

CURRICULUM VITAE**ASSEM ABDELMONEM AHMED MOHAMED****CONTACT
AND
PERSONAL
INFORMATION**

- ◆ Last Name: Mohamed
- ◆ Given Name: Assem
- ◆ Middle Name(s) Abdelmonem Ahmed
- ◆ Home Address: El-Fardos city, 6th of October City, Giza, Egypt, 12578
- ◆ Citizenship: Egyptian
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EDUCATION**Post-doctoral Fellowship (2014)**

- ◆ May- November 2014, at Italian Institute of Biometeorology (IBIMET) belongs to the National Research Council (CNR), Florence, Italy.
- ◆ Research Title: Assessment of climate change impacts on olive production in Oum Zessar watershed, Medenine, Tunisia.
- ◆ Main Achievements: Concern the assessment of the intra and interannual climate variability impacts on olive production, the detection of LULC changes, the development of a crop production model based on NDVI and climatic indicators.

PhD Degree in Agricultural Science (September 2012)

- ◆ Department: Agricultural Economics
- ◆ Name and Type of Organisation: Faculty of Agriculture, Ain Shams University, Cairo, Egypt.
- ◆ Dissertation Title: Environmental and demographical variations among Egyptian agricultural zones and their alternative uses in development of Egyptian agriculture.

M. SC. Degree in Agricultural Science (August 2008)

- ◆ Department: Agricultural Economics
- ◆ Name and Type of Organisation: Faculty of Agriculture, Ain Shams University.

- ◆ Thesis Title: Economics of some vegetable crops under different climatic zones in Egypt.

B. SC. Degree in Agricultural Science (June 2002)

- ◆ Department: Agricultural Economics
- ◆ Name and Type of Organisation: Faculty of Agriculture, Ain Shams University.

EMPLOYMENT RECORD

Occupation or Position Held:-

Research Professor

Affiliation:-

Institute Name

Ministry of Agriculture and Land Reclamation (MALR), Agricultural Research Center (ARC), Central Laboratory for Agricultural Climate (CLAC).

Department

Agro-meteorological Applications Research (AARD)

Dates

June 2002- present

Mailing Address

- ◆ 6, Dr. Michiel Bakoum St., El Dokki, Giza, Egypt, 12411
- ◆ P.O. box 296 Imbaba
- ◆ Web Site: <http://www.clac.edu.eg>
- ◆ Email: clac@arc.sci.eg
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Main Activities and Responsibilities:-

- ◆ Agricultural economics studies;
- ◆ Rural development and agricultural policy;
- ◆ Research methods & seminars in agribusiness management;
- ◆ Cost-benefit and cost-effectiveness analysis;
- ◆ Productivity & efficiency analysis;

- ◆ Socio- economic studies;
- ◆ Natural resource management and sustainability;
- ◆ Agro- biodiversity and ecosystem services;
- ◆ Costs and benefits of climate change mitigation and adaptation;
- ◆ Climate change adaptation in agriculture sector;
- ◆ Climate change and agricultural productivity;
- ◆ GHG emissions and carbon sequestration in agriculture sector;
- ◆ Sensitivity and climate change impact chains analysis in agricultural sector;
- ◆ Sustainable water management;
- ◆ Responsible for preparing feasibility studies for the newly proposed projects small enterprises and researches;
- ◆ Applied research for examining the financial and economical feasibility studies of agricultural projects;
- ◆ Participating in the extension activities of the agricultural technology transfer packages submitted farmers and investors.

Work Experience:-

Employer	Position	Dates
AARD- CLAC	Deputy Head of Department	December 2023- present
CLAC-ARC	Research Professor	August 2023- present
CLAC-ARC	Head of GIS Unit	January 2023- present
CLAC-ARC	Senior Researcher	July 2018- July 2023
AARD- CLAC	Head of the Agricultural Economics Research Unit	October 2016- June 2018
CLAC-ARC	Researcher	June 2013- June 2018
IBIMET- CNR- Florence- Italy	Researcher	May 2014- November 2014
AARD- CLAC	Head of the Socio- economic Research Unit	April 2012- April 2014
CLAC-ARC	Assistant Research	September 2011- May 2013

*Central Laboratory for Agricultural Climate
(CLAC)*

CLAC-ARC	Research Associate	September 2008- August 2011
CLAC-ARC	Research Assistant	July 2002- August 2008
CLAC-ARC	Agricultural Economist	July 2002- Present

**ORGANISATIONAL
AND
LEADERSHIP
EXPERIENCE**

- ◆ 2021, Researcher, and supervisor of Delta Governorates of the project "**Application of Artificial Intelligence to Define Farmlands Boundaries and Map Crop Types**". A joint cooperation between the Ministry of Communications and Information Technology (MCIT) and the Ministry of Agriculture and Land Reclamation (MALR).
- ◆ **Public Administration Diploma (2019)**. The Ministry of Planning, Follow-up, and Administrative Reform, in cooperation with the American University in Cairo and King's University in London in order to build the capacity of government officials in preparation for the transition to the New Administrative Capital by providing masters programs and training courses. This program is a joint program between the **American University in Cairo**, (the faculty of Business Administration), the School of Global Affairs and Public Policy (GAPP), and **King's College** of Business Administration (KCL) and International School for Government (part of Kings College Faculty of Social Science & Public Policy) The program provides personal awareness and organisational impact and aligns the system to enable government leaders to develop and upgrade their public service institutions by identifying best practices in leadership, management, and institutional reform.
- ◆ 2016- 2017, member and economic consultant of the project "**Sustainable Potato Production under Climate Change Conditions**". The project aims to assess the potential impacts of climate change on potato cultivation for enhanced adaptation and management practices in North Egypt. Funded by the Alexandria Research Center for Adaptation to Climate Change (ARCA)& IDRC Canada.
- ◆ 2012, representing CLAC in **Mobile Extension Project**, preparing specific recommendations service for guiding farmers' subscribers as text messages at mobiles about weather station data, to making good agricultural practices for IPM for crops, by preparing recommendations and sent to the Egyptian company for trading and communications services (Quick Service).
- ◆ 2011- 2015, member of the expert working group of the project "**Raising the Efficiency of the Use of Groundwater by Modern Irrigation**

Systems in New Valley" (REMIS), have launched a study project to evaluate the performance of different irrigation system and increase production and quality of field crops able to apply under high iron concentration in the water, implemented by (CLAC), ARC.

- ◆ 2011- 2013: Chief economist and member of the expert working group of the project "**Climate Protection, Natural Resources Management and Soil Improvement by Combined Energetic and Material Utilization of Lignocellulosic Agricultural Wastes and Residues**", to liberate ethanol production from rice straw by microorganism and fermentation, implemented by CLAC, The bilateral project was funded in the framework of the German-Egypt-Research-Fond (GERF) by the German Federal Ministry of Education and Research (BMBF) and the Egyptian Science and Technology Development Fund in Egypt (STDF).
- ◆ 2011, member of the expert working group of the project "**Economical of Solar Water Desalination Technology Application for Bedouin Settlements**" (EESWDTABS), implemented by Agricultural Engineering Research Institute (AENRI), ARC, funded by the Agricultural Research and Development Fund (ARDF), MALR.
- ◆ 2009- 2013, member of the expert working group of the project "**Impacts and Adaptations of Climate Change (Sea-level Rise) on Agricultural Production under Egyptian Conditions**" (IACCAPE), implemented by CLAC, funded by the Agricultural Research and Development Fund (ARDF), MALR.
- ◆ 2009- 2013, member of the expert working group of the project "**Monitoring of Climate Change Risk Impacts of Sea Level Rise on Groundwater and Agriculture in the Nile Delta**", implemented by, CLAC, ARC, funded by the FAO.
- ◆ 2009- 2010, member of the project "**Using Geographic Information System to Survey the Poultry Farm in Sharkia**", Sharkia Governorate, Egypt.
- ◆ January 2008 to June 2010: Researcher, and supervisor of Minia Governorate (Middle Egypt Governorate) in the project of "**Comprehensive Investigations of Productivity of Agriculture in the Nile Delta and Valley**" (CIPA), implemented by MALR through its research institute (CLAC/ ARC), and International Branch of the French Mapping Agency (IGN-FI), have launched a study project to assess the crops acreage and estimate some yield of crops over the Nile valley and Nile delta.

- ◆ June 2007 to June 2009: Economist and member of the research team of the project "**Production of High Value Mushroom under Different Climatic Condition**", to prepare the financial assessment, and to study the economics of new types of mushroom within the project rural development through integrated waste management, implemented by CLAC, ARC.
- ◆ March 2007 to August 2009: Researcher and head of map exporting group in CLAC teamwork of the project "**National Area-Wide Peach Fruit Fly Eradication Program**" by making the geographical maps using [Arc Map] software.
- ◆ January 2007 to June 2009: Researcher in CLAC teamwork for FP6 project "**Adaptation of Agriculture in European Regions at Environmental Risk Under Climate Change**" (ADAGIO). Aimed to formulate recommendations for the mitigation of climate change effects in agriculture and the incorporation of adaptation options in the Common Agricultural Policy (CAP) and rural development programmes.
<http://www.adagio-eu.org>
- ◆ Jan 2004- June 2006, member of the expert working group of the project "**The Safe Utilization of Farm Wastes**" (SUOFW), implemented by CLAC, ARC.
- ◆ Head of nutrition department, 6th October dairy compound, National Service Products Organisation- Egyptian Ministry of Defense, Alexandria Governorate (2005).
- ◆ Head of plant production (Greenhouses & open field) and animal production, Wadi El-Mollak farm, National Service Products Organisation- Egyptian Ministry of Defense, Ismailia Governorate (2003-2004).

