

Daniel Dia

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EDUCATION

Lycée Franco-Libanais Verdun (LFLV), Beirut, Lebanon

Sep 2010 –
(Expected Jun 2025)

French Baccalaureate. GPA: 11th grade: **18.32/20.00** | 12th grade: **18.90/20.00**

- Specialties: Mathematics; Physics & Chemistry; Humanities, Literature, & Philosophy (only in 11th grade).
- Options: Advanced Mathematics (12th grade), Theater (12th grade), Creation and Technological Innovation (10th grade).

Experience

Saint Joseph University of Beirut (USJ), Beirut, Lebanon

6 – 8 Jun 2023

Mathematics Intern

- Explored undergraduate mathematics through course observation (analysis, statistics, algebra, topology, foundations).
- Investigated applications of mathematics in diverse fields, including acoustics, mathematical physics, actuarial science, and data analysis with professors and PhD students.
- Gained insight into actuarial research by learning about mortality table analysis, ruin theory, pandemic modeling, and risk prevention.
- Introduced to Python programming and relevant tools for numerical computation.

Lebanese American University (LAU), Beirut, Lebanon

30 Oct – 2 Nov 2023

Chemistry Intern (Shadowing)

- Shadowed undergraduate students within Dr. Nathalie Hayeck's research group, working on the development of an analytical technique to extract toxicants from the aerosols of electronic cigarettes.
- Introduced to the research work developed within the research group of Dr. Nathalie Hayeck, Dr. Elias Akoury and Dr. Ali Yassin.
- Attended various chemistry lectures, i.e., chemical principles, organic chemistry, and physical chemistry.

Extracurricular activities and volunteering

LAUSM Model European Union Conference 2023, Beirut, Lebanon

Presidency Award

Oct 2022 – May 2023

- Collaborated and negotiated with fellow delegates to achieve consensus on complex policy proposals within the European Union's political and legislative framework.
- Awarded the Presidency Award in the 7th LAU Model European Union Annual High School Conference 2023 for "**excellence in representation, distinguished performance, and an outstanding position paper.**"

Calisph'Air High School Conference 2023, Beirut, Lebanon

Head of Data Collection, Data Analysis and Web Design

Oct 2023 – May 2024

- Contributed to the development and implementation of solutions for improving air quality, in collaboration with USJ's Faculty of Sciences and the Mission Laïque Française (MLF).
- Collaborated with team members to achieve project goals and effectively communicate complex ideas (e.g. through a Wordpress website).
- Performed data analysis using Python and presented findings to raise awareness about environmental issues within the school and local community.
- Presented research findings to researchers at the French National Center for Space Studies (CNES) and at USJ's science fair ("Foire des Sciences").

Wikipedia, The Free Encyclopedia

Contributor (Volunteer)

Dec 2023 – present

- Created and expanded articles over 110 times, e.g. contributing 12,635 characters to William Lawvere's, 26,694 characters to Chizh & Co's, and 2,785 characters to Lisa Piccirillo's pages.
- Improved content on diverse topics, resulting in over 1,100,000 views on edited articles and 64 personal thanks by users on the platform.
- Led discussions on various Wikipedia talk pages (e.g. Chizh & Co) to achieve consensus on disputed content, demonstrating leadership and collaboration.
- **Contributed to a free, global resource, giving back by making knowledge accessible to all.**

Humanitarian Aid Volunteer, Beirut, Lebanon

Civilian Volunteer

Sep 2024 – Nov 2024

- Provided direct aid to individuals displaced by the 2024 Israel-Lebanon conflict, distributing essential goods as part of a team working long shifts in challenging conditions, amounting to over **20 hours of labor**.
- Sorted and loaded thousands of kilograms of supplies to ensure efficient distribution to those in need.
- Transitioned to **online support** when on-site volunteering became unsafe due to nearby Israeli strikes.
- Leveraged social media and personal funds to source and provide over **85 essential medications**, valued at **\$500**, to individuals affected by the conflict, with a focus on those with heart disease and diabetes.

Hobbies: reading, guitar, tutoring (free), cinema, coding, volunteering, video games, tinkering with GNU/Linux.

Skills

Languages: French (native), Russian (native), English (advanced), Arabic (fluent: reading, listening & writing), Spanish (intermediate), Mandarin (beginner).

Computer skills: Microsoft Office, GNU/Linux, Python (Seaborn, NumPy, SciPy, Pandas, scikit-learn, Jupyter notebooks), Rust, Machine Learning (Python), git, GitHub, Bash, MATLAB, Technical Documentation, Data Structures & Algorithms, Large Language Models (LLMs).

Certifications & Courses:

- AUB: **EECE230X** (Introduction to Computation and Programming), **MATH219** (Honor's Linear Algebra I), **CMPS211** (Discrete Mathematics, 2 week shadowing), **PHIL223** (Philosophy of Language).
- The Linux Foundation: *Introduction to Linux* (LFS101), *A Beginner's Guide to Open Source Software Development* (LFD102), *A Beginner's Guide to Linux Kernel Development* (LFS103), *Ethics for Open Source Development* (LFC104), *Open Source Technical Documentation Essentials* (LFC111), *Software Engineering Basics for Embedded Systems* (LFD116), *Developing Secure Software* (LFD121), *Introduction to Kubernetes* (LFS158).
- Others: **"Maths en Jeans" High School Mathematics Research Conference 2022-2023, 2023-2024, and 2024-2025 (AUB)**, *Modern Standard Arabic Course* (B1, CREA at USJ), *Mandarin Chinese 1A4 Course* (Confucius Institute at USJ), *MATLAB Onramp Course* (MathWorks), *IBM Z Day 2024 Conference* (AI & Data).