Curriculum Vitae

Name: Mohamed El Adham Mahdy Fadl

Work: **Researcher,** Division of Scientific Training and Continuous Studies, National Authority for Remote Sensing and Space Sciences (NARSS).

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Personal Data:

- **Date/Place of Birth:** September 9, 1984 - El Balabish Bahry, Dar El Salam, Sohaj, ARE (Arab Republic of Egypt).
- **Sex:** Male.
- **Sociability State:** Married.
- **Military Service Status:** Exempted.
- **Nationality:** Egyptian.

Education:

1. **B. Sc. Degree in Agriculture, 2006.** Agriculture College, Soil and Water Department, Bedology. Al Azhar University, Assiut, Egypt. General Estimation, Very Good (81.8 %).

2. **M.Sc. Degree in Agriculture, 2010.** Benha University, Qalubia, Egypt. Thesis "Pedological Changes of the Nile River Course and Its Islands within Aswan Giza Sector".
3. **PhD. Degree in Agriculture, 2015.** Menofyia University, Menofiya, Egypt. Thesis title "Land and Water Resources Potentiality of East Oweinat Area, Egypt Using Remote Sensing and GIS Techniques".

Scholarships:

1. Scholarship grant for M.Sc. Degree in Agriculture from Academy of Scientific Research and Technology to National Authority for Remote Sensing and Space Sciences (NARSS), Agriculture Applications and Soil, 2007-2010.

Membership of scientific societies:

1. Member of Egyptian Soil Science Society (ESSS).
2. Member of International Water Resources Association (IWRA).

Research Projects:

1. Development of an Integrated System for Evaluation of the Cultivated (Arable) Land of Egypt, NARSS, 2007-2010.
2. Land and Water Resources of the Nile Basin and its Down Stream Using Remote Sensing and GIS Techniques, NARSS 2010 to 2011.
3. Sinai Information System for Land management and Environment Monitoring (North Sinai), NARSS, 2011 to 2012.
4. Sinai Information System for Land management and Environment Monitoring (South Sinai), NARSS, 2012 to 2013.
5. Studying Land and water resources of East Oweinat Egypt Using Multi and hyperspectral imageries, NARSS, 2013 to

2014.

6. Adverse Impacts of Nile Water Deficiency on the sustainable land management of Nile Delta and Valley (Egypt) Using remote sensing and other techniques, NARSS, 2014 to 2016.
7. Impact of Ethiopian Renaissance dam on soil and water in Egypt, NARSS, 2016 to 2017.
8. Study of water deficiency on soil and water resources in northern Nile Delta, NARSS, 2017 to 2018.
9. Sustainability of land and water resources in western north coast, Egypt, NARSS, 2018 to 2019.
10. Environmental hazards detection and their effects on El Fayoum depression, NARSS, 2019 to 2020.
11. Study of Sustainable land resources for the area extended from Ras- Ghareb - Gaba Elziet in the eastern desert using RS and GIS Techniques, NARSS, 2020 to 2021.
12. Situation legalization of the land-locked farmers in Egypt - Governmental project in cooperation with ministry of agriculture, 2011-2017.
13. Land Reclamation of Lahoon area, Beni Suef governorate – Governmental project in cooperation with Ministry of Defense - General Service of the Armed Forces, 2016.
14. Land Reclamation of Dhaba axis - Governmental project in cooperation with the Ministry of Defense - General Service of the Armed Forces, 2017.
15. Digital geographic database establishment for the potential and determinants of sustainable development in the New Valley Governorate, 2017-2018.

Publications:

1. A.H.El-Nahry, O.H.El-Hosseiny, H.M.Salim and **Mohamed E.**

Fadl, (2010). **"Pedological Changes of the Nile River Course and Its Islands within Aswan Giza Sector".** Annals of Agric.sci. Moshtohor, 48 (1): 13-23.