PUBLICATIONS

LIST OF PUBLICATIONS**Refereed Publications****(I) Refereed Scientific Articles:-**

- ◆ *Assem A. A. Mohamed*, A. A. M. Esmail, Emad F. Abdelaty (2024). **Can the Small-Scale Producers of Navel Orange Resist the Stability of the Farm Gate Prices and the Soar of the Input Prices within the Biophysical Factors?** Agricultural Socio-Economics Journal (AGRISE), 24(1): 39-47. DOI: <https://doi.org/10.21776/ub.agrise.2024.024.1>
- ◆ Shaymaa A.A. Badr, Sarah N. Abd EL-Khalek, *Assem A. A. Mohamed* (2024). **Profitability of Using Zeolite and Lithovite for Elevating The**

- Tolerance of Lavender Plants Under Water Deficit.** Sustainability in Food and Agriculture (SFNA), 5(1): 19-34. DOI: [10.26480/sfna.01.2024.19.34](https://doi.org/10.26480/sfna.01.2024.19.34)
- ◆ **Assem A. A. Mohamed**, Mohamed A. Attala, Mona H. G. Ali, A. A. M. Esmail, (2023). **Economic Assessment of Coloured Shade Net Improve Growth and Yield in Mango CV. Keitt.** Current Topics in Agronomic Science, Vol. 3 Issue 1. doi.org/10.5154/r.ctasci.2023.03.01
 - ◆ **Assem A. A. Mohamed**, Mohamed A. A. Abdrabbo, Mahmoud A. Medany, A. A. M. Esmail (2023). **Economical Evaluation of Mango (cv. Keitt) Trees Under Coloured Shade Nets.** Reviews in Food and Agriculture (RFNA). 4 (1): 13- 16. DOI: [10.26480/rfna.01.2023.13.16](https://doi.org/10.26480/rfna.01.2023.13.16)
 - ◆ Mahmoud A. Medany, **Assem A. A. Mohamed**, Mohamed A. Attala, Mona H. G. Ali (2023). **The Future Status of Egyptian Date Palm After The 2.5 Million Palm Trees-National Project.** Sustainability in Food and Agriculture, 4(1): PP. 20-27. DOI: [10.26480/sfna.01.2023.20.27](https://doi.org/10.26480/sfna.01.2023.20.27)
 - ◆ **Assem A. A. Mohamed**, M. G. El-Nagger; M. M. M. Abdelaziz, W. F. Abobatta (2022). **"Economic Feasibility For the Production of Jatropha on A Small Scale Irrigated By Treated Wastewater"**. Food & Agribusiness Management (FABM), Volume 3, Issue 1. PP. 20- 24. DOI: [10.26480/fabm.01.2022.20.24](https://doi.org/10.26480/fabm.01.2022.20.24)
 - ◆ Ahmed H. Rabia, Emad Fawzy Abdelaty, Maha Lotfy Elsayed, **Assem A. A. Mohamed**, Fatma Wassar, Edoardo Fiorillo, Andria Di Vecchia and Vieri Tarchian (2021) **"Change Detection of Olive Trees Distribution using Semi-Automated Object Based Image Classification"**. Alexandria Science Exchange Journal, Volume 42, Issue 4. PP. 857-869. DOI: [10.21608/asejaiqsae.2021.205324](https://doi.org/10.21608/asejaiqsae.2021.205324)
 - ◆ Ahmed H. Rabia, **Assem A. A. Mohamed**, Emad Fawzy Abdelaty, Sara Fekry Shahin and Dalia M. M. Yacout (2021) **"Investigating Adaptation Strategies Developed by Potato Farmers to Cope with Climate Change Impacts in Egypt"**. Alexandria Science Exchange Journal, Volume 42, Issue 4. PP. 871-881. DOI: [10.21608/asejaiqsae.2021.205325](https://doi.org/10.21608/asejaiqsae.2021.205325)
 - ◆ Annisa Joviani Astari, **Assem Abdelmonem Ahmed Mohamed**, Riki Ridwana (2021). **"The Role of Geographic Information Science in Achieving Sustainable Development Goals (SDGs) During The Covid-19 Pandemic"** Jurnal Geografi Gea, Volume 21, No 2. PP. 112- 122. <https://doi.org/10.17509/gea.v21i2.39418>
 - ◆ **Assem A. A. Mohamed**, Mona Maez, Mohamed. M. M. Abdelaziz and

Alaa. A. Khalil (2021). **"Assessing the Impacts of Climatic Factors on Cotton Yield and its Economic Indicator"**. Journal of Applied Life Sciences and Environment. Vol. LIV, Issue 2 (186): 166-182.

<https://doi.org/10.46909/journalalse-2021-016>

- ◆ A. M. El Sawy, Mona M. Aly and *Assem A. A. Mohamed* (2021) **"Profitability of Liliun Flowers Production as Influenced by Light and Ascorbic Acid in a Greenhouse"**. African Journal of Agriculture and Food Science, Vol. 4 No 1. PP. 22- 35.
- ◆ Kai M. A. Chan, David R. Boyd, Rachelle K. Gould, Jens Jetzkowitz, Jianguo Liu, Barbara Muraca, Robin Naidoo, Paige Olmsted, Terre Satterfield, Odirilwe Selomane, Gerald Singh, Rashid Sumaila, Hien Ngo, Agni Klintuni Boedhihartono, John Agard, Ana Paula D. de Aguiar, Dolores Armenteras, Lenke Balint, Christopher Barrington-Leigh, William W. L. Cheung, Sandra Díaz, John Driscoll, Karen Esler, Harold Eyster, Edward J. Gregr, Shizuka Hashimoto, Gladys Cecilia Hernández Pedraza, Thomas Hickler, Marcel Kok, Tanya Lazarova, *Assem A. A. Mohamed*, Mike Murray-Hudson, Patrick O'Farrell, Ignacio Palomo, Ali Kerem Saysel, Ralf Seppelt, Bernardo Strassburg, Dayuan Xue (2020). **Levers and Leverage Points for Pathways to Sustainability**. People and nature 2(3). PP. 693-717. <https://doi.org/10.1002/pan3.10124>
- ◆ Luca Coscieme, Hakon da Silva Hyldmo, Alvaro Fernandez-Llamazares, Ignacio Palomo, Tuyeni H. Mwampamba, Odirilwe Selomane, Nadia Sitas, Pedro Jaureguiberry, Yasuo Takahashi, Michelle Lim, Maria P. Barral, Juliana S. Farinaci, Julio Diaz- Jose, Sonali Ghosh, Joyce Ojino, Amani Alassaf, Bernard N. Baatuuwie, Lenke Balint, Zeenatul Basher, Fanny Boeraeve, Sugeng Budiharta, Ruishan Chen, Maylis Desrousseaux, Gregory Dowo, Catherine Febria, Houda Ghazi, Zuzana Harmačkova, Rodolfo Jaffe, Mphatso M. Kalemba, Cosmas K. Lambini, Felicia P. S. Lasmana, *Assem A. A. Mohamed*, Aidin Niamir, Patricio Pliscoff, Rahat Sabyrbekov, Uttam B. Shrestha, Aibek Samakov, Anna A. Sidarovich, Laura Thompson, Mireia Valle (2020). **Multiple Conceptualizations of Nature are Key to Inclusivity and Legitimacy in Gobal Environmental Governance**. Environmental Science and Policy Journal 104, 36–42.
<https://doi.org/10.1016/j.envsci.2019.10.018>
- ◆ Mohamed A. A. Abdrabbo, *Assem A. A. Mohamed*, Fadl A. Hashem and Ahmed S. A. Hegab, December 2018. **"Economic Profitability of Sweet Pepper Production Under Different Irrigation Levels And Polyethylene Mulch In A Plastic Greenhouse"**. APSTRACT: Applied Studies in Agribusiness and Commerce, Vol. 12. (3 -4). PP.109-116.

DOI: [10.19041/APSTRACT/2018/3-4/13](https://doi.org/10.19041/APSTRACT/2018/3-4/13)

- ◆ Ahmed H. Rabia, Dalia M. M. Yacout, Sara .F. Shahin, **A.A.A. Mohamed** and Emad Fawzy Abdelaty, 2018. **Towards Sustainable Potato Production under Climate Change Conditions**. Current Applied Science and Technology, Vol. 18 No 3 : PP. 200- 207.

