

Education

- 2023 – 2025 **Chemistry & Life Sciences track of the Master's degree of Chemistry**
École normale supérieure, Chimie ParisTech, ESPCI Paris, PSL University
Courses taken : Chemical biology for probing life and discovering drugs, Electrochemical methods, Electrochemistry and energy, Bioinorganic chemistry, Organometallic chemistry, Inorganic materials, Artificial intelligence for chemistry, Soft matter, Asymmetric synthesis, New activation methods in organic synthesis, Inorganic spectroscopies, History of chemistry.
- 2022 – 2023 **ENS diploma 1st year - Bachelor of Chemistry level**
École normale supérieure - PSL, Paris
Courses taken : Quantum chemistry, Orbital chemistry, Organic chemistry, Electrochemistry, Thermodynamics, Inorganic chemistry, Chemical kinetics and reactivity, Spectroscopy, Solid state chemistry.
Other courses taken : Introduction to life sciences, Molecular biology and genetics, Philosophy and economics of the environment, Economics for scientists, Biogeochemistry, Hydrodynamics, Biomass and green chemistry, Arabic, Theatrical practice
- 2019 – 2022 **Preparatory Classes for "Grandes Écoles"** ("Grandes Écoles" are the best ranked scientific schools in France)
Lycée Jacques Decour, Paris
Physics, Chemistry, Mathematics, Computer Science, Philosophy & English classes
- 2019 **Scientific Baccalaureate with Highest Honours**
- 2011 – 2019 **Specialized Music and Academic Program (CHAM)**
Lycée Racine & Conservatoire à Rayonnement Régional de Paris

Experiences

- 2025 **Research internship (6 months)**
Università degli studi di Bari Aldo Moro, Bari, Italy
Development of advanced microbial photoelectrodes. Under the supervision of Matteo Grattieri. Learned skills : microbial cell culture and growth optimization, preparation of biocompatible polymers, fabrication and electrochemical characterization of microbial photoelectrodes.
- 2024 **Research internship (6 months)**
McCalla Lab, McGill University, Montreal
Design of cathodes for Na-ion batteries. Under the supervision of Eric McCalla. Learned skills : sol-gel synthesis, X-ray diffraction, glovebox manipulation, high-throughput methods, coin cell preparation.
- 2023 – 2024 **Research internship (6 months, 2 days/week)**
Institute of Porous Materials (IMAP), Paris
Mimicking biological channels by using solid state nanopores. Under the supervision of Mathilde Lepoitevin. Learned skills : use of nanoelectrophysiology equipment, membrane design, SEM.
- 2023 **French Society for Chemistry Award for Practical Internship in Electrochemistry**
- 2023 **Research internship (6 weeks)**
Laboratoire PASTEUR - Unit of physical and biological chemistry of living matter, Paris
Electrochemiluminescence & microfluidic combination for imaging permeabilization of giant liposomes. Under the supervision of Olivier Buriez. Learned skills : microfluidic chip design, microelectrode design.
- 2023 **Participation in the French Chemists Tournament** Ranked 4th
École polytechnique, Paris
Perfume design with evolving fragrance profile. Learned skills : NMR, gas chromatography, synthesis under inert atmosphere.

Skills & Interests

Languages : French (native), English (fluent), German (advanced), Italian (beginner), Arabic (beginner)

Computer : Python, L^AT_EX, Git, Linux, HTML, Inkscape

Hobbies : Film photography, tap dancing, rock climbing, cycling and bikepacking, hiking.

Member of Joe Melki's theater troupe since 2022 :

- *Le soleil continuera de se lever* - 4 performances at Nicole Loraux Theater in March 2023 (leading role) ;
- *FRAICHE : Fresque révolutionnaire anti-inflation, corruption, humiliations (et explosions)* - 4 performances at Nicole Loraux Theater in December 2023.

Projectionist at the École normale supérieure's Film Society since 2022.

Participated in the Specialized Music and Academic Program (CHAM), combining advanced musical training (instrumental, choir, music theory) with academics ; performed internationally at festivals and with prestigious orchestras, and studied computer music and music history.

List of referees : Olivier Buriez, Mathilde Lepoitevin, Eric McCalla.