2. A.H. El-Nahry, M.S. Amira, F.E. Abu-Agwa, **Mohamed E. Fadl,** (2015). **""Identification of geomorphic and pedological characteristics at East Oweinat area (Egypt) using remote sensing and GIS techniques".** Minufiya J. Agric. Res. 40 (4): 1055-1064.
3. Ahmed S. Abuzaid and **Mohamed E. Fadl,** (2016). **"Land Evaluation of Eastern Suez Canal, Egypt Using Remote Sensing and GIS".** Egypt. J. Soil Sci., 56(3): 537-548. https://doi.org/10.21608/EJSS.2017.1068
4. **Mohamed E. Fadl** and Ahmed S. Abuzaid (2017). **"Assessment of Land Suitability and Water Requirements for Different Crops in Dakhla Oasis, Western Desert, Egypt".** International Journal of Plant and Soil Science, 16(6): 1-16. https://doi.org/10.9734/IJPSS/2017/33835
5. Ahmed S. Abuzaid and **Mohamed E. Fadl,** (2018). **"Mapping potential risks of long-term wastewater irrigation in alluvial soils, Egypt".** Arab J Geosci., 11(15): 433. https://doi.org/10.1007/s12517-018-3780-3
6. Ahmed S. Abuzaid, Abdellatif D. Abdellatif and **Mohamed E. Fadl,** (2020). **Modeling soil quality in Dakahlia Governorate, Egypt using GIS techniques**. The Egyptian Journal of Remote Sensing and Space Science, 24(2): 255-264, https://doi.org/10.1016/j.ejrs.2020.01.003
7. **Mohamed E. Fadl** and Yasser A. Sayed, (2020). **"Land Resources Evaluation for Sustainable Agriculture in El-Qusiya Area, Assiut, Egypt".** Egypt. J. Soil Sci., 60(3): 289-

302, https://doi.org/10.21608/ejss.2020.33931.1365

8. El-Sayed, M. A.; M. A. Faragallah; A. I. El-Desoky and **Mohamed E. Fadl, (2020). "Geostatistical Models for Land Capability Evaluation of Wadi Tag El-Wabar, Sohag, Egypt"**. Archives of Agricultural Sciences Journal, 3(2): 94-106, https://doi.org/10.21608/AASJ.2020.110194
9. Ahmed S. Abuzaid; Mohamed A. E. AbdelRahman; **Mohamed E. Fadl** and Antonio Scopa, (2021). **Land Degradation Vulnerability Mapping in a Newly-Reclaimed Desert Oasis in a Hyper-Arid Agro-Ecosystem Using AHP and Geospatial Techniques**. Agronomy. 11(7); 1426 https://doi.org/10.3390/agronomy11071426
10. Ahmed S. Abuzaid; Hossam S. Jahin; Amany A. Asaad; **Mohamed E. Fadl;** Mohamed A. E. AbdelRahman and Antonio Scopa, (2021). **Accumulation of Potentially Toxic Metals in Egyptian Alluvial Soils, Berseem Clover (*Trifolium alexandrinum L.*) and Groundwater after Long-Term Wastewater Irrigation**. Agriculture 2021. 11(8): 713. https://doi.org/10.3390/agriculture11080713
11. Sayed Y. A. and **Mohamed E. Fadl**, (2021). **Agricultural Sustainability Evaluation of the New Reclaimed Soils at Dairut Area, Assiut, Egypt using GIS Modelling**. The Egyptian Journal of Remote Sensing and Space Science, Egypt. J. Remote Sensing Space Sci. 24 (3): 707–719. https://doi.org/10.1016/j.ejrs.2021.08.002
12. Salman A. H. Selmy, Salah H. Abd Al-Aziz, Raimundo Jiménez-Ballesta, Francisco Jesús García-Navarro and **Mohamed E. Fadl** (2021). **Soil Quality Assessment Using Multivariate Approaches: A Case Study of the Dakhla Oasis**

