

Abdelrahman Ahmed Elsayed Abuelanin

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Professional Summary

"Experienced and dedicated Teaching Assistant with over 8 years of university-level instruction in Physics and Mathematics across multiple universities. Developed a strong foundation in both theoretical and applied physics while adapting to diverse academic environments. Passionate about fostering an engaging and supportive learning experience, leveraging extensive expertise to effectively guide students and contribute meaningfully to academic programs."

Education

2013 – 2017	Faculty of Science, Alexandria University, BSc. in Physics and Mathematics • Overall grade: CGPA 3.35 from 4 (grade: 84 %) Very Good grade. • Graduation Project: Theoretical Particle Physics (Excellent grade).
2018 – 2022	Faculty of Science, Alexandria University, MSc. in Physics Thesis: Evaluation of the dielectric response of some semiconductors in the vicinity of insulator - metal transition. Under the supervision of : • Prof . Dr. Sayed Abboudy • Prof . Dr. Khaled Alfaramawi • Ass. Prof . Dr. Laila Abulnasr

Professional Experience

2018 – 2020	Physics and Mathematics T.A at Pharos University at Faculty of Engineering. Responsibilities: Tutoring & Lab supervision
2017 – 2018	Physics T.A at Arab Academy for Science, Technology & Maritime Transport at Faculty of Engineering. Responsibilities: Lab supervision
2020 – 2022	Physics T.A at Arab Academy for Science, Technology & Maritime Transport at Basic Science department. Responsibilities: Tutoring & Lab supervision
2023 – 2024	Physics T.A at Faculty of Science, Alexandria University. Responsibilities: Tutoring & Lab supervision
2023 – present	Physics T.A at Alamein International University (AIU) at Faculty of Engineerin . Responsibilities: Tutoring & Lab supervision

2023 – present

Physics T.A at Alamein International University (AIU) at Faculty of Science.
Responsibilities: Tutoring & Lab supervision

2023 – present

Physics and Mathematics T.A at Higher Institute of Engineering and Technology, King Marriott.
Responsibilities: Tutoring & Lab supervision

Research Publications (Under Investigation)

- Influence of the Donor Concentration and Temperature on the Dielectric Response of Some Compound Semiconductors in the Vicinity of Insulator-Metal Transition: Direct Calculations and Comparison.
- Dielectric Response-Dependent Electron Mobility and Conductivity in the Vicinity of Insulator-Metal Transition of Some Semiconductors.

Courses

- **Engineering Physics (I):** Electromagnetism and Optics (Lab supervisor and Tutorial).
- **Engineering Physics (II):** Thermodynamics and Waves (Lab supervisor and Tutorial).
- **Engineering Physics (III):** Special Relativity and Quantum Physics (Lab supervisor and Tutorial).
- **Physics (I) (For Faculty of Computer Science):** Mechanics, Waves, Electricity, and Magnetism (Lab supervisor and Tutorial).
- **Advanced Physics (For Faculty of Computer Science):** Thermodynamics, Modern Physics, and Optics (Lab supervisor and Tutorial).
- **Physics (I)(For Faculty of Science):** Mechanics, Thermodynamics (Lab supervisor and Tutorial).
- **Physics (II) (For Faculty of Science):** Electromagnetism and Optics (Lab supervisor and Tutorial).
- **Engineering Mathematics (I):** Calculus.
- **Engineering Mathematics (II):** Integration and Matrices.
- **Linear Algebra.**
- **Mathematics (For Faculty of Pharmacy).**
- **Engineering Mechanics (I):** Statics.
- **Engineering Mechanics (II):** Dynamics.

Skills

- Advanced Skills in Microsoft Office Applications
- Experienced MATLAB User
- Statistical Analysis Using SPSS
- Origin
- Physics Research Expertise
- Analytical Problem Solving in Mathematics
- Interpersonal Communication Skills
- Experienced with Presentation Tools

Academic Activities

- Quality Committee Member: Basic Sciences Department at Pharos University and Higher Institute of Engineering and Technology - King Marriott.
- Examination Committee Member (Control): Communication Department at Higher Institute of Engineering and Technology - King Marriott.

Public Lectures and Talks

- "Gravity and Graviton", **British University in Egypt (BUE)**, 2016.
- "Introduction to Theoretical Particle Physics", **Faculty of Science, Alexandria University**, 2016.
- "Your Way to Elementary Particles", **Faculty of Science, Port Said University**, 2017
- "Origin of Universe and Particle Physics", **The Jesuit Cultural Centre**, 2018.
- "Dielectric response of some semiconductors", **Faculty of Science, Alexandria University**, 2022.

Scientific Activities

- Studied general physics in **Robo Nile Industries course** in 2014 (20 credit hours).
- Participated at the **6th Egyptian School of High Energy Physics**, British University in Egypt (BUE) which was organized by the Centre for Theoretical Physics (CTP) at BUE, 2016.
- Participated in the **3rd. student Conference for Graduation Projects**, Faculty of Science, Port Said University, 2017 (Participated in my research project in theoretical particle physics).
- Participated at the **2nd CFP Zewail City Mini-School** on experimental tools in particle physics, 2017.
- Participated at **2nd Postgraduates Conference**, Faculty of Science, Alexandria University, 2022 (Participated by my thesis in Dielectric response of some semiconductors in the vicinity of insulator-metal transition).
- Participated at the **3rd International Conference for Future Studies and Risk Management (ICFSRM 2022)**, Arab Academy for Science, Technology & Maritime Transport, 2022.