DOI: [10.14456/cast.2018.15](https://doi.org/10.14456/cast.2018.15)

- ◆ **Mohamed A. A. A.** and M. G. El- Nageer, 2018. **Economic Analysis of Protected Cultivation: Comparison of Vegetable vs. Fruit**. Journal of Agricultural Science (JAS), Vol. 10, No. 3: PP. 187- 196.

DOI: <https://doi.org/10.5539/jas.v10n3p187>

- ◆ Manal M. H. Gad EL moula; **A.A.A. Mohamed**; A. T. Elmorsy and A.A.Farag, 2018. **The Action and Interaction of Different Planting Dates and Organic Fertilizers on the Growth and Yield of Okra Plants**. Journal of Agriculture and Ecology Research International (JAERI), 14 (1): PP. 1-14. DOI: [10.9734/JAERI/2018/38255](https://doi.org/10.9734/JAERI/2018/38255)

- ◆ Michelle Lim; Abigail J. Lynch; Álvaro Fernández-Llamazares; Lenke Balint; Zeenatul Basher; Ivis Chan; Pedro Jaureguiberry; **A. A. A. Mohamed**; Tuyeni H. Mwampamba; Ignacio Palomo; Patricio Pliscoff; Rashad A. Salimov; Aibek Samakov; Odirilwe Selomane; Uttam B. Shrestha and Anna A. Sidorovich, (2017). **Early- career Experts Essential for Planetary Sustainability**. Current Opinion in Environmental Sustainability, 29:151–157.

DOI: <https://doi.org/10.1016/j.cosust.2018.02.004>

- ◆ 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): PP. 37-47.

DOI: [10.20448/808.2.1.37.47](https://doi.org/10.20448/808.2.1.37.47)

- ◆ Esmail A. A. M.; K. M. Refaei; **A.A.A. Mohamed** and F. A. Hashem. 2017, **Water Budget Economy of Navel Orange Production under Screen Net**. International Journal of Pure Agricultural Advances. 1(1): 10-23. DOI: [10.20448/813.11.10.23](https://doi.org/10.20448/813.11.10.23)

- ◆ **Mohamed A. A. A.**, R. K. Ibrahim and M. A. M. Elesaily. 2017, **Low Cost Fermenter for Ethanol Production from Rice Straw in Egypt**. Agricultural Mechanization in Asia, Africa and Latin America (AMA). vol. 48, no. 1, pp. 7- 12.

- ◆ Abou-Hadid, A. F., **A. A. A. Mohamed**; M. S. M. Ahmed and M. A. A. Abdrabbo, 2015. **Trend of Change in Cultivated Area and Water Budget for Major Crops in Egypt Using GIS and Field Survey**

Technique". Journal of Agricultural Informatics (JAI). vol. 6, no. 3, pp. 42- 56. DOI: [10.17700/jai.2015.6.3.199](https://doi.org/10.17700/jai.2015.6.3.199)

- ◆ **Mohamed A. A. A.**, M. A. A. Abdrabbo, M. Abul-Soud and A. A. Farag, September 2015. **Economic Considerations of Using Different Types of Organic Manure on Sweet Pepper Yield under Protected Cultivation.** International Journal of Innovation and Applied Studies (IJIAS). vol. 13, no. 1, pp. 185- 189.
- ◆ **Mohamed, A. A. A.** and Medany M. A., 2015. **Economic Indicators of Navel Orange and Keitt Mango: Comparison of Net Greenhouses vs. Open Field.** International Journal of Development Research (IJDR) 5 (06): pp. 4640- 4644.
- ◆ Abu- Hadid, A. F.; M. A. Medany; M. Abdrabbo; M.K. Hassanein; A.A. Farag; S.M. Abolmaaty; A.A. Khalil1; K.M. Refaie; S.M. Saleh; F.A. Hashem; **A.A.A. Mohamed**; M. Saied; A. Kadah; T. Kadah; M. Kadah; A.T. El-Morsi; M. Bertin; G. Jaffrain and A. Elgueroua, 2010. **Preliminary Studies Using GIS and Field Survey to Determine Land Cover in Egypt.** Arab Univ., J. Agric. Sci., Ain shams Univ., Cairo, 18 (1): pp. 229- 236. DOI: [10.21608/ajs.2010.15009](https://doi.org/10.21608/ajs.2010.15009)

(II) Book Chapters

- ◆ Mrabet R, Savé R, Toreti A, Caiola N, Chentouf M, Llasat MC, **Mohamed AAA**, Santeramo FG, Sanz-Cobena A, Tsikliras A 2020 Food. In: **Climate and Environmental Change in the Mediterranean Basin – Current Situation and Risks for the Future.** First Mediterranean Assessment Report [Cramer W, Guiot J, Marini K (eds.)] Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France, pp. 237-264.
[doi:10.5281/zenodo.7101080](https://doi.org/10.5281/zenodo.7101080)
- ◆ Chan, K. M. A., Agard, J., Liu, J., Aguiar, A.P.D., Armenteras, D., Boedhihartono, A. K., Cheung, W. W. L., Hashimoto, S., Pedraza, G. C. H., Hickler, T., Jetzkowitz, J., Kok, M., Murray-Hudson, M., O'Farrell, P., Satterfield, T., Saysel, A. K., Seppelt, R., Strassburg, B., Xue, D., Selomane, O., Balint, L., and **A. Mohamed**. 2019. Ch5. **Pathways towards a Sustainable Future.** In: Global assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. Brondízio, E. S., Settele, J., Díaz, S., Ngo, H. T. (eds). IPBES secretariat, Bonn, Germany.
[DOI: 10.5281/zenodo.3832099](https://doi.org/10.5281/zenodo.3832099)

(III) Reports, reviewed

- ◆ MedECC (2020), **Climate and Environmental Change in the**

Mediterranean Basin – Current Situation and Risks for the Future. First Mediterranean Assessment Report [Cramer, W., Guiot, J., Marini, K. (eds.)] Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France, 632pp. ISBN: 978-2-9577416-0-1

DOI: [10.5281/zenodo.4768833](https://doi.org/10.5281/zenodo.4768833)

- ◆ IPBES (2019), **Global Assessment Report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services**, Brondízio, E. S., Settele, J., Díaz, S., Ngo, H. T. (eds). IPBES secretariat, Bonn, Germany. 1144 pages. ISBN: 978-3-947851-20-1

(IV) Conference Publications

- ◆ *Assem A. A. Mohamed* (2022). "An Economic Viability of Keitt Mango Production under Different Cloured Shade Net VS Open Field". Africa Food Manufacturing Exhibition- Fi Africa Conference, 29- 31 May, Egypt International Exhibition Center, Cairo, Egypt.
- ◆ *Assem A. A. Mohamed* (2021). "An Economic Production of Keitt Mango under Protected and Open Field Conditions in North Egypt". Africa Food Manufacturing Exhibition- Fi Africa Conference, 2- 4 August, Egypt International Exhibition Center, Cairo, Egypt.
- ◆ Anna Sidorovich, Fellows from the Global , Africa, Asia and the Pacific, Americas, Europe and Central Asia, Land Degradation, Values, Sustainable Use, and Scenarios and Models assessments. "IPBES Fellowship Programme: Perspectives from the IPBES fellows". **Environmental Knowledge and Policy Innovation between East and West Lessons Learned and not?** 28- 30 May 2019. Minsk, Belarus.
- ◆ Odirilwe Selomane, Global Assessment Fellows, Africa Assessment Fellows, Americas Assessment Fellows, Asia-Pacific Assessment Fellows, Europe-Central Asia Assessment Fellows, Land Degradation and Restoration Assessment Fellows, Values Fellows, Sustainable Use Fellows and Scenarios and Model Fellows. "**The IPBES fellows on alumni network**". Seventh Session of the IPBES Plenary (IPBES-7), 29 April- 4 May 2019, Paris, France.
- ◆ *Assem A. A. Mohamed* (2019). "Sensitivity and Climate Change Impact Chain Analysis for Egyptian Wheat". Africa Food Manufacturing Conference, 7-9 April, Cairo, Egypt.
- ◆ Laura M. Thompson, Africa Assessment Fellows, Americas Assessment Fellows, Asia-Pacific Assessment Fellows, Europe-Central Asia Assessment Fellows, Global Assessment Fellows, Land Degradation and Restoration Assessment Fellows. "**Perspectives from IPBES fellows on**

the assessment process". American Geophysical Union Meeting, 14 December 2018, Washington, D.C., USA.

- ◆ A.H. Rabia, E.F. Abdelaty, M.L. Elsayed, H. Mairech, **A. A. A. Mohamed**, F. Wassar, E. Fiorillo, F. Ungaro, V. Tarchiani, and A. De Vecchia. (2015) **"Using Geobia in studying land use and land cover changes"**. First Conference on Proximal Sensing Supporting Precision Agriculture, Turin, Italy.
- ◆ **Mohamed, A. A. A.**; M. A. Medany; S.M. Makled and B.M. Moursi (2008). **"Economics of some vegetable crops under different climatic zones in Egypt"**. International conference on dry land development commission, 7-10 November, Alexandria, Egypt.

