Maurice Constantin Matar

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EDUCATION

Ecole Polytechnique — Palaiseau, France
Bachelor of Science in Mathematics and Physics — 2022 - 2025
- Recipient of the excellence scholarship of *CMA CGM* and a scholarship from the *Fondation de l'X*.

Lycée Alphonse de Lamartine — Kfarkahel, Lebanon
French Baccalaureate — 2007 - 2022
- Specialisation in Mathematics and Physics-Chemistry.
- Graduated with highest honors *"félicitations du jury"*.

EXPERIENCE

CMA CGM — *Beirut, Lebanon*
Data Analyst Intern — Jul 2024
- Researched ways to aggregate directional data by diving into the world of directional statistics
- Worked on improving an existing email classification system by tuning the parameters of different machine learning models and by comparing their effectiveness to other models
- Lead a conference where I presented the SINDy algorithm, explained the role of the STLSQ algorithm within its framework and implemented it in some basic applications

Laboratoire Leprince-Ringuet — Palaiseau, France
Research Intern — Feb 2024 - Jun 2024
- Attempted to uncover the unknown origins of Fast Radio Bursts (FRBs) by investigating the feasability of the Magnetar Giant Flare model
- Conducted data analysis on Swift-BAT data retrieved from NASA's HEASARC archive

PROJECTS

Classical Electrodynamics Final Project; Group work; — Feb 2024 - Jun 2024
Electrostatic Simulation Of A Touchscreen Device
- Conducted a simulation of the interaction between a capacitive touch screen and a human finger in 2-D by solving numerically the Laplace equation with given boundary conditions
- **Keywords:** capacitive touchscreen, capacitance matrix, relaxation method

C++ Final Project; Group work; — Sep 2023 - Jan 2024
Timeless Journeys - Video Game Developement
- Participated in the coding of an RPG video game
- Contributed by coding in game items and attempted to optimize elements of the UI
- **Keywords:** Object oriented programming, teamwork, Github

HONORS AND AWARDS

- Finalist of the Bachelor of Science's annual *Speech Contest*
- Selected as one of my school's representatives to the *Concours Général* in Mathematics and Physics-Chemistry
- First place in *Charles Baudelaire Poetry Competition* that was organized by the *Institut Français de Tripoli*. The poem got published in a special edition of *l'Orient Littéraire* (1st of April, 2021)
- Champion of the *North Lebanon Under 18 Tennis 2019 Championship*

EXTRACURRICULAR ACTIVITIES

- Active piano player with 8 years of practice
- Founder and current president of BX-Lebanon, a cultural committee within my university
- A big sport enthusiast with 6 years of Resistance Training experience, particularly fond of Tennis, Football and Fencing.

SKILLS

- **Languages:** Arabic (native), Russian (native), English (fluent), French (fluent), Spanish (intermediate), Ukrainian (intermediate)
- **Computer skills:** C++, Python, MS Office, LaTeX
- **Soft skills:** leadership, communication, teamwork, organization, management, public speaking, self-development through engaging in challenging situations, readiness for hard work