

Aloïs Coquillard

French student at École Normale Supérieure de Lyon, M1 in physics

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CURRICULUM VITAE

EDUCATION

Master's in Physics (SdM) at ENS de Lyon 2024 - present

- **First year of the Physics Master's program (M1 SdM)**
- **Bachelor's internship (L3)** at the Jean Lamour Institute (Nancy):
Characterization of instabilities in a two-species cold plasma (helium-argon)
- **Bachelor's degree in Physics (L3 SdM)** with additional mathematics courses
(*algebra, topology and differential calculus, analysis, continuous probabilities*)

Preparatory Classes for the Grandes Écoles in Nancy 2021 - 2024

PCSI with physics-chemistry option (2021–2022), PC* 3/2-5/2 (2022–2024)
Admitted to ENS de Lyon via competitive entrance exam

General Secondary Education at Lycée H. Poincaré, Nancy 2018–2021

French Baccalauréat (General Track with Maths and Physics) with High Honors,
with special TMD track (music specialization) in 10th grade (seconde) and computer
science option in 11th grade (Première)

WORK EXPERIENCE

Volunteer Tutor – ENSeigner Association 2024 – present
Volunteer tutoring sessions for local high school students.

IT Technician (Freelance) 2017 – present
Local computer and electronics troubleshooting. Self-taught in systems administration, Linux, networking, home automation, virtualization, containerization, and orchestration (Kubernetes). Maintains personal IT infrastructure for nearly 10 years.

EXTRACURRICULAR

Astronomy club of ENS de Lyon 2024–present
Co-founder and co-president, instrumentation and IT coordinator

Computer science association of ENS de Lyon 2024–present
Board member, Electronics club manager

Certificate of Musical Studies (CEM), Piano Major 2011–2021
Regional Conservatory of Nancy, with Merit (Bien)

Achievements include: DEM in Musical Analysis (High Distinction), CEM in Music Theory and Chamber Music (High Distinction unanimously awarded), Violin AEM, Music History CEM (High Distinction), and introduction to Orchestral Conducting.

OLYMPIADS AND COMPETITIONS

French Physicists Tournament ongoing	<i>M1 ENS - 2026</i>
International Chemistry Olympiad 25th nationally	<i>PCSI - 2022</i>
International Chemistry Olympiad 114th nationally	<i>12th grade - 2021</i>
National Chemistry Olympiad 9th regionally	<i>12th grade - 2021</i>
National Mathematics Olympiad 1st Academic Prize	<i>11th grade - 2020</i>
European Physics Olympiad Regional Selection	<i>11th grade - 2020</i>
Rotary Club Public Speaking Contest 4th regionally	<i>10th grade - 2019</i>
Alkindi Cryptography Contest 275 points in written round	<i>10th grade - 2019</i>
MATh.en.JEANS Contest Solved an open problem	<i>9th grade - 2018</i>
CGénial Contest Student jury academic prize	<i>8th grade - 2017</i>

Languages

French (mother tongue)

English (C2)

German (B1)

Computer Skills

Python

SQL

Linux & Networking

LaTeX

Hobbies

Electronics

Piano

Mechanics – Engines

Career Interests

Research in astrophysics, mathematical physics, plasma physics, quantum physics, statistical physics, or education.

Other Interests

Electronics (vintage & modern), chemistry, astronomy, musicology, cycling, 19th–20th century history and geopolitics, philosophy.