(V) Papers in Progress:-

- ◆ Annisa Joviani Astari1, Silmi Afina Aliyan, Muhammad Haikal Ihsan, Alnidi Safarach Bratanegara, Lili Somantri, Ahmad Bukhori Muslim, Vira Islami Nurawaliyah, Agil Akbar Fahrezi, **Assem A.A. Mohamed** (2024). "Understanding the scope of regional geography: a perspective from Indonesia's Geographic Region".
- ◆ Abdel Wahab M. M, Sabry A. Hegab, **Assem A. A. Mohamed**, Y.H. Essa, Essam Hamad, and Khalil A. A. (2024). Profitability of Maize Production under Limited Water Requirements and Different Irrigation Methods for Smallholder Farmers.
- ◆ M. Elsayed, F. Wassar, E. F. S. Abdelaty, H. Mairech, A. Rabia, **A.A.A. Mohamed**, F. Maselli, M. Chiesi, A. Di Vecchia, V. Tarchiani, F. Ungaro, E. Fiorillo (2023) "Use of C-Fix model to evaluate NDVI values and to estimate fresh fruit yield of olive trees in Oum Zessar Watershed, Tunisia.
- ◆ Rabia, A. H., Abdelaty, E. F., Elsayed, M. L., Mairech, H., **A. A. A. Mohamed**, Wassar, F., Fiorillo, E., Di Vecchia, A. Ungaro, F., Tarchiani, V.(2024). Remote Sensing of the Anthropogenic Activities Impacts on Olive Trees Distribution in Oum Zessar Watershed in Tunisia.
- ◆ **Assem A. A. Mohamed** (2024). Economic viability of Jojoba Seeds Production Involving a Smallholder Production System.

Refereed Publications (Arabic Language)

(I) Refereed Scientific Articles

- ◆ Mohamed. M. M. Abdelaziz; Mona A. T. Huseein; **Assem A. A. Mohamed**, (2023). **Estimating the Production Efficiency of the Navel Orange Crop (A Case Study of a farm in Qalybia Governorate)**. Egyptian Journal of Agricultural Economics. Volume 33 (3): 1141- 1159.

DOI:[10.21608/meae.2023.225550.1217](https://doi.org/10.21608/meae.2023.225550.1217)

- ◆ **Mohamed, A. A. A.**, (2014). **A Preliminary Estimation of Economic Impacts of Future Climate Change on Some Egyptian Crops.** J. Biol. Chem. Environ. Sci. 9 (3): pp. 555- 568.
- ◆ **Mohamed, A. A. A.**; M. H. Salem, B. M. Moursi and M. A. Medaney, (2013). **Economic Return of Alternative Cropping Pattern in the Different Agro- ecological Zones of Egypt.** Egyptian Journal of Agriculture Research. 91 (3): pp. 1131- 1158. DOI: [10.21608/ejar.2013.167088](https://doi.org/10.21608/ejar.2013.167088)
- ◆ **Mohamed, A. A. A.**; M. H. Salem, B. M. Moursi and M. A. Medaney, (2013). **The Use of Linear Programming to Estimate the Optimum Cropping Pattern in the Different Agro- ecological Zones of Egypt.** Egyptian Journal of Agriculture Research. 91 (2): pp. 717- 744.
- ◆ **Mohamed, A. A. A.**; M. H. Salem, B. M. Moursi and M. A. Medaney, (2013). **The Economical Return of Alternative Cropping Pattern Aimed to Maximization the Total Net Return of Water Unit in Agro-ecological Zones of Egypt.** Egyptian Journal of Agriculture Research. 91 (2): pp. 745- 772. DOI: [10.21608/ejar.2013.164023](https://doi.org/10.21608/ejar.2013.164023)
- ◆ **Mohamed A. A. A.**; M. H. Salem, B. M. Moursi and M. A. Medaney, (March 2012). **An Economical Analysis of the Production Costs for Some Vegetable Crops under Different Climatic Zones of Egypt.** Egyptian Journal of Agricultural Economics. Vol. 22, No. (1): pp. 289-300.
- ◆ **Mohamed, A. A. A.**; T. M. El Sentarecy, I. A. Hegab and H. M. Zedan, (2011). **Effects of Temperature, Solar Radiation and Relative Humidity on Tomato Crop Yields under Different Climatic Zones in Egypt.** J. Biol. Chem. Environ. Sci. 6 (3): pp. 385- 400.
- ◆ **Mohamed, A. A. A.**; B. M. Moursi, S. M. Makled and M. A. Medany, (2010). **Effects of Temperature on Some Vegetable Crop Yields under Different Climatic Zones in Egypt.** Egyptian Journal of Agriculture Research, 88 (2): pp. 597- 614. DOI: [10.21608/ejar.2010.188110](https://doi.org/10.21608/ejar.2010.188110)
- ◆ **Mohamed, A. A. A.**; B. M. Moursi, S. M. Makled and M. A. Medany, (2010). **Statistical Analysis of the Production Function and Farming Cost Function for Some Vegetable Crops under Different Climatic Zones in Egypt.** Egyptian Journal of Agriculture Research, 88 (4): pp. 1427- 1447.
- ◆ **Mohamed, A. A. A.**; B. M. Moursi, S. M. Makled and M. A. Medany, (2010). **Spatiality effects on some vegetable crops yield under different climatic zones in Egypt.** Egyptian Journal of Agriculture Research, 88

(4): pp. 1395- 1425.

(II) Journal Review Article

- ◆ **Assem A. A. Mohamed. Expected Economic Impacts of Climate Change on the Ocean** (January 2021). Assiut Journal of Environmental Studies, Environmental Studies and Research Center- Assiut University. Vol. 50: pp. 27- 39.
- ◆ **Assem A. A. Mohamed** (January 2020). **China's New Structural Changes for Reducing Emission and Better Growth**. Assiut Journal of Environmental Studies, Environmental Studies and Research Center- Assiut University. Vol. 49: PP. 77- 92.
- ◆ **Assem A. A. Mohamed** (January 2019). **Circular Economy, Food and Environment**. Assiut Journal of Environmental Studies, Environmental Studies and Research Center- Assiut University. Vol. 48: pp. 7-23.
- ◆ **Assem A. A. Mohamed**, (July 2015). **China's Renewable Energy Long March**. Assiut Journal of Environmental Studies, Environmental Studies and Research Center- Assiut University. Vol. 42: pp.9- 19.

(III) Conference Publications

- ◆ **Mohamed, A. A. A.;** S. M. Makled and H. M. Zedan, (2010). Effects of Temperature, Solar Radiation and Relative Humidity on Potato Crop Yield under Different Climatic Zones in Egypt. J. Biol. Chem. Environ. Sci. 5 (3): 769- 785.

Publications intended for the general public (Arabic Language)

(i) Environmental & Agricultural Technical Bulletins

- ◆ **Climatic factors and their relationship with the quality of growth, production, marketing and exporting of potatoes** (2020). Technical Bulletin No (4), General Administration of Agrarian Culture, MALR.
- ◆ **Sweet Potato Production for Exporting** (2018). Technical Bulletin No (10), General Administration of Agrarian Culture, MALR.
- ◆ **Economics of the Production of Some Types of Mushroom** (2016). Technical Bulletin No (20), General Administration of Agrarian Culture, MALR.
- ◆ **Nontraditional Crops Production in Egypt for Export** (2015). Technical Bulletin No (2).General Administration of Agrarian Culture, MALR.
- ◆ **Guide of the Egyptian Exporter for the Invasion of Foreign Markets** (2009). Technical Bulletin No (25), General Administration of Agrarian

Culture, MALR.

- ◆ **Roof Garden in Egypt** (2006). Information Bulletin, Central Laboratory for Agricultural Climate (CLAC), Agricultural Research Center (ARC), (MALR),

(ii) Forthcoming Agricultural Technical Bulletins:-

- ◆ Citrus Production, Marketing and Economics (2024). Technical Bulletin.

Extension Publications (Arabic Language)

(i) Environmental Proceeding Articles

- ◆ **The international day for the preservation of the ozone layer** (September 2024). Agriculture world, Egyptian Agriculture Platform.
- ◆ **Why we should build nature-friendly cities** (August 2024). Green future Platform.
- ◆ **Road to COP 29: funding and alliances** (August 2024). The Egyptian Agricultural Platform, Agricultural Extension Sector, MALR.
- ◆ **Climate and economic benefits of deforestation** (July 2024). Agri2day agricultural electronic journal.
- ◆ **Is 1.5°C just a number or a harbinger of climate change?** (July 2024). Agri2day agricultural electronic journal.
- ◆ **Nitrogen...from a blessing to a curse** (March 2024). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 162. <https://www.maan-ctr.org/magazine/article/4146/>
- ◆ **Carbon emissions...a by-product of human well-being** (December 3, 2023) Jawak Platform.
- ◆ **Climate Changes...and the Consequences of Rising Temperatures** (November 15, 2023) Jawak Platform.
- ◆ **Heat inflation and its Impact on Supply Chains** (September 17, 2023). nok6a Scientific Journal (Arab Scientific Community).
- ◆ **Plastic between the Devil of Pollution and the Reliance on Fossil Fuels** (January 1, 2023). Scientific Magazine Ahram.
- ◆ **The Path of Used Vehicles between MEDCs and LEDCs Countries and Their Environmental Risks** (December 16, 2022). nok6a Scientific Journal (Arab Scientific Community).
- ◆ **Convention on Biological Diversity Fifteenth Meeting of the Conference of the Parties: Dreams and Aspirations** (December 2022). Scientific Magazine Ahram.

