

Alban LABORDE-LAULHÉ

Engineering Student at Chimie
ParisTech – PSL



PROFILE SUMMARY

Second-year engineering student at **Chimie ParisTech – PSL** with a strong foundation in experimental science, data analysis, and scientific computing. Research experience in crystal growth and materials characterisation (IRCP-PSL). Active in PSL university life as President of the PSL Student Union and Treasurer of PSL Broadway.

CONTACT

@ alban.laborde-laulhe@etu.chimieparistech.psl.eu
+33 6 33 18 68 27
alban.laulhe.io
Paris, France

SKILLS

- Experimental: wet chemistry, crystal growth, sample preparation, powder XRD, optical microscopy
- Computational: Python (NumPy, Pandas, Matplotlib), basic image analysis, C/C++, Git, \LaTeX
- Communication: scientific writing, project management, public speaking

LANGUAGES

English: **fluent** French: **native**
Spanish: **proficient**

EDUCATION

CHIMIE PARISTECH – PSL UNIVERSITY Paris, France 2023–2026

◇ Generalist curriculum in chemistry, physics, materials science, and scientific computing. Engineering degree expected in 2027.

◇ Selected coursework: Quantum and Electronic Properties of Materials, Solid-State Chemistry, Surface Science, Data Analysis, Experimental Methods.

CLASSES PRÉPARATOIRES (PSI*/PCSI), LYCÉE GUSTAVE EIFFEL Bordeaux, France 2021–2023

◇ Mathematics, physics, and engineering sciences. Prepared national competitive entrance exams.

FRENCH BACCALAURÉATE (HONOURS), EUROPEAN SECTION (SPANISH) Dax, France 2021

RESEARCH EXPERIENCE

UPCOMING: RESEARCH INTERN – UNIVERSITY OF GLASGOW Glasgow, UK Apr–Aug 2026

◇ Optics Group of Prof. Sonja Franke-Arnold. Magneto-optical effects in rubidium vapour with structured light.

RESEARCH INTERNSHIP – IRCP - MPOE (PSL UNIVERSITY) Paris, France Sep–Dec 2024

◇ Crystal growth and characterization of Yttrium Gallium Garnets (YGG). Studied flux composition ($\text{BaO-B}_2\text{O}_3\text{-BaF}_2$), morphology control, and optical quality.

◇ Maintained a detailed lab notebook; performed powder XRD; wrote small Python scripts to plot growth curves and analyse optical images.

GROUP SCIENTIFIC PROJECT (PIG) – CHIMIE PARISTECH (PSL) Paris, France 2025–2026

◇ MOF Composites for Enhanced CO_2 Capture in Humid Conditions (IMAP – ENS, G. Mouchaham). Developed hydrophobic MOF composites to preserve CO_2 sorption performance under humidity.

◇ Benchmarked porosity retention and water uptake through comparative isotherms.

TRANSDISCIPLINARY PROJECT (PTD) – CHIMIE PARISTECH (PSL) Paris, France 2024–2025

◇ Innovation Project with Procter & Gamble: Applied Design Thinking for innovation challenges; led team workflow and user research; produced a final concept brief.

INDUSTRY EXPERIENCE

WORKER INTERNSHIP – REWAKE Montreuil, France Aug 2024

◇ Hands-on operational internship at a circular lab-equipment startup. Managed reception, testing, cleaning, and calibration of reused laboratory devices.

LEADERSHIP & ASSOCIATIONS

PRESIDENT – PSL STUDENT UNION (UNION PSL) Paris, France 2025–2026

◇ Led PSL-wide student representation, coordinated inter-school events, managed team and finances; liaised with administration and partners.

TREASURER – PSL BROADWAY Paris, France 2024–2026

◇ Managed annual budget, sponsorships, and logistics for student musical productions; coordinated with stage management and ticketing.