Arid Lands. Land, 10(10). 1074. https://doi.org/10.3390/land10101074

13. Salman A. H. Selmy, Salah H. Abd Al-Aziz, Raimundo Jiménez-Ballesta, Francisco Jesús García-Navarro and **Mohamed E. Fadl** (2021). **Modeling and Assessing Potential Soil Erosion Hazards Using USLE and Wind Erosion Models in Integration with GIS Techniques Dakhla Oasis, Egypt**. Agriculture, 11(11), 1124. https://doi.org/10.3390/agriculture1111112
14. **Mohamed E. Fadl**, Ahmed S. Abuzaid, Mohamed A. E. AbdelRahman and Asim Biswas (2022). **Evaluation of Desertification Severity in El-Farafra Oasis, Western Desert of Egypt: Application of Modified MEDALUS Approach Using Wind Erosion Index and Factor Analysis**. Land, 11(1), 54. https://doi.org/10.3390/land11010054
15. Ahmed S. Abuzaid, Mohamed A. Abdel-Salam, Abeer F. Ahmad, Hala A. Fathy, **Mohamed E. Fadl** and Antonio Scopa (2022). **Effect of Marginal-Quality Irrigation on Accumulation of some Heavy Metals (Mn, Pb, and Zn) in *Typic Torripsamment* Soils and Food Crops**. Sustainability, 14(3), 1067; https://doi.org/10.3390/su14031067

Training Courses:

1. Application of Remote Sensing on Hydrology and Hydrogeology (Ap2). 4-8 May, 2008, NARSS, Cairo, Egypt.
2. Digital Image Processing (RS2). 5-9 July, 2009, NARSS, Cairo, Egypt.
3. Application of Remote Sensing on Soil and Agriculture Resources (Ap4). 19-26 July, 2009, NARSS, Cairo, Egypt.
4. Advanced Geographic Information Systems (GIS 2). 28 July -

2 June, 2009, NARSS, Cairo, Egypt.

5. Digital Image Processing (RS2). 9-13 August, 2009, NARSS, Cairo, Egypt.
6. Integration between Remote Sensing and GIS. 8-12 November, 2009, NARSS, Cairo, Egypt.
7. Integration between Remote Sensing and GIS. 17-21 January, 2010, NARSS, Cairo, Egypt.
8. Integration between Remote Sensing and Geographic Information Systems. 3-7 October, 2010, NARSS, Cairo, Egypt.
9. Digital Image Processing (RS2), (Hyperspectral Analysis, Vegetation Analysis, DEM Analysis). 17-21 October, 2010, NARSS, Cairo, Egypt.
10. Advanced Geographic Information Systems (GIS 2), (Network Analysis, Geometric Network). 29 May -2 June, 2011, NARSS, Cairo, Egypt.
11. Fundamentals of Hyperspectral techniques and analyses (electro optics payload laboratory, spectroradiometer and hyperspectral data applications), 26 Aug.-12 Sep., 2012, NARSS, Cairo, Egypt.
12. Application of Remote Sensing on Coastal and Marine Resources (AP3). 19-23 January, 2014, NARSS, Cairo, Egypt.
13. 2nd International Course on Agricultural Mechanization and Information Technologies, 12-16 May 2014. INTERNATIONAL AGRICULTURAL RESEARCH AND TRAINING CENTER (IARTC), Menemen, Izmir (Turkey).
14. LIFE HP: Electronic Learning “Data Representation”. 17 September 2014
15. LIFE HP: Electronic Learning “E-Mail for Bossiness”. 18 September 2014.