- ◆ **19th Meeting of the Conference of the Parties to Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)**, November 17, 2022. Scientific Magazine Ahram.
- ◆ **Will the transition from promises to implementation occur during the Sharm el-Sheikh conference?** (November 2022). Scientific Magazine Ahram.
- ◆ **The Most Important Messages Regarding the Various Concepts of Values of Nature and its Benefits, Including the Functions of Biodiversity and the Ecosystem.** (October 2022). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 149. <https://www.maan-ctr.org/magazine/article/3644/>
- ◆ **Global Plastic Waste and its Various Pathways to the Ocean** (August 28, 2022). Scientific Magazine Ahram.
- ◆ **Nature-based Solutions for Climate Change Adaptation and Disaster Risk Reduction** (July 2022). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 146. <https://www.maan-ctr.org/magazine/article/3517/>
- ◆ **Climate Change in Light of the IPCC Sixth Assessment Report** (May 2022). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 144. <https://www.maan-ctr.org/magazine/article/3447/>
- ◆ **When Oceans Turn from being a Victim to a Climate Change Dilemma Solving Tool.** (February 2022). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 141. <https://www.maan-ctr.org/magazine/article/3306/>
- ◆ **Environmental, Social and Economic Impacts of Extreme Weather Events.** (September 2021). Food Magazine, issued by AHDO Development Academy Vol. 5, pp. 6-7.
- ◆ **How Using Crop Diversity Can Reduce Food Loss** (August 2021). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 137. <https://www.maan-ctr.org/magazine/article/3133/>
- ◆ **Food Waste and its Impact on the Environment** (June 2021). The Arab Farmer Magazine. Vol. 56 pp. 6- 7. <https://agrimatcomaroc.com/wp-content/uploads/2021/06/Arab-Farmer-Magazine-Edition-56.pdf>
- ◆ **Unprecedented Levels of World's Methane Emissions** (June 2021). Food Magazine, issued by AHDO Development Academy Vol. 4, pp. 20.
- ◆ **Bright Glimpses towards Zero Emissions** (June 2021). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol.

135. <https://www.maan-ctr.org/magazine/article/3033/>
- ◆ **Deliberate Precautions or Plastic Pollution** (October 2020). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 129. <https://www.maan-ctr.org/magazine/article/2768/>
 - ◆ **Sustainable Investment to Improve the Future of the Ocean and Cryosphere to Reduce the Negative Impacts of Climate Change** (August 2020). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 127. <https://www.maan-ctr.org/magazine/article/2704/>
 - ◆ **Mangroves are Nature's Tool Against Changing Climate** (May 2020). Agri2day agricultural electronic journal.
 - ◆ **Amazon Forest between Survival and Devastation** (May 2020). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 124. <https://www.maan-ctr.org/magazine/article/2610/>
 - ◆ **Could the COVID- 19 Cause a Positive Decrease in Carbon Emissions?** (April 2020). Alfallah Alyoum, agricultural electronic journal.
 - ◆ **Climate Change and Land** (September 2019). Agri2day agricultural electronic journal.
 - ◆ **The Blue Economy a Pathway for Sustainable Development** (September 2019). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 118. <http://www.maan-ctr.org/magazine/article/2365/>
 - ◆ **The Blue Economy and Sustainable Development** (August 2019). Alfallah Alyoum, agricultural electronic journal.
 - ◆ **Circular Economy as a Tool to Tackle Climate Change** (July 2019). Alfallah Alyoum, agricultural electronic journal.
 - ◆ **Can Forest Plantation Reduce the Global Warming?** (July 2019). Alfallah Alyoum, Agricultural electronic journal.
 - ◆ **Global Market Expectations for Photovoltaic during the Period 2014-2018** (July 2019). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 116. <http://www.maan-ctr.org/magazine/article/2307/>
 - ◆ **The Global Assessment of Biodiversity and Ecosystem Services** (June 2019). Afaq Environmental Magazine, issued by MA'AN Development Centre. Vol. 115. <http://www.maan-ctr.org/magazine/article/2270/>
 - ◆ **Wind Farm and Solar Energy Technology in Egypt** (2015). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 70 (February) pp. 39- 40.

(ii) Agricultural Extension Proceeding Articles

- ◆ **Egyptian orange exports: Increase in quantity and decrease in value** (July 2024). Green future Platform.
- ◆ **Potato Exports and their Role in the Trade Balance** (May 2024). Green future Platform.
- ◆ **The impact of climate change on the access of mango exports to the global market** (April 2024). Alfallah Alyoum, agricultural electronic journal.
- ◆ **Corn Shortage and the Negative Impact on the Poultry Industry in Egypt.** LinkedIn, October 2022.
- ◆ **Land Restoration for Achieving Sustainable Development Goals.** (March 2022). Food Magazine, issued by AHDO Development Academy Vol. 7, pp. 13-14.
- ◆ **Climate Change Impacts on Food Security.** (December 2021). Food Magazine, issued by AHDO Development Academy Vol. 6, pp. 14-16.
- ◆ **Environmental and Social Impacts of Tobacco Production in Light of the Sustainable Development Goals** (September 2021). nok6a Scientific Journal.
- ◆ Assem A. A. Mohamed and Hassan M. Zedan. **Domestic Wheat Trade in Egypt** (August 2019). Alfallah Alyoum, Agricultural electronic journal.
- ◆ Assem A. A. Mohamed and Hassan M. Zedan. **Storage Capacity of Wheat Crop in Egypt** (July 2019). Alfallah Alyoum, agricultural electronic journal.
- ◆ **The Current Situation of the Global Production of Mushrooms** (March 2019). Afaq Environmental Magazine, issued by Ma'an Development Centre. Vol. 112. <http://www.maan-ctr.org/magazine/article/2149/>
- ◆ **Food Safety and Good Agricultural Practice** (2016). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 71 (May) pp. 25- 26.
- ◆ **Tomato Fruit Quality Standards** (2015). Shams Magazine, Vol. 169 (April), pp. 38- 41.
- ◆ **Effect of Quality Factors on Horticultural Crops** (2015). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 70 (January) pp. 20- 23.
- ◆ **Production and Economic Indicators for the Sugar Cane in Egypt** (2014). Egyptian Agric. Magazine, General Administration of Agrarian

- Culture, MALR, Vol. 69 (September) pp. 37- 40.
- ◆ **The Economics of Mushroom Production in Egypt** (2014). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 69 (July) pp. 34- 38.
 - ◆ **Economic Indicators of Sugar Beet {Part 2}** (2014). Shams Magazine, Vol. 160 (July), pp. 14- 15. <http://www.shamsmagazine.com/160/index.html#p=54>
 - ◆ **Economic Indicators of Sugar Beet {Part 1}** (2014). Shams Magazine, Vol. 159 (June), pp. 8- 9. <http://www.shamsmagazine.com/159/index.html#p=61>
 - ◆ **Food Security and Climate Change** (2014). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 69 (May) pp. 31- 34.
 - ◆ **Current Situation of Important Production and Economic Indicator of Egyptian Wheat** (2014). Q CAP E- Magazine, ARC, MALR. Vol. 1 (May) pp. 35- 45.
 - ◆ **Rise in Prices of Food Commodities to Where?** (2013). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 68 (August) pp. 30- 31.
 - ◆ **Recommendations for Reducing Losses in the Egyptian Wheat** (2013). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 68 (June) pp. 16- 18.
 - ◆ **Evolution of Consumption and Production of Wheat in Egypt** (2013). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 68 (May) pp. 36- 40.
 - ◆ **World and Local Production of Strawberry** (2013). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 68 (April) pp. 20- 23.
 - ◆ **The Impediments of Production, Marketing and Exporting of Egyptian Strawberry** (2013). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 68 (March) pp. 14- 17.
 - ◆ **Cost of Production per Acre of Potato Crop under Different Climatic Zones in Egypt** (2011). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 66 (March) pp. 19- 21.
 - ◆ **Cost of Production per Acre of Tomato Crop under Different Climatic Zones in Egypt** (2011). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 66 (Feb.) pp. 10- 15.
 - ◆ **Cost of Production Per Acre of Cucumber under Different Climatic**

Zones in Egypt (2011). Agriculture Research Center Magazine, Ministry of Agriculture and Land Reclamation (MALR).

