



## *Curriculum Vitae*

### **Personal Information:**

**Name:** Aya Ibrahim Mohamed Meligy Rabie

**Nationality:** Egyptian

**Permanent Address:** Melig - Shebin El Koom - Monoufia

**Date of Birth:** 07/05/1993

**Place of Birth:** Libya - Tripoli

**Current position:** Assistant Professor at Institute of National Planning - Salah Salem Street - Nasr City

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### **Qualification:**

- Ph.D. degree (pure mathematics) entitled "New techniques for solving some optimization problems" - Department of Mathematics - Faculty of Science - Ain Shams University - 2023.
- Master's degree (Pure Mathematics), entitled (Studies on Cordiality of the fourth Power of some graphs) - Department of Mathematics - Faculty of Science - University of Menoufia - 2020.
- Pre-Masters (Pure Mathematics) - Menoufia University-2018.  
Bachelor of Science (Pure Mathematics and Computer Science) - Menoufia University (excellent with honors degree) - May 2015.

## **Career Progression:**

- Assistant Professor at Institute of National Planning (INP) - from May 2023 until now.
- Director of the Technical office of INP's Vice president for training, consulting and community service, November 2019 until now.
- Teaching Assistant at Institute of National Planning (INP) - from May 2020 until April 2023.
- Demonstrator at the Institute of National Planning - from October 2016 until April 2020.
- Demonstrator at the Modern Academy of Engineering and Technology - from November 2015 to November 2016.
- Demonstrator at the Modern Academy of Computer Science and Management Technology in Maadi - from November 2015 to November 2016 (assignment).

## **Other experiences:**

- Participation in the consultancy study "Updating the National Decentralization Strategy and Reviewing the Local Administration Law with the Ministry of Local Development, Local Development Support Project funded by UNDP," from February 2025 to present.
- Participation in the consultancy study "Developing a Strategic Plan and Establishing a Quality, Monitoring, and Performance Evaluation System, Secretariat of the Supreme Council of Universities," from September 2024 to August 2025.
- Participation in the consultancy study "Advisory Services to Support the Implementation of the Local Development Program in Upper Egypt," Ministry of Local Development, 2025.
- A graduate of the first batch of the Applied Systems Analysis Diploma presented by the North African Center for Application of Systems Analytics is the result of cooperation between the Academy of Scientific Research and Technology and the Institute of National Planning in partnership with the International Institute for Applied Systems Analysis (IIASA) in Austria, June 2023.

- Member of the Organizing Committee for the International Conference of the Institute of National Planning in cooperation with the School of International and Public Affairs at Columbia University SIPA/Columbia "Governance and Sustainable Development" 3 and 4 June 2023 in Cairo.
- Assistant Editor-in-Chief of the Egyptian Journal of Development and Planning from 2021 until now.
- Member of the Executive Board of the Leaders Foundation for Administrative Sciences, 2023.
- A graduate of the first batch of the "Be an Ambassador for Sustainable Development" initiative launched by the Ministry of Planning and Economic Development (the National Institute for Governance and Sustainable Development, the training arm of the ministry) in cooperation with a number of universities and relevant ministries, 2022.
- A graduate of the first batch of the "Climate Ambassadors" program launched by the Ministry of Planning and Economic Development (the National Institute for Governance and Sustainable Development, the training arm of the ministry) 2022.
- Member of the Organizing Committee for the international conference of INP "Digital Economy and Sustainable Development Conference", 3-4 April 2021.
- Participation in the advisory study "A survey study to find out the elements of success of institutions that work in receiving and disbursing Zakat" in favor of the Iqra Waqf and the Egyptian Foundation for Zakat, January 2021 until now.
- Member of the steering committee of the Project to Deepen Local Industrialization in Egypt, Institute of National Planning, October 2020 until now.
- Member of the Organizing Committee for the international conference of INP "Energy and Sustainable Development Conference", 21-22 November 2020.
- Member of the Organizing Committee for the Fourth Edition of the Arab Development Report, "Small and Medium Enterprises in Arab Economies: A New Role for Promoting Sustainable Development in cooperation between the Institute of National Planning and the Arab Planning Institute in Kuwait", 2 December 2019.

- Member of the Organizing Committee for the international conference of INP "Promotion of Sustainable Agriculture", 20-21 April 2019
- Member of the Organizing Committee for launching the report "State of Development in Egypt" 11 April 2019.
- Member of the Organizing Committee for the role of academics, private sector and think tanks in the process of governance, Institute of National Planning, 8 April 2019.

### **Scientific Production (Research Papers):**

- Aya Rabie, et al (2025). Performance Assessment of Logistics Ports Using Order Theory: A Case Study of Egyptian Ports. *European Journal of Pure and Applied Mathematics*, 18(4), 7004-7004.
- Aya Ibrahim, et al (2025), Cordial Labelling of Corona Product of Paths and Fourth Order of Lemniscate Graphs, *European Journal of Pure and Applied Mathematics*, , 18(1), 5470-5470.
- Rabie, A. et al. (2024). An Overview of the Bi-Length Memory Effect in the Strictly Alternating Iterated Prisoners Dilemma Game. *Journal of Physics communication*, 8, 1-12.
- Aya Rabie. et al. (2024). Enhancing Egypt's Food System Resilience: A Case Study on Wheat System, *Egyptian Journal of Agricultural Economics*, October 2024.
- Azab, S., Rabie, A. E., Hafez, F., Mostafa, A. H., El Rayes, A. H., & Awad, M. M. (2023). Decent Life Initiative and Sustainable Development Goals: A Systems Thinking Approach. *Systems*, 11(9), 446.
- Elrayes, A., Badr, E., El Seidy, E., & Rabie, A., (2023). A Multi-Criteria Model for Sustainable Development Goals Using Fuzzy Goal Programming-Application for Egypt. *Information Sciences Letters*, 3, 1-13. (Accepted).
- Elrayes, A., El Seidy, E., Badr, E., & Rabie., (2022). Review Article: Game Theory with Neutrosophic Application. *Turkish Journal of Computer and Mathematics Education*, 13, 1068-1088.