16. Geology of Egypt “Training course”. 21 September - 1 October, 2014, NARSS, Cairo, Egypt.
17. RADAR Polarimetry “Training course”. 7 December - 11 December, 2014, NARSS, Cairo, Egypt.
18. Fundamentals and applications of remote sensing, online course, Udemy, 20 February 2018.
19. Seminar on principles and applications of remote sensing and GIS for Egypt, Wuhan research institutes of posts and telecommunications, China, 10 - 23 September 1019.
20. ArcGIS and QGIS techniques, online course, Udemy, 26 March 2020.
21. COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response, World Health Organization (WHO), Health Emergencies Programme (HEP), 9 April 2020.
22. Historical Airphoto processing (HAP) with PCI Geomatics, online course, Udemy, 23 June 2020.
23. Guide to reference managers: How to effectively manage your references, Elsevier Researcher Academy, 13 July, 2020.
24. How to conduct evidence-based research, Elsevier Researcher Academy, 13 July, 2020.
25. Plagiarism: Decision making and dealing with grey-zones across academic Fields, Elsevier Researcher Academy, 13 July, 2020.
26. Publishing open access, Elsevier Researcher Academy, 13 July, 2020.
27. Make the most of your research: publish your data and methods, Elsevier Researcher Academy, 13 July, 2020.
28. A guide to journal citation metrics, Elsevier Researcher

Academy, 13 July, 2020.

29. Gender Bias in academic publishing, Elsevier Researcher Academy, 16 July, 2020.
30. How to leverage open hardware to improve your research, Elsevier Researcher Academy, 16 July, 2020.
31. Creating a good research data management plan, Elsevier Researcher Academy, 18 August, 2020.
32. How to manage and publish your research data, Elsevier Researcher Academy, 18 August, 2020.
33. Evaluating hydrogeological models in monitoring and mapping the phenomenon of water erosion, using remote sensing techniques and tributary systems, The Regional Center for Remote Sensing of North African Countries (CRTEAN), Tunisia, 22-23 October 2020.
34. Land wind erosion sensitivity aspects and resistance methods, using remote sensing techniques, The Regional Center for Remote Sensing of North African Countries (CRTEAN), in cooperation with the Institute of Arid Zones, Medenine – Tunisia, 14-16 June 2021.
35. Fit-for-Purpose Land Administration hands-on tools and techniques for mapping and information management, The Regional Center for Remote Sensing of North African Countries (CRTEAN), the Arab Land Initiative, UN-HABITAT and the Global Land Tool Network, 31 January – 2 February 2022.

Meetings:

1. The 4th International ASD Users Meeting “in Middle East: Analytical Spectrum Devices (ASD) Spectroradiometer”. NARSS, Egypt, 19-20 April, 2016.

2. National Authority for Remote Sensing and Space Sciences (NARSS) Entrepreneurs Club “Ideation Camp” held at NARSS, Cairo, Egypt, 24-26 October, 2021.

Workshops:

1. Planet Labs Interactive Workshop “Training Workshop”. 14-15 June, 2016, NARSS, Cairo, Egypt.
2. The importance of environmental sustainability to achieve the sustainable development goals, NARSS, Egypt, 13th January 2020.
3. Overview of SciVal and New Promotions Criteria, Researcher Academy On Campus Author workshop, Elsevier Researcher Academy, NARSS, Egypt, 4th February 2020.
4. Modern trends of agricultural development in order to support decision-making in light of the country's 2030 plan, NARSS, Egypt, 17th February 2020.
5. Nature Research Academies, workshop (Effective Academic writing) in collaboration with the Egyptian Knowledge Bank (EKB), 2021.
6. Capacity Building Session - Topics Selection Workshop (at MOHESR), Monday 19 April, 2021, Researcher Academy on Campus, Elsevier.
7. Scimago Research Centers in MEA Ranking - Workshop 2 - Scientific Journals Selection (Capacity Building Programme for Egyptian Researchers) Wednesday 26 May, 2021, Researcher Academy on Campus, Elsevier.
8. Scimago Research Centers in MEA Ranking - Workshop 3 - Manuscript Preparation (at MOHESR), Thursday 29 July, 2021, Researcher Academy on Campus, Elsevier.
9. Scimago Ranking Capacity Building Program (Enhancing

Research Visibility) at Ministry of Higher Education and Scientific Research, Wednesday on 29 September, 2021, Researcher Academy on Campus, Elsevier.