- ◆ **Economic Losses of the Most Important Agricultural Crops in Egypt** (2010). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 65 (July) pp. 16- 20.
- ◆ **Economic Indicators of Some Vegetable Crops Production under Different Climatic Zones in Egypt** (2009). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 64 (Oct.) pp. 23- 27.
- ◆ **Economics of Some Vegetable Crops under Different Climatic Zones in Egypt** (2008). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR, Vol. 63 (October) pp. 11- 15.

(iii) Forthcoming Articles:-

- ◆ Conference of the Parties to the United Nations Framework Convention on Climate Change: Past, Present and Future.

(iv) Features / Interviews:-

- ◆ **The climate change surprises Egypt: Has it taken any realistic action to confront it?** (July 2024) Independent Arabia.
- ◆ **The agricultural decisions that paved the way for an Egyptian "sugar crisis"**(January 26, 2024). Levant Laboratories SAL-Raseef22. <https://raseef22.net/english/article/1096363-the-random-agricultural-decisions-that-led-to-egypts-sugar-crisis>
- ◆ **Nature gets angry in Egypt: dust storms, floods and thunder** (June 2023) Independent Arabia.
- ◆ **Fodder crisis threatens poultry farms. Governmental research stations start experimenting with unconventional fodders. Economists offer a prescription for treatment... Market surveillance and searching for alternatives, the most important solutions.** (November 28, 2022). Green future.
- ◆ **Ornamental and medicinal is in danger... Egyptian farmers are finding ideal ways to adapt their crops to climate changes.** (October 25, 2022). Al Dostor newspaper. <https://www.dostor.org/4212214>
- ◆ **Ornamental trees waste water... They grow olives and pomegranates in the streets.** (October 16, 2022). Levant Laboratories SAL-Raseef22.
- ◆ **The earth is thirsty.. water-saving crops are the solution.** (June 29,

2022). JNews (news, blog and magazine).

- ◆ **Fishermen are at Risk of Losing their Jobs" ... Climate Change and Fish Breeding Seasons in Egypt.** (June 22, 2022). Levant Laboratories SAL-Raseef22.
- ◆ **Aromatic Plants in Egypt are a Wealth that Challenges the Climate.** (June 5, 2022). Levant Laboratories SAL-Raseef22.
- ◆ **Street dogs... Does killing them disturb the ecosystem and biodiversity in Egypt?** November 30, 2021. Shorouk News.
<https://www.shorouknews.com/news/view.aspx?cdate=22112021&id=fba8a1bd-1dc2-4f1e-8db3-53afddf69d1>
- ◆ **Climate Change Adaptation in Agricultural and Natural Resource Management** (2015). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 70 (June) pp. 18- 19.
- ◆ **Biomass Gasification and its Application** (2015). Egyptian Agric. Magazine, General Administration of Agrarian Culture, MALR. Vol. 70 (July) pp. 26- 27.

PROFESSIONAL ACTIVITIES

Teaching Experiences

- ◆ December 2020, "**Economics of Climate Change and Impact Chain Analysis of Some Crops in Egypt**" under the workshop title "Impact of climate change on the field crops", organised by Climate Change Information Center, Renewable Energy & Expert system (CCICREES) and Crop Research Institute, Agricultural Research Centre, Giza Governorate, Egypt.
- ◆ May/ June 2019, **Cambridge IGCSE Environmental Management (0680) and O level (5014)**. For the "International General Certificate of Secondary Education Students.
- ◆ November 2019, "**Biodiversity, Climate Change and Economics of Adaptation**" under the workshop title "Climate change and agriculture", organised by Climate Change Information Center & Renewable Energy (CCICRE), Giza Governorate, Egypt.
- ◆ 2019, "**Economic Impacts of Climate Change on Agriculture Sector in Egypt**" under the course title "impact of climate change on the agriculture and possible solutions", organised by CLAC, ARC, Cairo, Egypt.
- ◆ 2019, "**Impacts of Climate Change on Biodiversity**". under the course title "impacts of climate change on the Egyptian agriculture sector", organised by Climate Change Information Center & Renewable Energy

(CCICRE), Giza, Egypt.

- ◆ 2014, "**Economics of Horticulture Crops under Protected Cultivation**", part of the cultivation and marketing of vegetables and Fruits under plastic greenhouses training program, Behera Governorate, Egypt.
- ◆ 2013, "**Climate Change Introduction and the Economic Effects on the Egyptian Agricultural Sector**", organised by CLAC, ARC, Egypt, under the project of "Regional Climate Change Database for Agriculture Sector in Egypt", funded by Science and Technology Development Fund (STDF).
- ◆ 2012- 2013, "**The Economic Benefits of Rice Straw Uses within Egyptian Conditions**", organised by CLAC, ARC, Egypt, under the project of "Climate Protection, Natural Resources Management and Soil Improvement by Combined Energetic and Material Utilization of Lignocellulosic Agricultural Wastes and residues".
- ◆ 2011- 2012, "**Economic Impacts of Climate Change on Global Crop Production**" under the course title "The Agriculture and Climate Change", organised by CLAC, ARC, in collaboration with (FAO).
- ◆ 2006- 2007, "**Economics of Roof Garden**" in Training Courses of "Roof Garden in Egypt", Held on CLAC, Cairo, Egypt.

Invited Research Seminars/ Presentations

- ◆ March 3rd 2024, "**Food Security and the Future of Food**". under the workshop titled "New horizons for agricultural development in light of current challenges", organised by CLAC, Egypt.
- ◆ October 26th, 2021, "**The link between agriculture and biodiversity, and the services nature provides to agriculture**" under the online workshop title "Biodiversity and ecosystem services" , organised by Association Africa 21, in partnership with UN environment and Swiss Agency for Development and Cooperation, Hurghada Governorate, Egypt
- ◆ August 2nd 2021, "**An Economic Production of Keitt Mango under Protected and Open Field Conditions**". Africa Food Manufacturing Conference, 2-4 August, Egypt International Exhibition Center, Cairo, Egypt.
- ◆ December 28th 2020, "**The Cost of Adaptation to Climate Change in Agricultural Sector**", organised by Climate Change Information Center, Renewable Energy & Expert System and Sakha Agricultural Research Station, Rice Research and Training Centre (RRTC), Field Crops Research Institute (FCRI), Agricultural Research Centre, Kafr ElSheikh

Governorate, Egypt.

- ◆ February 21st 2019, "**How Climate Change Affect Biodiversity?**". Climate Change Information Center & Renewable Energy (CCICRE), Giza Governorate, Egypt.
- ◆ November 26th 2018, "**IPBES Global Assessment of Biodiversity and Ecosystem Services**". Faculty of Agriculture, Fayoum University, Fayoum Governorate, Egypt.
- ◆ November 26th 2018, "**Climate Change Impact Chain Analysis for Key Crops**". Faculty of Agriculture, Fayoum University, Fayoum Governorate, Egypt.
- ◆ September 3rd 2018, "**Agriculture and Biodiversity**" part of national expert workshop on mainstreaming biodiversity into development sectors and preparing Egypt's vision to develop the post-2020 biodiversity framework. Ministry of Environment- Egyptian Environmental Affairs Agency (EEAA), Cairo, Egypt.
- ◆ September 18th 2017, "**Climate Change and Energy Transition in Egypt**", a presentation at Gansu Natural Energy Research Institute (GNERI)/ UNIDO International Solar Energy Center for Technology Promotion and Transfer (UNIDO- ISEC), Lanzhou, China.
- ◆ July 24th 2016, "**Climate Change and Low Carbon Development in Egypt**" at Academy of Macroeconomic Research (AMR)- National Development and Reform Commission (NDRC), Beijing, China.
- ◆ September 7th 2015, "**Environmental Monitoring Technologies in Egypt**", Center for Environmental Education and Communications, Ministry of Environmental Protection (MEP), Beijing, China.
- ◆ November 2014, "**Framework of Multilateral Environmental Agreements**" a presentation at CLAC, Egypt.
- ◆ 2014, "**Farm Management**", a presentation at Egyptian International Center for Agriculture (EICA), Ministry of Agricultural and Land Reclamation, Giza, Egypt.
- ◆ 2013, "**Clean Energy Development in Egypt**", a presentation at Gansu Natural Energy Research Institute (GNERI)/ UNIDO International Solar Energy Center for Technology Promotion and Transfer (UNIDO- ISEC), Lanzhou, China.
- ◆ 2013, "**Economics of Production and Marketing of Some Crops under Plastic Greenhouse**", a presentation at General Authority for Agrarian Reform, MALR, part of the cultivation and marketing of vegetables under

plastic greenhouses training program, Alexandria, Egypt, May 18- 23.

- ◆ 2012, "**Successful Skills Development System in Egypt**", a presentation at V.V. Giri National Labour Institute, Noida, Uttar Pradesh, India.
- ◆ 2011, "**Marketing and the Elements of the Marketing Mix**", a presentation at Egyptian Agricultural Organization, MALR, Giza, Egypt.
- ◆ 2011, "**Protected Cultivations in Egypt**", a presentation at International Exchange Center of Yangling Agriculture, Yangling province, China.
- ◆ 2009, "**Economic Benefits of Integrated Agricultural Systems**", a presentation at the non-traditional crops under extreme environmental conditions training program, Aswan Governorate, Egypt.
- ◆ 2008, "**Waste Water Treatments in Egypt**", a presentation at Hebei University of Science and Technology, Hebei province, China.

