAT Workshop 2017  
*UKM University Malaysia*  
Advanced GIS Course.

Summer School of Blue Growth 2018  
*Euro-Mediterranean University – EMUNI and the National Institute of Oceanography and Applied Geophys*  
(Italy and Slovenia)

ISPRS SC Summer School- Big GeoSensing 2018  
Data Ecosystem: Theory, Processing & Application  
*Universiti Teknologi Malaysia (UTM)*  
GIS BIG DATA

## PUBLICATIONS

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1. Aburas, Maher Milad, et al. "The simulation and prediction of spatio-temporal urban growth trends using cellular automata models: A review." *International Journal of Applied Earth Observation and Geoinformation* 52 (2016): 380-389.

2. Aburas, Maher Milad, et al. "Improving the capability of an integrated CA-Markov model to simulate spatio-temporal urban growth trends using an Analytical Hierarchy Process and Frequency Ratio." *International Journal of Applied Earth Observation and Geoinformation* 59 (2017): 65-78.

3. Aburas, Maher Milad, et al. "Measuring land cover change in Seremban, Malaysia using NDVI index." *Procedia Environmental Sciences* 30 (2015): 238-243.  
APA

4. Aburas, Maher Milad, et al. "A Review of Land Suitability Analysis for Urban Growth by using the GIS-Based Analytic Hierarchy Process." *Asian Journal of Applied Sciences* (ISSN: 2321-0893) 3.06 (2015).

5. Aburas, Maher M., et al. "Land Suitability Analysis of Urban Growth in Seremban Malaysia, Using GIS Based Analytical Hierarchy Process." *Procedia Engineering* 198 (2017): 1128-1136.

6. Aburas, Maher Milad, et al. "Measuring and Mapping Urban Growth Patterns Using Remote Sensing and GIS

Techniques." *Pertanika Journal of Scholarly Research Reviews* 3.1 (2017).

7. Aburas, Maher M., et al. "Landscape analysis of urban growth patterns in Seremban, Malaysia, using spatio-temporal data." *IOP Conference Series: Earth and Environmental Science*. Vol. 37. No. 1. IOP Publishing, 2016.
8. Omar, Hamdan, et al. "Special Issue for the 8th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2016), 13-14 April 2016, Berjaya Times Square Hotel, Kuala Lumpur, Malaysia." (2016).
9. Aburas, Maher, et al. "Evaluating Urban Growth Phenomena in Seremban, Malaysia, Using Land-Use Change-Detection Technique."
10. Evaluating Urban Growth Patterns in Benghazi, Libya, Using Remote Sensing and GIS Techniques (In Arabic), Geotic Libya 2015.
11. Land Suitability Analysis for Landfill Site Selection in Seremban, Malaysia Using GIS Based AHP, ICDI 2016 Handbook(2016).
12. Aburas, Maher Milad, et al. "Monitoring and Assessment of Urban Growth Patterns using Spatio-temporal Built-up Area Analysis.." *Environmental Monitoring and Assessment* (2018).
13. Aburas, Maher M., et al. "Simulating and monitoring future land-use trends using CA-Markov and LCM models." *IOP Conference Series: Earth and Environmental Science*. Vol. 169. No. 1. IOP Publishing, 2018.
14. Almdhun, Haitem M., et al. "Measuring and predicting urban growth patterns and trends in Putrajaya, Malaysia." *IOP Conference Series: Earth and Environmental Science*. Vol. 169. No. 1. IOP Publishing, 2018.
15. Spatio-temporal simulation and prediction of land-use change using conventional and machine learning models: A review, *Environmental Monitoring and Assessment Journal*, 2019.
- 16., M. Y., Copt, N. K., Ngien, S. K., Bob, M. M., & Aburas, M. M. (2019). Characterization of Capillary Pressure–Saturation Relationships for Double-Porosity Medium Using Light Transmission Visualization Technique. *Transport in Porous Media*, 1-16.
17. Alazaiza, Motasem YD, et al. "LNAPL saturation distribution under the influence of water table fluctuations using simplified image analysis method." *Bulletin of Engineering Geology and the Environment* (2019): 1-12.
18. Ajeeb, R., Aburas, M. M., Baba, F., Ali, A., & Alazaiza, M. Y. (2020, July). The Prediction of Urban Growth Trends and Patterns using Spatio-temporal CA-MC Model in Seremban Basin. In *IOP Conference Series: Earth and Environmental Science* (Vol. 540, No. 1, p. 012028). IOP Publishing.
19. Aburas, M. M., Ho, Y. M., Pradhan, B., Salleh, A. H., & Alazaiza, M. Y. (2021). Spatio-temporal simulation of future urban growth trends using an integrated CA-Markov model. *Arabian Journal of Geosciences*, 14(2), 1-12.