- Badr, E., El Seidy, E., Elrayes, A., & Rabie, A.(2022). Analyzing the Application of the Sustainable Development Goals for Egypt Using a Neutrosophic Goal Programming Approach. *Process Integration and Optimization for Sustainability*,1-12.
- Badr, E., Elrayes, A., El Seidy, E., & Rabie, A. A Novel Hybrid Algorithm for Solving Fuzzy Linear Programming Problems with Generalized Trapezoidal Fuzzy Numbers. *Pakistan Journal of Statistics and Operation Research*. (Submitted).
- El Seidy, E., Elrayes, A., Badr, E., & Rabie, A. (2021). A Novel Artificial Variable-Free Simplex Algorithm for Solving Neutrosophic Linear Programming Problems. *Italian Journal of Pure and Applied Mathematics*, 46, 922–940.
- Rabie, A., el Seidy, E., Elrayes, A., & Badr, E. (2021). Dual Artificial Variable -Free Simplex Algorithm for Solving Neutrosophic Linear Programming Problems. *Neutrosophic Sets and Systems*, 46, 36-49.
- Elrokh. A, Rabie. A "The cordiality of the sum and union of two fourth power of paths and cycles." *Journal of the Egyptian Mathematical Society* 29, no. 1 (2021): 1-13.
- Elrokh. A, Rabie. A "The Signed Product Cordial of the Sum and Union of the Fourth Power of Paths with Cycles". *South Asian Research Journal of Engineering and Technology* 2 (2020): 10-16.
- Nada, S, Rabie. A et al. "Cordial labeling of corona product between paths and fourth power of paths." *Iranian Journal of Mathematical Sciences and Informatics* [accepted (2020)].
- Elrokh. A, Rabie. A (2020), "Cordial labeling of corona product between paths and fourth power of cycles." *Italian Journal of Pure and Applied Mathematics* [Accepted].
- Nada, S, Rabie. A et al. "The Signed Product Cordial for Corona of Paths and Fourth Power of Paths." *International Journal of Mathematical Combinatorics* 4 (2019): 102-111.
- Nada, S, Rabie. A et al. "Signed Product Cordial of the Sum and Union of Two Fourth Power of Paths and Cycles." *Journal of Machine Learning Research* 4.4 (2019): 45- 50.

- Nada, S, Rabie. A et al. "The Cordiality of the Sum and Union of the Fourth Power of Paths with Cycles." Journal of Mathematics and Statistical Science. [Accepted]. It was presented in 8th International Conference of Mathematics and Information Sciences, Cairo, Egypt, (8-10 Feb. 2019).
- Research Associate, (2019), "Anticipating the expected effects of some technological developments on development in Egypt and the alternatives to the policies of dealing with them" (applying to artificial intelligence and block chain) Series of Planning and Development, National Planning Institute, Cairo (In Arabic).
- Research Associate, (2018), "An Analytical Study of Egypt's Position in Inter-Arab Trade Using Network Analysis", Series of Planning and Development Issues No. 290, National Planning Institute, Cairo. (The search for the award of excellence in the National Planning Institute for the best collective research for the academic year (2018-2019)) (In Arabic).

### **Training courses:**

- Participation in the training program (Economic Reports Preparation And Analysis) during the period from (25-26/1/2023) - Arab Planning Institute in Kuwait.
- Participation in the training program (Economic Empowerment Policies and Programs) during the period from (3/3/2019) to (7/3/2019) - Arab Planning Institute in Kuwait.
- Participation in the training program (Combating the crimes of information technology between reality and application) during the period from (16/12/2018) to (17/12/2018) - Center for creativity and human development training.
- Participation in a workshop (Sustainable Development in Egypt: Mechanisms and Challenges of graduation and expected development effects) - National Planning Institute with the Association of graduates of Swedish universities in Egypt (2018).
- Participation in the International Computer Driving License (ICDL V5) during the period from (9/9/2018) to (8/10/2018) - National Planning Institute.
- Participation in the training program (Oral divorce in English) during the period (24/7/2018) until (19/8/2018) for 19 days - National Planning Institute.

- Participation in the training program (Modern teaching strategies) during the period from (24/6/2018) until (28/6/2018) - National Planning Institute.
- Participation in the training program (Leadership and management in development) during the period from (13/12/2017) to (17/11/2017) - Bangkok – Thailand.
- Participation in the training program (Presented in planning for development) during the period (2/5/2017) until (22/5/2017) for a period of (40) hours - National Planning Institute.
- Participation in the training program (Crisis and disaster management) during the period from (18/12/2016) to (22/12/2016) - National Planning Institute.

### **Personal Skills:**

- Working under pressure and ability to adapt to different working conditions and maintain good relations with presidents and subordinates.
- Ability to work with others collectively, and to deal and communicate with others with different cultures.

### **Programs and languages:**

- Matlab –Tora – Adobe Illustrator CS6 – LINGO- WinQSB - Microsoft Office.
- Arabic:           Mother tongue.
- English:           Writing, reading and speaking.

### **References:**

1. **Prof. Alaa Zahran** – Former President of Institute of National Planning.

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2. **Prof. Amani El Rayes** - Professor of Computer Science - Institute of National Planning Institute.

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3. **Prof. Essam EL- Seedy** - Professor of Pure Mathematics - Faculty of Science - Ain Shams University.

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