

Ahmed Khalifa

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EDUCATION

University of Kentucky	Lexington, KY, USA
PhD Student in Theoretical Physics	Aug 2025 – Present

Zewail City of Science and Technology	Giza, Egypt
Graduate Coursework in Theoretical Physics	2023 – 2024

- Cumulative GPA: 3.83 / 4.0

Zagazig University, Faculty of Science	Zagazig, Egypt
Bachelor of Science in Physics	2019 – 2023

- Cumulative GPA: 4.1 / 5.0 (Excellent with Honor)

HONORS AND AWARDS

Outstanding Teaching Assistant Award	2026
University of Kentucky	KY, USA

EXPERIENCE

Physics Teaching Assistant	August 2025 – Present
University of Kentucky	KY, USA

Physics and Mathematics Teaching Assistant	October 2023 – May 2025
Zewail City of Science and Technology	Cairo, Egypt

Research Assistant at the Center of Fundamental Physics (CFP)	October 2023 – May 2025
Zewail City of Science and Technology	Cairo, Egypt

RESEARCH PAPERS

- A. Khalifa, ‘Investigation of Lorentz Invariance Violation in Drell-Yan Processes at the LHC’, 2024. [CDS Record](#).
 - This research, conducted as part of a project at CERN, supervised by Dr. David Walter and Dr. Kenneth Long.
- A. Abokhalil, ‘The Higgs Mechanism and Higgs Boson: Unveiling the Symmetry of the Universe’, [arXiv \[hep-ph\]](#), 2023.
 - The graduation project focused on the Higgs mechanism and its role in particle physics. Supervised by Dr. Alaa Abd El-Hady.

SUMMER SCHOOLS AND WORKSHOPS

Prospects in Theoretical Physics (PiTP)

Princeton, NJ

Institute for Advanced Study (IAS)

July, 2026

CERN Summer Student Intern

June 2024 – August 2024

European Organization for Nuclear Research (CERN)

Meyrin, Switzerland

- [Employment Attestation](#)

SKILLS

🔗 Python · Mathematica · MadGraph5 · CalcHEP · SPheno · LaTeX

🗣️ English (IELTS: 7.5) · Arabic (Native Speaker)