

PERSONAL INFORMATION



Yassmin Mahmoud

1, xxxxxxxxx St, xxxxxxx 12411, Egypt.
Via di xxxxxxxx, xxxxx, 00133 Roma, Italy.

+20112xxxxxx , +3934xxxxxx

Essa_y.h@yahoo.com,
Yassmin.hesham@artov.ismar.cnr.it

Sex Female | Date of birth xxxxxxx | Nationality Egyptian

WORK EXPERIENCE

- | | |
|----------------|--|
| 2018 – present | Post-doc researcher
Istituto di scienze marine (<i>ISMAR-CNR</i>), Roma,
Italy Assistant Researcher
Central Laboratory for Agricultural Climate - Agricultural Research Centre,
Egypt Research Assistant |
| 2014 – present | Central Laboratory for Agricultural Climate - Agricultural Research Centre,
Egypt. Agro-meteorologist and Remote sensing analyst |
| 2012 – 2014 | Central Laboratory for Agricultural Climate - Agricultural Research Centre,
Egypt. Agro-meteorologist and Remote sensing analyst |
| 2010 – 2012 | Central Laboratory for Agricultural Climate - Agricultural Research Centre, Egypt |

EDUCATION

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| 2014 – 2018 | Ph.D. in Meteorology,
Thesis Title: „Climate change outlook and its impact on drought in North Africa“ Faculty of Science, Cairo University, Egypt. |
| 2012 - 2014 | M.SC in Meteorology,
Thesis Title: „Assessment and monitoring Drought over Egypt“ Faculty of Science, Cairo University, Egypt. |
| 2011 – 2012 | Diploma in Meteorology
Faculty of Science, Cairo University, Egypt. |
| 2004 – 2009 | B. Sc. in Math and Computer Science
Faculty of Science, Cairo University, Egypt. |

Training and Fellowships

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| 28 Apr. – 11 May. 2019 | Seventh Workshop on Collaborative Scientific Software Development
International Centre for Theoretical Physics (ICTP), Trieste, Italy. |
| 4 – 5 Feb, 2019 | International conference of Climate service for West Africa
Consiglio Nazionale delle Ricerche (CNR) [National Research Council], Roma, Italy. |
| Feb. – Aug. 2017 | International Fellowship in “Environment Sciences” , as part in Sciences for DIPLOMAzia2 Program,
Institute of Atmospheric Sciences and Climate (CNR-ISAC), Italy. |

12 – 23 Jun. 2017	Fourth Workshop on Water Resources in Developing Countries: Hydroclimate Modeling and Analysis Tools International Centre for Theoretical Physics (ICTP), Trieste, Italy.
3-10 Oct. 2016	Training course on „Climate Change and Sustainability“ New Delhi, India.
18 Apr. 2016	International workshop on “Modelling the Water-Food-Energy (WEF) Nexus in the Arab World – The Case of Egypt”, Cairo, Egypt
3 - 4 Dec. 2012	International Workshop on "Early Warning System for Drought Preparedness and Drought Management" Beirut, Lebanon.
2-13 Sep. 2012	Training course entitled “Regional Climate Model RegCM4.3 and its use in agriculture, desertification, irrigation, and air pollution”. Egyptian Meteorological Authority, Egypt.
18-21 Jun. 2012.	International Workshop on "Develop a framework to reduce the risk of drought on urban areas in Syria", Damascus, Syria.
27 Nov. - 1 Dec. 2011	2nd International Training course entitled “Drought Monitoring Using Remote Sensing Technique” organized by the Arab Centre - ACSAD in cooperation with the German Agency for Technical Cooperation Cairo, Egypt.
24-28 Dec. 2010.	Training course entitled “Processing and visualization of ETA Model outputs”, Cairo, Egypt.
16-21 Oct. 2010.	1st International Training course entitled “Drought Monitoring Using Remote Sensing Technique” organized by the Arab Centre - ACSAD in cooperation with the German Agency for Technical Cooperation. Cairo, Egypt.
10 – 14 Oct. 2010.	Training course entitled “Climate change and agriculture” within the training program included the activities of the Food and Agriculture Organization of the project "Risk Management of Climate Change” Cairo, Egypt.

