Summary & Motivation

Master 2 student at the University of Strasbourg and engineering student at Télécom Physique Strasbourg, I am very interested in Atomic, Molecular, and Optical Physics, in particular in ultracold atoms & quantum gases.

I have recently been working as an intern in the Quantum Fluids group of the University of Heidelberg, where the group leader, Prof is building an experiment aiming at studying low-dimensional dipolar quantum gases for the investigation of few- and many-body phenomena and exotic quantum phases of matter like supersolidity.

Education

2022 - 2023 **University of Strasbourg** - Master's degree, Condensed Matter and Nanophysics (MCN).

Double degree with the generalist engineer diploma of Télécom Physique Strasbourg.

Curriculum :

- Core curriculum : Advanced Quantum Mechanics, Nonequilibrium Statistical Physics and Transport Processes, Radiation-Matter Interaction
- Elective courses : Quantum Many-Body Physics, Open Quantum Systems, Magnetism and Magnetic Nanostructures, Computational Physics

Overall average : 12.9/20.

2022 - 2023 **EFEQT** - European Master Certificate in Quantum Science and Technology.

Complementary research and innovation training programme for students performing Master studies at a European University.
Participation to the Quantum Ideas Factory event, Heidelberg, October 2022.

Curriculum :

- Introduction to Quantum Science and Technology, University of Heidelberg

Grade : 14.5/20.

2020 - 2023 **Télécom Physique Strasbourg** - Generalist engineer diploma, Department of Physics.

Curriculum :

- Fundamental physics : Quantum physics, Atomic physics, Statistical physics, Electromagnetism, Solid State physics
- Applied physics : Semiconductor physics, Nanoscience, Experimental physics
- Photonics : Laser physics, Wave and Geometrical optics, Optoelectronics
- Engineering : Programming, Signal processing, Control theory, Electronics

Overall average of past semester : 13.83/20.

2018 - 2020 **Lycée Joffre, Montpellier** - CPGE MP

Two-years intensive undergraduate courses in physics and mathematics.

Preparation for the highly competitive entrance exams to the top French engineering schools.

Final grade : A.

2015 - 2018 **Lycée Ozanam, Mâcon** - Scientific baccalauréat

Speciality mathematics, with distinction and summa cum laude.

Overall average : 18.21/20.

Self-Education

Collège de France, Online courses
Studying in my spare time lectures of Prof. Jean Dalibard at the chair "Atomes et rayonnement" of Collège de France.

Work Experience

Quantum Fluids group, Physikalisches Institut February - July 2023, Heidelberg, Germany

Internship, 5 months

Supervisor : *Prof. Dr. Lauriane Chomaz*

– Contribution to a quantum gas experiment in the Dysprosium Lab.

– Working on an accordion lattice set-up for the study of low-dimensional dipolar quantum gases.

Title of dissertation : *Characterisation of an accordion lattice setup for low-dimensional dipolar quantum gases experiments*

CSEM Basel, Research & Technology Organization June - August 2022, Basel, Switzerland

Internship, 3 months

Supervisors : *Ton Offermans, Guillaume Basset*

– Automatization of a step and repeat micro-nano-optics UV imprinting machine.

– Working in a cleanroom and learning about photolithography processes for micro-nano optics.

Title of dissertation : *Automatization of a step and repeat micro-nano optics UV imprinting machine*

Skills

Languages	French (native language), English (fluent, TOEIC 880), Spanish (basics).
Programming & Simulating	MATLAB, Python, C, C++, LabVIEW, COMSOL Multiphysics, SOLIDWORKS, CODE V, LightTools.
Graphic design	Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Final Cut Pro, LaTeX.

Interests

Culture	Music (Pink Floyd, Radiohead, Daft Punk), Cinema (Nolan, Tarantino, Coen brothers), Cultural programmes (Etienne Klein, France Culture, Arte).
Sport	Cycling, Hiking, Japanese martial arts.