Curriculum Vitae

- **Name: Amira Abdelall Ibrahim**

- **Title: Arish-North of Sinai**

- **Department: Mathematics**

- **E-mail: amira.abdelall@su.edu.eg-** amera.1994369@gmail.com

A) Academic Qualifications:

1) - Bachelor's Degree in Mathematics, Al-Azhar University, 2016.

- Master's Degree in pure Mathematics, Al-Azhar University, 2021.

- Ph.D. in pure Mathematics, Al-Azhar University, 2024.

B) Academic promotions:

- Demonstrator,   Date 2018

- Assistant Lecturer,   Date 2021

- Lecturer,   Date:2024

C) Scientific Merit:

- Google Scholar

Citations: 75   h-index: 6   i10-index: 2

D) Scientific Activities

1: Conferences:

14-16 March 2023, 5th International Conference for Mathematics & Its Applications(ICMA23), Future University in Egypt (FUE).

Presented a paper titled 'On study the fractional Caputo-Fabrizio integro differential equation including the fractional q integral of the Riemann-Liouville type.'

2: **Teaching Scopes:**

- Statistics, Preparatory Engineering Level, October Higher Institute of Engineering & Technology (2018–2025).

- Mechanics, Preparatory Engineering Level, October Higher Institute of Engineering & Technology (2018–2025).

- Mathematics 1, Preparatory Engineering Level, October Higher Institute of Engineering & Technology (2018–2025).

- Mathematics 2, Preparatory Engineering Level, October Higher Institute of Engineering & Technology (2018–2025).

- Mathematics 3, First Year Specializations, October Higher Institute of Engineering & Technology (2018–2025).

- Mathematics 4, First Year Specializations, October Higher Institute of Engineering & Technology (2018–2025).

- Mathematics 5, Second Year Specializations, October Higher Institute of Engineering & Technology (2018–2025).
- Mathematics 1, First Semester, Faculty of Information Technology, Sinai University (2025-2026)
- Mathematics 2, First Semester, Faculty of Information Technology, Sinai University (2025-2026)
- Statistics, First Semester, Faculty of Information Technology, Sinai University (2025-2026)

3: Scientific supervision number:

- PhD Thesis: 1 student (Ongoing), Arish University, since 2025.

4: Awards and Certificates of Appreciation:

- Dr. Sawsan Al-Toukhi Award for the best scientific research for the year 2020, with an excellent grade.
- Dr. Sawsan El-Toukhi Annual Award for Academic Performance for a Faculty Member

5: Scientific Mission:

- To advance Information Technology education through innovative computational approaches and data-driven teaching methodologies, equipping students with cutting-edge digital skills essential for the Fourth Industrial Revolution and preparing future IT professionals to lead technological innovation and digital transformation.

E) Scientific Publications:

1) Amira A. Ibrahim, Afaf A. S. Zaghrout, K. R. Raslan, and Khalid K. Ali, On the analytical and numerical study for nonlinear Fredholm integro-differential equations, Appl. Math. Inf. Sci., 14, -921 929, (2020).

2) K. R. Raslan, K. K. Ali, R. G. Ahmed, H. K. Al-Jeaid, and A. A. Ibrahim, Study of nonlocal boundary value problem for the Fredholm–Volterra integro-differential equation, Hindawi Journal of Function Spaces, 2022, 16 pages, (2022).

3) Amira A. Ibrahim, Afaf A. S. Zaghrout, K. R. Raslan, and Khalid K. Ali, On the analytical and numerical study for fractional q-integrodifferential equations, Boundary Value Problems, 2022, 15 pages, (2022).

4) Amira A. Ibrahim, Afaf A. S. Zaghrout, K. R. Raslan, and Khalid K. Ali, On Study Nonlocal Integro Differential Equation Involving The Caputo-Fabrizio Fractional Derivative And q-Integral Of The Riemann Liouville Type, Appl. Math. Inf. Sci., 16 (6), 983-993, (2022).

5) K. R. Raslan, K. K. Ali, R. G. Ahmed, and A. A. Ibrahim, An Extended Analytical and Numerical Study the Nonlocal Boundary Value Problem for the Functional Integro-Differential Equation with the Different Conditions, Int. J. Appl. Comput. Math, 70, 32 pages, (2022).

6) Amira A. Ibrahim, Afaf A. S. Zaghrout, K. R. Raslan, and Khalid K. Ali, On study of the coupled system of nonlocal fractional q-integro-differential equations. International Journal of Modeling, Simulation,
and Scientific Computing, 14, 26 pages, (2023).

7) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, Mohamed S. Mohamed, On study the existence and uniqueness of the solution of the Caputo–Fabrizio coupled system of nonlocal fractional q-integro differential equations. Math. Meth. Appl. Sci. , 2023, 13226–13242, (2023).

8) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, and Dumitru Baleanu, The nonlocal coupled system of Caputo–Fabrizio fractional q-integro differential equation. Math. Meth. Appl. Sci. , 2023, 17 pages, (2023).

9) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, Mohamed S. Mohamed, On study the fractional Caputo-Fabrizio integro differential equation including the fractional q-integral of the Riemann-Liouville type. AIMS Mathematics, 8(8), 18206–18222, (2023).

10) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, M. A. Maaty, The existence and uniqueness of a fractional q-integro differential equation involving the Caputo-Fabrizio fractional derivative and the fractional q-integral of the Riemann Liouville type with q-nonlocal condition. J. Math. Computer Sci., 33, 176–188, (2024).

11) Zaki Mrzog Alaofi, K. R. Raslan, Amira A. Ibrahim, Khalid K. Ali, Comprehensive analysis on the existence and uniqueness of solutions for fractional q-integro-differential equations. Journal of Supercomputing, 1-19, (2024).

12) Shami A. M. Alsallami, K. R. Raslan, E. M. Khalil, S. Abdel-Khalek, Amira Abd-Elall Ibrahim, and Khalid K. Ali, Exploring the dynamics of fractional q-Integro-differential equations with infinite time delays: A study in mathematical analysis. Journal of Mathematics, 3381147, (2024).

13) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, and Mohamed S. Mohamed, Exploring the dynamics of coupled systems: fractional q-integro differential equations with infinite delay. Journal of Taibah University for Science, 18, 2375860, (2024).

14) Khalid K. Ali, K. R. Raslan, Amira A. Ibrahim, Mohamed S. Mohamed, Exploring the dynamics of nonlocal coupled systems of fractional q-integro-differential equations with infinite delay. Heliyon, 10, e33399, (2024).

15) Khalid K. Ali, K.R. Raslan, Reda Gamal Ahmed, Amira Abd-Elall Ibrahim, Shilpi Jain, Praveen Agarwal, Chapter 13 - On the nonlocal boundary value problem for the coupled system. Academic Press, (2024).

16) Khalid K. Ali, Mohamed S. Mohamed, Amira Abd-Elall Ibrahim, Farouk A. Emara , H. A. El Shenbary, Existence, uniqueness, and neural network approximation for non-local Riemann fractional q integro differential equations. International Journal of Computer Mathematics, (2025).

F) Quality Assurance in Higher Education:

- **QA Managing Positions:**

  Member of the Measurement and Evaluation Committee, October Higher Institute of Engineering & Technology (2018–2025).

G) Skills

- Language Skills:

- good in both verbal and non-verbal English communication.
- Very good command of both spoken and written English.

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- Computer Skills:
- MS office
- Good user of applications running at windows" 10&11"
- Scientific Writing [Latex].
- General IT Courses:
 (i) Internet Fundamentals.

 (ii) Programming Language [Wolfram Mathematica].