Editorial Activities:-

- ◆ Editor, quarterly leaflet and anomaly weather reports, CLAC, ARC, 2010-2012.

CONFERENCES, MEETINGS AND OTHER EVENTS

Conferences:-

- ◆ Africa Food Manufacturing Exhibition- Fi Africa Conference, Egypt International Exhibition Center, 29- 31 May, 2022, Cairo- Egypt.
- ◆ Africa Food Manufacturing Exhibition- Fi Africa Conference, Egypt International Exhibition Center, 2- 4 August, 2021, Cairo- Egypt.
- ◆ Online International Symposium on Scientific and Educational Cooperation of Young Scientists Along the Silk Road and the Development of Bio-health Agriculture holding by Northwest A&F University, Yangling, Shaanxi, China. 12- 15 May, 2021.
- ◆ 1st African Conference on Precision Agriculture, organised by the African Plant Nutrition Institute (APNI) in partnership with Mohammed VI Polytechnic University (UM6P) and the International Society of Precision Agriculture (ISPA). 8-10 December 2020.
- ◆ Africa Food Manufacturing Conference, Egypt International Exhibition Center, 7- 9 April, 2019, Cairo- Egypt.
- ◆ The 3rd International Conference of "Biotechnology and Environment" (ICBE), 5 - 7 September 2018, Alexandria- Egypt.
- ◆ The 2nd Lanzhou Science and High- Tech Achievements Expo, 17- 19 September 2017, Gansu Province, China.

- ◆ International Conference "Eco Forum Global Annual Conference Guiyang" State- level International Premium Forum, 8- 10 July 2016, Guiyang- Guizhou Province, China.
- ◆ International Conference on "Energy Efficiency and Energy Saving Technology: The Present and the Future", organised by International Center for Promotion of Enterprises (ICPE), and International Congress of Industrialists and Entrepreneurs (ICIE), 14- 15 November 2013, Ljubljana, Slovenia.
- ◆ 4th Annual Conference on Environmental Development "Risks and Solution", organised by Agricultural Chemistry and Environmental Protection Society (ACEPS), Ain Shams university, 20- 21 October 2010, Cairo, Egypt.
- ◆ 9th International Conference on Dry land Development, "Sustainable Development in the Dry Lands Meeting the Challenge of Global Climate Change", organised by International Dryland Development Commission (IDDC), 7- 10 November 2008, Alexandria, Egypt.

Meeting and other events:-

Meeting & Events	Role	Date
The 1st MedECC (Mediterranean Experts on Climate and Environmental Change) Assessment Report Lead Author Meeting, Milan, Italy	Lead Author Chapter 3	March 4-7, 2019
IPBES Global Assessment, Third Authors Meeting, Frankfurt, Germany	Fellow, Chapter 5	July 30- August 3, 2018
Plenary of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES-6), Medellín, Colombia	IPBES Expert	March 17- 24 , 2018
IPBES Global Assessment, Second Authors Meeting, Cape Town, South Africa	Fellow, Chapter 5	Sep. 18-22, 2017
IPBES Global Assessment, Chapter 5 Authors Meeting, Den Haag, Netherlands	Fellow, Chapter 5	Feb. 7-10, 2017
IPBES Global Assessment, First Authors Meeting, Bonn, Germany	Fellow, Chapter 5	Aug. 15-19, 2016

AWARDS AND

- ◆ Intergovernmental Science- Policy Platform on Biodiversity and

HONORS

Ecosystem Services (IPBES) fellowship pilot programme: to participate in the global assessment on biodiversity and ecosystem services 2014- 2019.

- ◆ Lead Author of the Mediterranean Experts on Climate and Environmental Change (MedECC) First Assessment Report (MAR1) 2018- 2020.
- ◆ The 2020 North-South Prize of the Council of Europe to the Network of Mediterranean Experts on Climate and Environmental Change (MedECC) of the Union for the Mediterranean. Lisbon, 9th December 2021.
- ◆ EuroNatur Award (2021) presented to the worldwide international community of scientists of IPBES.
- ◆ Ambassador of Island Innovation 2021& 2022, social enterprise and digital media platform at the intersection of sustainable development and communications, offering specialised services across various sectors. Island Innovations brings together the private sector, government, utilities, NGOs and universities to advance innovation for sustainability and prosperity in islands worldwide. Our mission is to **drive sustainable change across islands and rural areas around the world**. Whilst we do work on sustainable energy projects, this is not our only focus. We want to help island stakeholders share best practice and knowledge to help drive economic performance, ensure political stability and promote good governance. This improves the social and environmental conditions within remote and rural communities, in addition to creating a stronger and more cohesive global support network.

**PERSONAL SKILLS
AND
EXPERIENCES****Computer Skills and Experiences:-**

- ◆ Microsoft Windows 10, 8, 7, Vista, XP, 2000 and 1998
- ◆ Microsoft Office 2013, 2010, 2007, 2003, 2000 and 1997
- ◆ Internet Fundamentals
- ◆ Arc Map, Arc View GIS, QGIS
- ◆ CROPWAT 4.3
- ◆ The International Computer Driving Licence "ICDL " 2008.
- ◆ Introduction to Teradata Astra, April 2015.

Statistical Packages

- ◆ SAS, SPSS, MINITAB, TORA System, Win QSP, QSP
- ◆ LINDO (6.1), LINGO (13.0).

Language Competencies:-

- ◆ Mother Tongue(s):
 - Arabic (Fluent: Read Write Speak Understand)
- ◆ Other Language(s):
 - English (Excellent: Read Write Speak Understand)
 - French (Basic: Read Write Speak Understand)

PROFESSIONAL SKILLS TRAINING

Global Training Programs

- ◆ **Local Economic Development: Towards Local Agribusiness Cluster Development**, provided by Wageningen Centre of Development Innovation (WCIDI), Wageningen University & Research, the Netherlands. The course was held on 16 November – 14 December 2020 and part 2 on 4- 29 October 2021.
- ◆ **Potato Sector Development for Emerging Markets**, provided by Wageningen Centre of Development Innovation (WCIDI), Wageningen University & Research, the Netherlands. The course was held on 14 June- 15 July 2021.
- ◆ **Blue Biotechnologies, Aquatic products and Blue Bio-economy**. Jointly organised by BlueMed CSA and the BlueBio ERANET COFUND. The virtual advanced training course aims at contributing to the creation of ‘blue skills’, filling knowledge gaps while matching market opportunities via a joint effort among the scientific community, research infrastructures and business operators. CNR-IRBIM, Messina (Italy), held on line on 15- 19 March 2021.
- ◆ **Greenhouse Gas Assessment and Mitigation in Agriculture: Concepts, Methods and Simulation Tools**. Jointly organised by the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), through the Mediterranean Agronomic Institute of Zaragoza (IAMZ), the Global Research Alliance on Agricultural Greenhouse Gases (GRA), the Food and Agriculture Organization of the United Nations (FAO), the Red REMEDIA (Scientific network for greenhouse gas mitigation in the agroforestry sector). The course was held on 28 September to 8 October 2020, Zaragoza- Spain.
- ◆ Institute of Sustainable Irrigation and Water Management in Rural Areas, **Solar Powered Irrigation Systems (SPIS) E-learning Course**, held 18th June until 30th July 2019 on behalf of GIZ, Ostfalia University of Applied Science and Margraf publishers GmbH.
- ◆ **Greenhouse Gas Emission Reduction and Energy Transition**, funded

by the National Development and Reform Commission (NDRC), and organised by Gansu Natural Energy Research Institute (GNERI)/ UNIDO International Solar Energy Center for Technology Promotion and Transfer (UNIDO- ISEC), 6- 19 September 2017, Lanzhou, Gansu Province, China.