10. SEMINAR I. Rankings, Scimago SIR Ranking: Sources & Methodology (at MOHESR), on Tuesday 16 November, 2021, Researcher Academy on Campus, Elsevier.
11. Scimago Ranking Seminar 2, at Research Centers in Egypt, on Tuesday 18 January, 2022, Researcher Academy on Campus, Elsevier.
12. Scimago Ranking SEMINAR III, at RCs in Egypt by the MOHESR, on Tuesday 25 January, 2022, Researcher Academy on Campus, Elsevier.
13. Professional Writing of Grant Proposals: Submission, Review, contracting and getting funded, held on Sunday, 1/30/2022, in collaboration with the Egyptian Knowledge Bank (EKB) and Centre for Agriculture and Bioscience International (CABI).
14. Poster Booster: Professional writing of the title and Abstract held on Sunday, February 6, 2022, in collaboration with the Egyptian Knowledge Bank (EKB) and Centre for Agriculture and Bioscience International (CABI).

Conferences:

1. 1st International Conference on Advanced in Soil Sciences, 2-5 May 2016, Alex. Library, Alexandria, Egypt.
2. Geomakani 2016, Geospatial Technologies Conference, 17th May 2016, Cairo, Egypt.
3. Geomakani 2018, Geospatial Technologies Conference, 7-8 May 2018, Cairo, Egypt.
4. Geomakani 2019, 4th Geospatial Technologies Conference, 17-18 May 2019, Cairo, Egypt.

5. International Geoinformatics Conference 2021, Saudi Geographical Society, 29-31 March 2021, virtual conference.
6. International Conference of Nature and Natural Resources Conservation – Toward 2030 and Beyond. National Committee of Nature and Natural Resources Conservation - Academy of Scientific Research and Technology, Ministry of Higher Education and Scientific Research, Egypt - Sharm El Sheikh 28-31 August 2021.

Working visits:

- A working visit to the Saudi Coasts Development Company for aquaculture research - Jizan - Saudi Arabia, 2015.

Courses lecture:

1. Courses lecture at Division of Scientific Training and Continuous Studies, National Authority for Remote Sensing and Space Sciences (NARSS), 2008 to present.

Teaching at universities:

1. Teaching course (Advanced applications in remote sensing in physical geography), PhD Program in Physical Geography at Geographic department, Faculty of Arts, Cairo University, second term, studding year 2019-2020.
2. Teaching course (Geographical databases and their uses), Environmental Remote Sensing, Geographic Information Systems divisions and Maps, Survey and Geographic Information Systems program at Geographic department, Faculty of Arts, Zagazig University, first term, studding year 2020-2021.

Scientific Journals Reviewer

1- Review activity for Arabian journal of geosciences, Saudi

Society for Geosciences, Springer Nature Switzerland AG. Part of Springer Nature.

2- Review activity for Catena journal, Science Direct, Elsevier B.V.

3- Review activity for Environmental Engineering and Management Journal, "Gheorghe Asachi" Technical University of Iasi, Romania.

4- Review activity for Journal of Environmental Management, Science Direct, Elsevier B.V.

5- Expert reviewer activity for Academic Exchange Information Centre (AEIC) expert committee, Guangzhou, China.

6- Review activity for Environmental Science and Pollution Research, Springer-Verlag GmbH Germany, part of Springer Nature.

Languages:

1. Arabic: Native Language.
2. English: Speak fluently and Read/Write with good Proficiency.
3. Local TOEFL Test (score records 460).

Computer Skills:

1. Very Good Experience in Using Arc GIS, ENVI and Imagine Applications.
2. Excellent Knowledge of Microsoft Office.
3. Very good Experience Using Educational Tools such as Microsoft Power Point- Windows – Word – Internet.