

Mahmoud Khaled

Teaching Assistant

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Personal information

Date of birth: 22 Dec. 1997

Citizenship: Egyptian

Status: Celibate

Education

Sep.2023 - Jul.2024 **M.Sc.(Pursuing)**, *University of Cape Town, AIMS*, Cape Town, South Africa
(Fully Funded Scholarship)

Sep.2022 - May 2023 **Pre M.Sc.**, *Helwan University*, Helwan

2016 - 2020 **Bachelor of Science in Mathematics**, *Helwan University*, Helwan

Total GPA =3.3/4. Graduated with "very Good" (82.47%).

Graduation \ Final year project: **Interval Analysis.**

Teaching and Mentoring Experience

Oct. 2022 - Aug.2023 **Teaching Assistant**, *El-Gazeera Higher Institute for Engineering and Technology*, Cairo.

Sep. 2020 - Now **Freelance Mathematics lecturer**, *Online teaching.*

Sep. 2020 - Apr. 2021 **Teaching Assistant**, *Mathematics Dep., Faculty of Science, Helwan University*, Helwan.

Seminars & Schools

25-27 Oct. 2023 *Spring School "On Symmetries of Differential & Difference Equations and Their Applications"*, Stellenbosch, South Africa

31 Aug. 2023 *Quadratic Forms, Rings and Codes*, Laboratoire de Mathématiques de Lens, France

24-28 Jul. 2023 *Five days faculty development program on 'Data Analysis using Advanced Computational techniques'*, Department of Statistics and Department of Mathematics, Amity University Kolkata, North India

27-28 Jan. 2023 *Categories, Rings and Modules, a conference in honor of Alberto Facchini*, Online

10-21 Dec. 2022 *Rings, Algebras, and Category Towards Coding and Computer Algebras*, CIMPA school, Helwan University

24 Jul. 2019 *Topology and its Applications*, Helwan University.

Puplication & Posters

Mar. 2024 Presented a research poster on 'Mathematical Modelling and Game Strategy for Quoridor' at Siyakhula event. Developed and implemented advanced game strategy algorithms in collaboration with international experts, showcasing proficiency in problem-solving and computational skills.

Awards & Achievements

- Apr. 2024 [I have been selected as a student member of the European Mathematical Society.](#)
- Apr. 2024 [Awarded a fully-funded internship at HGS MathComp, Heidelberg University, Germany. Conducted a 5-week research project in mathematical modelling and game strategy implementation for the board game Quoridor.](#)
- Oct. 2023 [Mastercard Foundation Scholar at AIMS: Empowering Africa's Future through Education, Leadership, and Community Impact - Cape Town, South Africa](#)
- Aug. 2023 [Accepted to study Master's degree at University of Cape Town - Cape Town, South Africa](#)
- Jun. 2023 [Selected for a fully fund scholarship to study Master's degree at University of Cape Town - Cape Town, South Africa](#)
- Jun. 2023 [Accepted to study Master 2 Indifférencié Modélisation et Méthodes Mathématiques en Economie et Finance. at Université Paris 1 Panthéon-Sorbonne - Paris, France](#)
- May. 2023 [Selected for the first stage in a fully fund scholarship from the French embassy in Egypt](#)
- May. 2023 [Selected for a fully fund scholarship to study Master's degree at Università della Calabria - Calabria, Italy](#)
- Apr. 2023 [Accepted to study Master 2 MPA at Université Côte d'Azur - Nice, France](#)
- Dec. 2020 [Seventh Place in the Ideal Student Competition at Helwan University.](#)
- Dec. 2020 [Ideal Student Certificate, Faculty of Science.](#)

Skills: \LaTeX , C++, [Python](#), R software, Microsoft Office, GeoGebra, plotly, Canva, Emaze,

Languages: Arabic(native), English (near-native), French (Basic).

Volunteer & Social works

- Mar. 2024 [As a Mastercard Foundation Scholar, actively participated in community service initiatives, dedicating hours to social work and volunteering efforts. Engaged in educational tutoring at Muizenberg High and contributed to significant events like Siyakhula and the CIMPA Algebra Winter School, demonstrating a commitment to educational support and community development.](#)
- Mar. 2024 [Volunteered at Siyakhula, an event by AIMS, to boost Africa's mathematical sciences. Coordinated international workshops, talks, and showcases, fostering global scientific collaboration.](#)
- Dec. 2022 [Participated as a volunteer at the CIMPA Algebra Winter School, facilitating academic exchanges and supporting the organization of workshops focused on advancing algebraic knowledge and research collaboration among international scholars.](#)

References

Dr Karin-Therese Howell

e-mail: howell@aims.ac.za

Academic Director, African Institute for Mathematical Science, South Africa.

Prof. Susan Eldeken

e-mail: Sfdeken@science.helwan.edu.eg

Mathematics Department, Helwan University, Cairo, Egypt.