



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*