## REVIEWER AT

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1. Environmental Monitoring and Assessment.
2. Journal of Environmental Planning and Management.
3. Saudi Journal of Biological Sciences.
4. Applied Engineering in Agriculture.

## AWARDS

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1. The best student paper award in 8th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2016).
2. The second place in the 3 Minute Thesis Competition (3TM) in the faculty level at UPM.
3. Certificate of Appreciation from Embassy of Libya in Malaysia for my achievements during PhD journey at UPM, Malaysia.
4. UPM Grant under number 9448100.
5. Nominated for Gold Award of Doctor of Philosophy 2017/2018 in Universiti Putra Malaysia.
6. Certificate of Achievement for successfully graduated on time 2018, UPM University, Malaysia.

## ATTENDED CONFERENCES

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- 1 7th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2014). Malaysia
2. International Conference on Environmental Forensics (iENFORCE2015). Malaysia
3. International Postgraduate Conference on Agriculture, Environmental and Waste Management (IPCAEWM 2015). Malaysia
4. 8th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2016). Malaysia
5. Urban Transitions Global Summit 2016. China.
6. International Geospatial Conference 2015. Tripoli, Libya.
7. International Geospatial Conference 2016. Tripoli, Libya.
8. International Conference on Disruptive Innovation (ICDI 2016), Kuala Lumpur Malaysia.
9. 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2018). Malaysia
10. 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2020). Malaysia.
11. International GIS day Libya 2020.
12. International Conference on Climate Change Tunisia 2020.
13. State of the Map - Libya 2020 Conference

## SOFTWARE SKILLS

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Word: Excellent  
Excel: Good  
PowerPoint: Very Good  
Photoshop: Good  
ArcGIS: Excellent  
IDRISI: Very Good  
ENVI: Very Good  
Google Earth: Excellent  
Erdas: Good.  
Arc Swat: Good  
Fragstat: Excellent  
HEC-GeoHMS: Good  
Python: Good  
SPSS: Very Good  
Drone: Very Good.

## LANGUAGES

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Arabic & English

## SCIENTIFIC MEMBERSHIP

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1. Associate Professional Member at Institution of Geo-spatial and Remote Sensing Malaysia (IGRSM).
2. Individual Member of the International Society for Photogrammetry and Remote Sensing (ISPRS).

## CONFERENCES COMMITTEES

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1. Preparation committee of 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2018). Malaysia.
2. Preparation and scientific committee of Geo Tunis conference 2018, Hammamet, Tunis.
3. المؤتمر الدولي الرابع للتقنيات الجيومكانية- ليبيا جيوتيك 4، 2020
4. المؤتمر العلمي للمبادرات الشبابية في التنمية وإعمار المدن 2020

## SPEAKER

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1. Introduction to Geo-spatial Technology (2017) Libyan Academy Club, Kajang, Malaysia.
2. Basic skills for generating and managing spatial database (2017) Kuala Lumpur Malaysia.
3. Basic skills for generating and managing spatial database, mapping, and modeling (2018) Ampang, Kuala Lumpur, Malaysia.
4. Publishing Research Papers in High Quality Journals (2018) Libyan Academy Club, Kajang, Malaysia.
5. Evaluating and Simulating Urban Planning Process Using Geospatial Models, GeoTunis Conference 2018 Tunisia .
6. Presentation Skills (2019) The High Institution of Engineering Professions AL-Majori Benghazi, Libya.
7. Applications of spatial technology in defense, security, and planning aspects (2019) Libya National Army.

## LINKS

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Facebook: [www.facebook.com/maher.buras](https://www.facebook.com/maher.buras)

Linkedin: [www.linkedin.com/in/maher-aburas-05a52393/](https://www.linkedin.com/in/maher-aburas-05a52393/)

Researchgate: [www.researchgate.net/profile/Maher\\_Aburas](https://www.researchgate.net/profile/Maher_Aburas)

Youtube Channel: [www.youtube.com/channel/UCUbgdtOQY8Iv0P5GWlMPo9Q](https://www.youtube.com/channel/UCUbgdtOQY8Iv0P5GWlMPo9Q)

Google Scholar: <https://scholar.google.com/citations?user=GTIei8sAAAAJ&hl=en>

QABAS : <https://qabas.ly/>

## PERSONAL INFORMATION

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Date of Birth: 2/7/1977.

City of Birth: Benghazi, Libya.

Nationality: Libya.

Current place of residence: Kajang, Malaysia.

Hobbies: Swimming, football, social activities.