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Italian	A2	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

- Fields of Interest** Meteorology, Agro-meteorology, Climate Models, Climate Change, Extreme events, Drought monitoring, Remote sensing applications, Water resources, Weather and Climate Prediction, and Impact of climate change on different sectors.
- Job-related skills** More than nine years experience in weather and climate models and analyzing the output using the recent and advanced tools, Environmental Satellite data, Drought monitoring, early warning system for reducing a risk on agricultural system, GIS, and Remote sensing analysis.
- Computer Skills** Linux, Python, R, Visual Basic, Fortran, and analysis tools (GRADS, CDO – NCO – NCL,...), and GIS,

ADDITIONAL INFORMATION

Research Projects

- Member in the European project of „AMBITO DEI PROGETTI DI RICERCA “AXA” E SOFTWARE DEVELOPMENT OF THE CLIMATE DATA STORE (CDS) TOLBOX”
- Member in the international project „Optimizing Water Management for Cultivated Lands through Remote Sensing Analyses and Climate Change Scenarios (OptiMED-Water)”
- Member in the project of „Regional Climate Change database for Agriculture sector in Egypt”
- Member in the German-Egyptian project of „Enhancing Water Availability in Egypt through analysis and modification of local surface-atmosphere fluxes (EWA Egypt)”

Publications

- M. M. Abdel-Wahab., **Essa Y.H.**, A.A. Khalil, Elfadli K., Giulia Panegrossi. (2018). Water Loss in Egypt Based on the Lake Nasser Evaporation and Agricultural Evapotranspiration. *EnvironmentAsia*, 11(2):192-204.
- Khalil A.A.; A. A. A. Mohamed; and **Y.H. Essa** (2017). Using Remote Sensing Techniques and Historical Records to Estimate Agricultural Area. *Scientific Modelling and Research*, 2(1): 37-47.
- Khalil A.A., **Y.H. Essa**, and H. M. El sharkawi. (2016). Assessment of future winter chill in Egypt. *International Journal of Advanced Research* (2016), 4(12), 2667-2676.
- Khalil A.A., **Y.H. Essa**, Hassan H.A, and Abolmaaty S.M. (2016). Plant diseases for major crops in Egypt under future climate conditions. *International Journals of Current Agricultural Sciences*. Vol. 6, Issue, 12, pp. 149-154.
- Khalil A.A., **Y.H. Essa**, F.A. Hashem and K.M. Refaie. (2016). Water consumption variability for major crops in Egypt under climate change conditions. *International Journal of Advanced Research*, 4(9), 1157 – 1168.
- **Essa Y.H.**, A.A. Khalil, and M. M. Abdel-Wahab. (2016). Assessment of Agricultural Drought under Climate Change. *Research Journal Of Fisheries And Hydrobiology* 11(6), June, Pages: 1-11.
- Khalil A.A., **Y.H. Essa**, and M.M. Abdel-Wahab, 2015. Evapotranspiration mapping over Egypt using MODIS / Terra satellite data. *International Journal of Advanced Research* (2015), Volume 3, Issue 12, 512 – 522.
- Khalil A.A. and **Y.H. Essa**, (2015). Atlas for evapotranspiration over Egypt. Central laboratory for agricultural climate (CLAC) – Agricultural research center (ARC) – Egypt, ISBN: 978-977-302-446-8.

- Khalil, A.A.; **Y.H. Essa**, and M. El-Sayed,(2015). Atlas for Drought Monitoring Over Egypt. Central laboratory for agricultural climate (CLAC) – Agricultural research center (ARC) – Egypt, ISBN: 978-977-302-445-1.
- Khalil .A.A, **Y.H. Essa**, and M. K. Hassanein,(2014). Monitoring Agricultural Land Degradation in Egypt Using MODIS NDVI Satellite Images. Nature and Science 2014; 12(8); 15-21.
- Hassanein M. K.; A.A. Khalil, and **Y.H. Essa** (2013). Assessment of Drought Impact in Africa Using Standard Precipitation Evapotranspiration Index. Nature and Science 2013; 11(12); 75-81.
- AA Khalil, MM Abdel-Wahab, MK Hassanein, B Ouldbdey, B Katlan, and **Y.H. Essa**. (2013). Drought Monitoring over Egypt by using MODIS Land Surface Temperature and Normalized Difference Vegetation Index. Nature and Science 2013; 11(11); 116-122.
- MK Hassanein, SM Abolmaaty, AA Khalil, MO Taqi, **Y.H. Essa**, and HH Shawki. (2013). Geographical Distribution and Developmental Pattern of Buffalo in Egypt. World Rural Observations 2013; 5(4).