

Ayman Attia

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EDUCATION

Purdue University, West Lafayette
Doctor of Philosophy (PhD), Physics
CGPA: 4.00/4.00

Indiana, USA
Aug. 2024 - Present

University of Science and Technology, Zewail City
Bachelor of Science (B.Sc.), Physics with an Information Engineering Minor
CGPA: 3.99/4.00

Giza, Egypt
Aug. 2020 - Jul. 2024

- Class of 2024 valedictorian and the recipient of Dr. Ahmed Zewail trophy.
- Recipient of full-ride merit scholarship.
- My graduation thesis was on Conformal Bootstrap.

EXPERIENCE

Graduate Research Assistant
Purdue University, West Lafayette

May. 2026 - Present
Indiana, USA

Graduate Teaching Assistant
Purdue University, West Lafayette

Aug. 2024 - May. 2026
Indiana, USA

- TA-ed Modern Physics (PHYS 340) and Modern Mechanics (PHYS 172) laboratories, and General Physics (PHYS 221) recitation and laboratory on electricity, light, and modern physics.

Physics Junior Teaching Assistant
University of Science and Technology, Zewail City

Oct. 2021 - Apr. 2022
Giza, Egypt

- Assisted the instruction of the Introduction to Classical Mechanics (PHYS 102) and Introduction to Modern Astrophysics (PEU 205) courses through giving recitations.

Back-End Developer
BeauteKSA - Remotely

Aug. 2022 - Sept. 2023
Riyadh, Saudi Arabia

- Maintained the back-end architecture for a suite of 5 software products; identified and resolved performance bottlenecks to bring down API response times from minutes to few seconds.

Back-End Developer
Insureship - Remotely

Aug. 2023 - Feb. 2024
Los Angeles, California, United States

CONFERENCES & WORKSHOPS

Long Range Interactions in Quantum Systems Workshop in *Les Houches, France*

Feb. 2026

- Attended lectures and seminars on long-range interactions in magnetic and rydberg atoms, polar molecules, ions, and solid-state.

1st ArPS Summer School on Advanced Physics by *Arab Physical Society*

Aug. 2023 - Sep. 2023

- Attended lectures and seminars on QFT, General Relativity, Analytical Mechanics, and Statistical Mechanics.

Quantum Computing Workshop with IBM by *Qubit by Qubit*

Sept. 2022 - Apr. 2023

3rd Summer School and Internship Programme at CTP by *The British University in Egypt*

Jul. 2023 - Aug. 2023

- Attended lectures and seminars on QFT, Cosmology, Machine Learning in High Energy Physics, and Quantum Computation.

Alexandria Quantum Computing Winter School by *AleQCC*

Feb. 2021

COMPUTATIONAL EXPERTISE

I am familiar with *Python, C++, C, PHP, JavaScript, SQL, data structures & algorithm analysis, and Linux OS administration.*