# HUGUET ALEXANDRE MASTER 2 NANOTECHNOLOGIES & NANOMATERIALS

# CONDENSED MATTER AND NANOSTRUCTURES

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Born the : 23/06/1999



# ACADEMIC BACKGROUND

- Double diploma Master, Nanosciences and Nanotechnologies at Rennes University, 2021-2022, and Adam Mickiewicz University, 2022-2023
- Bachelor of fundamental physics at Rennes University, 2018–2021
- First year of medical school, pharmacology major, 2017-2018

INTERNSHIPS AND PROFESSIONNAL EXPERIENCES	
MARCH-AUGUST 2023	MASTER THESIS IN SPIN TRANSPORTS  - Study by numerical methods (Python, Feynman diagrams) of spin transport in a Single Electron Transistor coupled to a topological superconductor aiming for quantum memories.  - Supervised by professor Ireneusz Weymann, at the Institute of Spintronics and Quantum information of Poland
MAY-JUNE 2022	INTERNSHIP IN X RAY DIFFRACTION ON A CRISTAL  -Study of phase transitions in an organic crystal, the dichlorodurene, by X-ray diffraction.  - Supervised by the Pr. Philippe Rabiller in the Matériaux et Lumière department of Rennes
MAY-JUNE 2021	BACHELOR THESIS IN THIN FILMS CHARACTERIZATION BY XPS  - Preparation and characterization of Perovskyte/TiO2 characterization by XPS  - Supervised by Soraya Ababou-Girard at the <i>Institut de Physique de Rennes</i> in the <i>département Matériaux nanosciences</i> in partnership with the <i>ISCR</i> , aiming the development of solar cells.
2013	PROFESSIONAL INTERNSHIPS  - in a workshop of metallurgy and welding, Bizeul Workshop  - as a computer technician apprentice, Sarzeau  - in production of aluminium doors and windows, Bel'm
2013-2020	VOLUNTEER FIREFIGHTER, SPE. FOREST WILDFIRES  - Multiple missions in a military setting: first aid, traffic accidents, wildland and urban interface fires, childbirth, etc  - Young Firefighter apprentice from 2013 to 2016
2021-2022 2020 2019 2017-2018	SUMMER JOBS  - Food processing factory AtelierV, production of hummus  - Food processing factory Délices de St Léonardt  - Removal man for déménageurs bretons, package sorting for FEDEX  - Food processing factory Procanar, cold storage environment

### RELATED SKILLS

- English B2
- Polish LV1 2022-2023
- Japanese LV2 2020-2021
- Spanish LV2 2011-2017
- Python
- Microcontrollers & C++
- Experimental methods for thin films

### SOFTWARES

- Overleaf
- Arduino IDE
- Presents XPS
- WSxM
- CryAlisPro
- Jana2006
- DL\_POLY
- Mercury CST Studio **MATLAB**
- Linux systems

## REFERENCES

Soraya Ababou-Girard, soraya.ababou@univ-rennes1.fr M1 Physics Coordinator, IPR

Pascal Turban, pascal.turbaneuniv-rennes1.fr Nanosciences Coordinator, IPR

Jacek Kubicki, jacek.kubicki@amu.edu.pl MaMaSELF Coordinator, AMU