

PERSONAL INFORMATION

Mohamed Fekry Ismail Mohamed



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<https://scholar.google.com/citations?user=w1h0c84AAAAJ&hl=en>
<https://www.researchgate.net/profile/Mohamed-Ismail-161>

Date of birth: 25 May. 1994

Gender: Male

Nationality: Egyptian

PERSONAL STATEMENT

Assistant lecturer at Shorouk Academy with a strong passion for teaching and scientific research. Keen on Pursuing my career in scientific research and hope to develop the research process in my field of study.

WORK EXPERIENCE

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|---------------------------|---|
| 11 Aug. 2022–Present | Assistant Lecturer
Department of Mathematics Engineering of Physics, Higher Institute of Engineering, Shorouk Academy, Egypt |
| 23 Sept. 2019–11 Aug.2022 | Teaching Assistant
Department of Mathematics Engineering of Physics, Higher Institute of Engineering, Shorouk Academy, Egypt |
| 1 Oct. 2016–1 Apr. 2019 | Reserve Officer
Ministry of Defence Egyptian Army |
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EDUCATION AND TRAINING

Oct. 2022-Jun.2023

Advanced Courses.

Mathematics Department, Faculty of Science, Zagazig University, Zagazig, Egypt.

Attended courses:

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|-----------------------------------|-----------------------------------|
| 1- Theory of Thermo-elasticity | 2- Theoretical Mechanics |
| 3- Theory of Advanced Relativity | 4- Quantum Fields Theory |
| 5- Theoretical Nuclear Physics | 7- Selections of Theory of solids |
| 6- Partial Differential Equations | 8- Non-linear dynamical system |

Jun 2022–Aug. 2024

PhD in Applied Mathematic (Thermoelasticity) will be awarded in Aug. 2024

Mathematics Department, Faculty of Science, Zagazig University, Zagazig, Egypt.

Thesis Title: " Plane waves propagation in a thermo-microstretch poroelastic medium bordered by a fluid layer "

9 Dec. 2020– 20 Mar. 2022

MSc in Applied Mathematic (Thermoelasticity)

Mathematics Department, Faculty of Science, Zagazig University, Zagazig, Egypt.

Thesis Title: " Some Problems on a Thermoelastic Microelongated Medium with Different Fields"

Oct. 2019- Oct. 2020

Pre-master Courses.

Mathematics Department, Faculty of Science, Zagazig University,
Zagazig, Egypt.

Attended courses:

- | | |
|--------------------------|--------------------------|
| 1- Quantum Mechanics | 2- Theory of solids |
| 3- Fluid Mechanics | 4- Theory of Elasticity |
| 5- Theoretical Mechanics | 6- General Relativity |
| 7- Electro-dynamics | 8- Statistical Mechanics |

May. 2016

BSc in Mathematics.

BSc in Mathematics (Very Good)

Grade: 80.21%

GPA: 2.9 out of 4

List of publications

- 1- M. I. A. Othman, E. E. M. Eraki, S. Y. Atwa, **M. F. Ismail**, Electro-magnetic Field Effect on an Elastic Thermo-microstretch Porous Media Immersed in an Infinite Inviscid Liquid via Three-Phase Lag Model. *Journal of Vibration Engineering & Technologies* **12** (2024): 3755-3770.
- 2- M. I. A. Othman, E. E. M. Eraki, S. Y. Atwa, **M. F. Ismail**, A Model of Thermo-Microstretch Rotating Poroelastic Medium Immersed in an Infinite Inviscid Fluid with Memory-Dependent Derivative. *Journal of Engineering Mechanics*, **149(12)** (2023): 04023104.
- 3- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, Effect of initial stress on a microstretch thermoelastic medium immersed in an infinite inviscid fluid with two models. *Journal of Mechanics of Materials and Structures*, **18(4)** (2023): 533-549.
- 4- M. I. A. Othman, E. E. M. Eraki, **M. F. Ismail**, Study of

- micro-elongated thermoelastic medium loaded with a piezoelectric layer under the influence of gravity using the dual-phase-lag model. *International Journal of Mechanical System Dynamics*, **3(2)** (2023): 136-145.
- 5- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, Thermoelastic micro-stretch solid immersed in an infinite inviscid fluid and subject to gravity under three-phase-lag model. *Multidiscipline Modeling in Materials and Structures*, **19(1)** (2023): 21-37.
 - 6- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, The effect of rotation on thermoelastic microelongated medium under DPL model. *Applied Mathematics and Computation*, **7(1)** (2023): 1-14.
 - 7- M. I. A. Othman, E. E. M. Eraki, S. Y. Atwa, **M. F. Ismail**, Thermoelastic micro-stretch solid immersed in an infinite inviscid fluid and subject to a rotation under two theories. *Engineering Solid Mechanics*, **11(3)** (2023): 299-310.
 - 8- M. I. A. Othman, **M. F. Ismail**, The gravitational field effect on a micro-elongated thermoelastic layer under a fluid load with two theories. *Multidiscipline Modeling in Materials and Structures*, **18(5)** (2022): 757-771.
 - 9- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, Dual-phase-lag model on microelongated thermoelastic rotating medium. *Journal of Engineering and Thermal Sciences*, **2(1)** (2022): 13-26.
 - 10- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, A thermoelastic micro - elongated layer under the effect of gravity in the context of the dual - phase lag model. *ZAMM - Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, **101(12)** (2021): e202100109.
 - 11- M. I. A. Othman, S. Y. Atwa, E. E. M. Eraki, **M. F. Ismail**, The initial stress effect on a thermoelastic micro-elongated solid

under the dual-phase-lag model. *Applied Physics A*, **127** (2021): 1-8.

Training and Workshops

- 27 Sept. 2022–28 Sept. 2022 Interpersonal Skills, IBCT Faculty and Leaderships Development centre, Cairo University, Egypt

- 12 Sept. 2021–30 Sept. 2021 Fundamentals of digital transformation, IBCT Faculty and Leaderships Development centre, Zagazig University, Egypt

- 14 Sept. 2020-19 Sept. 2020 Scientific Writing and References Management by Endnote, (15hrs) IBCT Faculty and Leaderships Development, Zagazig University, Egypt.

- 21 Sept. 2020-26 Sept. 2020 International Publication of Scientific Research, (15 hrs) IBCT Faculty and Leaderships Development centre, Zagazig University, Egypt

- 25 Aug. 2020-28 Aug. 2020 Databases and References Management Using Endnote and Plagiarism: Types and How to Avoid, (12 hrs) IBCT Faculty and Leaderships Development centre, Zagazig University, Egypt

- 3 Feb. 2020-4 Feb. 2020 Effective Teaching Skills, IBCT Faculty and Leaderships Development centre, Cairo University, Egypt

PERSONAL SKILLS

Mother tongue(s) Arabic

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

English

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2

Communication skills

Good communication skills gained through my experience as a researcher in a scientific institution, my works with my supervisors, colleagues, and students.

Job-related skills

- I am teaching various courses to the undergraduate students, such as Ordinary Differential Equations, Partial Differential Equations, Calculus (Differentiation, Integration, and Multi-Variables integration), Mechanics (Statics and Dynamics), Statistics, and Algebra.
- Advanced Research Abilities
- Interactive and fast enough to learn new technologies and sciences in a short time.
- Self-Motivated and ability to work in a group or individually according to the job

Other skills

Computer skills

1. Mat Lap
 2. Latex
 3. Fundamentals pythson
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Scientific participation

- I attended the Scientific Environmental Conference in Faculty of Science, Zagazig University, Egypt.