

Maurice Constantin Matar

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EDUCATION

Ecole Polytechnique

Bachelor of Science in Mathematics and Physics

Palaiseau, France

2022 - 2025

- Recipient of the excellence scholarship of CMA CGM and a scholarship from the *Fondation de l'X*.

Lycée Alphonse de Lamartine

French Baccalaureate

Kfarkahel, Lebanon

2007 - 2022

- Specialisation in Mathematics and Physics-Chemistry.
- Graduated with highest honors "*félicitations du jury*".

EXPERIENCE

CMA CGM

Data Analyst Intern

Beirut, Lebanon

Jul 2024

- Researched ways to aggregate directional data by diving into the world of directional statistics.
- Worked on email classification by tuning the parameters of different machine learning models and by comparing their effectiveness to other models.
- Led a conference by presenting the SINDy algorithm, explained the role of the STLSQ algorithm within its framework and implemented it in some basic applications.

Laboratoire Leprince-Ringuet

Research Intern

Palaiseau, France

Feb 2024 - Jun 2024

- Attempted to uncover the unknown origins of Fast Radio Bursts (FRBs) by investigating the feasibility of the Magnetar Giant Flare model. This was done by trying to find X-ray counterparts to a particular FRB.
- Conducted data analysis on Swift-BAT data retrieved from NASA's HEASARC archive, then proceeded by finding the constraint in the source emission by computing the luminosity upper bound.

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 a representative of the school to participate in 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.
- A big sport enthusiast with 6 years of Resistance Training experience, particularly fond of Tennis, Football, Swimming 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