- ◆ **Agriculture Policy in Africa**, organised by United Nations African Institute for Economic Development and Planning (IDEP), July 24th, to August 4th, 2017, Senegal.
- ◆ **Water Sensitive Urban Design and Planning**, organised by the Center for Science and Environment (CSE), India and Water Research Commission (WRC), South Africa, 23- 26 January 2017, Cape Town, Republic of South Africa.
- ◆ **Climate Change and Green Low Carbon Development**, funded by the Academy of Macroeconomic Research (AMR)- National Development and Reform Commission (NDRC), 6- 26 July 2016, Beijing, China.
- ◆ **Environmental Monitoring Technologies**, funded by Center for Environmental Education and Communications, Ministry of Environmental Protection (MEP), 26th August to 15th September 2015, Beijing, China.
- ◆ **Climate Change Adaptation in Agriculture and Natural Resource Management**, funded by Center for Development Innovation (CDI), Wageningen UR and college of Agriculture and Environmental Science, Makerere University, held at Makerere University, 2- 13 February 2015, Kampala, Uganda.
- ◆ **Multilateral Environmental Agreement (MEAs), special theme "Environmental Security"** funded by United Nations Environmental Programme (UNEP), organised by (UNEP) & University of Eastern Finland Joensuu, 20- 30 October 2014, Joensuu, Finland.
- ◆ **Seasonal Forecasts for Agriculture in the Mediterranean**, funded by World Meteorological Organization (WMO), organised by the Institute of Biometeorology (IBIMET) belongs to the National Research Council (CNR), 22- 26 September 2014, Firenze, Italy.
- ◆ **Climate Change Impacts on Agricultural System in Africa**, funded by World Meteorological Organization (WMO), organised by the Institute of Biometeorology (IBIMET) belongs to the National Research Council (CNR), 9- 13 June 2014, Firenze, Italy.
- ◆ **Management and Usage of Agrifood Resources with the aim of Fostering Sustainable Agriculture and Forestry as well as Reduction**

of the Effects of Climate Change, organised within the framework of the Multi- disciplinary training programme science for DIPLOMAZIA of the Ministry of Foreign Affairs of Italy- General Directorate for Cooperation to Development and the National Research Council of Italy from 12nd May to 12nd November 2014 (for a total amount of 720 hours), Italy.

- ◆ **Sustainable Energy Solutions**, organised by UNIDO & the International Center for Promotion of Enterprises (ICPE), 11- 19 November 2013, Ljubljana, Slovenia.
- ◆ **Solar and Wind Energy Application for Arab Countries**, sponsored by the Ministry of Commerce, and organised by Gansu Natural Energy Research Institute (GNERI)/ UNIDO International Solar Energy Center for Technology Promotion and Transfer (UNIDO- ISEC), from September 10th, to November 4th, 2013, Lanzhou, Gansu Province, the People's Republic of China.
- ◆ **Skill Development and Employment Generation**, sponsored by Ministry of External Affairs, Government of India, under Indian Technical and Economic Cooperation (ITEC), conducted by V.V. Giri National Labour Institute, Held During January 09- 27, 2012, Noida, Uttar Pradesh, Republic of India.
- ◆ **Technology and Utilization of Biomass Gasification**, sponsored by Department of International Cooperation, Ministry of Science and Technology (MOST), organised by Liaoning Institute of Energy Resources, Held During September 1- 20, 2011, Yingkou, Liaoning Province, the People's Republic of China.
- ◆ **Agriculture Environment Controlling Technologies**, sponsored by the Ministry of Commerce, and organised by International Exchange Center of Yangling Agriculture Hi- tech Industries Demonstration Zone, from May 5th, to May 25th, 2011, Yangling, Shaanxi Province, the People's Republic of China.
- ◆ **Environmental Pollution Control Technology**, sponsored by the Ministry of Commerce, and organised by Hebei University of Science and Technology, from September 1st, 2008 to October 30th, 2008, Shijiazhuang, Hebei Province, the People's Republic of China.

E-Learning Programme

- ◆ **Strategies to End Plastic Pollution**. Provided by Centre for Science and Environment (India). 12- 16 December 2022.
- ◆ **Communicating on Locally Led Adaptation**. To train on how to communicate their efforts more clearly; develop clear messages for target

audiences; map a communication campaign; understand the use of digital marketing and multimedia tools. Provided by the Thomson Reuters Foundation (TRF) with the support of Global Hub on Locally-Led Adaptation of the Global Center on Adaptation, 3 August to 1 September 2022.

- ◆ **The My Sustainable Living Challenge (MSLC).** Provided by United Nations System Staff College (UNSSC) Knowledge Centre for Sustainable Development. 18 July- 28 August 2022.
- ◆ UN CC: Learn "**Climate Change: From Learning to Action**" The course helps in understanding what climate change is, how it affects you and others, and what can be done to address it. The course has been developed by the United Nations Environment Programme (UNEP) and the United Nations Institute for Training and Research (UNITAR), April 18, 2021.
- ◆ UN CC: Learn "**Climate Change International Legal Regime**" presents the causes and effects of climate change, describes the mechanisms established by the United Nations Framework Convention on Climate Change (UNFCCC) and explains the key provisions and commitments under the Kyoto Protocol and the Paris Agreement. The course has been developed by the United Nations Environment Programme (UNEP) and the United Nations Institute for Training and Research (UNITAR), April 18, 2021.
- ◆ **Circular Economy and the 2030 Agenda.** aimed at harnessing circular economy principles and systems-based approaches to explore ways in which we can redesign our systems, products and services to allow us to achieve a sustainable living for all, within planetary limits. Provided by United Nations System Staff College (UNSSC) Knowledge Centre for Sustainable Development. 2 November- 4 December 2020.
- ◆ **Extension Cambridge O Level Environmental Management (5014) 2019-2021 Syllabus:** course conducted by Cambridge Assessment International Education. The course was held on September 16 to October 4, 2020.
- ◆ **Agriculture, Economics and Nature,** provided by University of Western Australia. To discover agricultural economics and learn how to use economics for better decision making and efficiency in agriculture. The course was held on July 10 to August 21, 2020.
- ◆ **Understanding and Acting for a Healthy Plastic Free Mediterranean Sea- Building a Sustainable Blue Economy in the Basin.** Organised in the frame of the BlueMed Initiative, supported by the BlueMed CSA

project (GA 727453) funded by the European Commission. June- July 2020.

- ◆ **The Paris Agreement on Climate Change as a Development Agenda.** Provided by United Nations System Staff College (UNSSC) Knowledge Centre for Sustainable Development and the Secretariat of the United Nations Convention on Climate Change (UNFCCC). 15 June- 24 July 2020.
- ◆ **Farm Data Management, Sharing and Services for Agriculture Development.** Provided by the Food and Agricultural Organisation of the United Nations (FAO) and the Technical Centre for Agricultural and Rural Cooperation (CTA) together with the Pan African Farmers' Organisation (PAFO). The course was held on October 14 to November 10, 2019.
- ◆ UN CC: Learn "**Introductory E-Course on Climate Change & The Specialized Module on Climate Change and Cities**", United Nations Institute for Training and Research (UNITAR), December 29, 2015.
- ◆ UN CC: Learn "**Introductory E-Course on Climate Change**", United Nations Institute for Training and Research (UNITAR), December 24, 2015.
- ◆ E-Learning Course "**Estimating GHG Emissions and Carbon Sequestration in Agriculture, Forestry and Other Land Use with EX-ACT**", the World Bank Group, from 2- 13 November, 2015.
- ◆ E-course "**Sustainable Agricultural Land Management Projects: Soil Carbon Monitoring**" the World Bank Institute, from March 24 to April 11, 2014.
- ◆ Delivery e- Learning course "**Emissions Trading Schemes: Using Markets to Promote Low Emissions Development**" the World Bank Institute, from October 8, to November 5, 2013.
- ◆ E-course "**Carbon Monitoring of CDM Afforestation and Reforestation Projects**", the World Bank Institute, from 19- 30 August, 2013.
- ◆ E-Learning Program on Biopolis "**Sustainable Urban Development**", Biopolitics International Organisation (B.I.O.), Athens, Greece, from September 26, to December 9, 2011.
- ◆ E-Learning Program on Green Salaries "**Best Practices in Environmental Protection**", Biopolitics International Organisation (B.I.O.), Athens, Greece, from September 26, to December 9, 2011.

National Training Programme

- ◆ **"Entrepreneurial Development"**, conducted by DAAD Kairo Akadmie, 12- 13 June 2013, Cairo, Egypt.
- ◆ **"Project Management"**, conducted by DAAD Kairo Akadmie, 27 March 2013, Cairo, Egypt.
- ◆ **"Agriculture and Climate Change"** sponsored by FAO, and MALR, Egypt, organised by CLAC, from October 10th to October 14th, 2010, Cairo, Egypt.
- ◆ **"Agriculture and Climate Change"** sponsored by Arab Organisation for Agriculture Development (AOAD), and MALR, organised by CLAC, from November 16th to November 20th, 2008, Cairo, Egypt.
- ◆ **"Second Hortivar Training Workshop"**, sponsored by FAO, and organised by CLAC, 20th August 2007, Cairo, Egypt.
- ◆ **"Safe Utilization of Farm Wastes"**, organised by CLAC, Agricultural Research Center, from November 19th to November 24th, 2005, Behera Governorate, Egypt.
- ◆ **"Protected Cultivation"**, sponsored by the MALR, and organised by CLAC, from October 5th to October 31st, 2002, Cairo, Egypt.

**MEMBERSHIP,
OFFICES IN
PROFESSIONAL
ORGAINISATIONS**

- ◆ The International Society for Seed Science (ISSS).
- ◆ International Society for Development and Sustainability (ISDS).
- ◆ Egyptian Association for Small Farmer Protection.
- ◆ Agriculture Chemistry& Environ. Protection Society.
- ◆ Egyptian Association of Agricultural Economics.
- ◆ Egyptian Agriculture Professions Syndicate.