Fatema Elgebali

M.Sc. IN MACHINE LEARNING STUDENT

Cairo, Egypt

노 (+20) 01118929627 | 🖂 fatema.elgebali@aims-cameroon.org | 🖸 fatemamelg | 😾 fatemamelg | in fatemamelgebali

Education _____

Stellenbosch University	Stellenbosch, South Africa
MSc. in Machine Learning & Artificial Intelligence	Jan. 2023 - Dec. 2023
Full time structured master's program.DeepMind Scholarship recipient.	
The African Institute for Mathematical Sciences in Cameroon (AIMS Cameroon)	Limbe, Cameroon
MSc. in Mathematical Sciences (Major: Data science)	Sep. 2021 - June 2022
 Essay title: "General Oracle Operator for Non-Boolean Amplitude Amplification." Supervisor: Dr Wolfgang Scherer. 	
Cairo University	Giza, Egypt
BSc. in Mathematics and Computer Science	Sep. 2016 - May 2021

Experience _____

Stellenbosch University

TEACHING / ASSESSMENT ASSISTANT / DEMI

- Helping the students taking Probability Theory and Statistics (PTS 114) during the tutorials.
- Assisting in the marking of tutorial tests or quizzes and uploading of marks.

Egyptian Space Agency (EgSA)

SUMMER INTERN

- Attending lectures online on satellites' structure and subsystems.
- Learning about statistical models and using the ARIMA model to predict anomalies in satellites using historical satellite telemetry time series data from Laboratory for Atmospheric and Space Physics (LASP).

Skills _____

Language Skills	 Arabic (mother-tongue). English (Full professional proficiency). French (Elementary proficiency).
Programming Languages	 Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Qiskit) R, SQL, Java, JavaScript, C++, SageMath.
Typesetting Languages	LaTeX.Markdown.
Frameworks	React.Angular.

Research Interests _____

QUANTUM COMPUTING, QUANTUM INFORMATION, MACHINE LEARNING, QUANTUM MACHINE LEARNING, FUNCTIONAL Analysis, Data Science, Theoretical Computer Science. Stellenbosch, South Africa Feb. 2023 - June, 2023

> Cairo, Egypt Aug. 2020 - Sep. 2020

Summer and Winter Schools _____

Qiskit Global Summer School 2021: Quantum Machine Learning

• A two-week intensive course focused on Quantum Machine Learning. This second-annual course, made up of twenty lectures, five applied lab exercises, hands-on mentorship, and live Q&A sessions, focuses on developing hands-on experience and understanding of quantum machine learning.

The Coding Schools's Qubit by Qubit Introduction to Quantum Computing Course with IBM Quantum 2020-2021

• A year-long quantum course including weekly lectures and labs in quantum mechanics, quantum computation, and quantum algorithms.

Space Weather Monitoring Center Summer School, Helwan University

• Attended the 7th Space Weather Summer School (Solar Physics) held at the Regional Training Center in Cairo during the period from 27/8/2018 to 6/9/2018. Explore the variations of the sunspot's Magnetic field using SVM and Matlab.

Extracurricular Activities

Our Lady of Lourdes School

Volunteer Math Tutor

- Fulfillment for a mandatory give back activity at AIMS Cameroon.
- Tutoring mathematics for ordinary level GCE (Cameroon General Certificate of Education).

TEDxCairoUniversity

Web developer

• Contributed to developing TEDxCairoUniversity's website.

Limbe, Cameroon Feb. 2022 - Mar. 2022

Giza, Egypt Sep. 2017 - Feb. 2018

Online 12 July 2021 - 23 July 2021

Online

Regional Training Center, Cairo

Aug. 2018 - Sept. 2018

Oct. 2020 - May 2021