



ALEXANDRE CHERRIER

PHD STUDENT IN LASER INDUCED PLASMA OPTICAL EMISSION SPECTROSCOPY (LIBS)

DIPLOMAS

Engineering diploma "Ingénierie Physique pour la Photonique et la Microélectronique" (PHELMA)

Master "Photonique et Semiconducteurs (UGA)

Bachelor - "Sciences de l'Ingénieur" (Grenoble INP)

LANGUAGES

French - Mother tongue

English - C2

Spanish - B1

CODING

Python, MATLAB, Julia

SCIENTIFIC COMMUNICATION

Organization of the 2025 edition of the annual student conference "LIGHT S&T" at the University of Bordeaux. The conference brought together researchers and PhD students from academia and industry to present various applications of photonics, including materials science, plasma physics, and biology.

CONTACT

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RESEARCH EXPERIENCE



Université de Bordeaux/ ICMCB

[Oct 2024 - Currently] - Bordeaux, France
PhD Thesis : "Surface enhanced LIBS : Theoretical and experimental study of the laser-surface and laser-plasma interactions on micro/nano-structured materials" under the supervision of Prof. Bruno Bousquet (UB/ICMCB).

Main interests : Laser/matter interactions, Spectroscopy, Surface processing



Thales Research & Technology

[Feb.2024-Aug 2024] - Palaiseau, France
End of studies internship. Simulation and experimental characterization of photonic integrated circuits (couplers, amplifiers, ring resonators, ...) for frequency modulated continuous wave LIDARs. Optimization of the signal processing techniques to enable detection of signals from multiple directions.



Imperial College London

[Oct.2022-May 2023] - London, U.K
"Urbach Tails' impact on Solar Cells"
Computational research project on the impact of crystallographic structure deformations on the electronic density of states in materials for solar cells.

EDUCATION



Grenoble-INP Phelma

[2021-2024] - Grenoble, France

Engineering curriculum, with specialization in photonics

Sections :

1st year : Physics & Instrumentation

2nd year : Exchange student at ICL

3rd year : Physical engineering for photonics & microelectronics

Diploma obtained with highest honours



Imperial College London

[2022-2023] - London, U.K

Exchange year in the Physics department of Imperial College London.

Modules : Lasers, Plasma Physics, Non Linear Optics, Quantum Mechanics, Optical Communications, Solid State Physics



CPGE Lycée Pothier

[2019-2021] - Orléans, France

Nation-wide exam preparation for engineering school entry.

Section : MPSI - PSI*