Clément Pellet-Mary

2015-2017	License, ENS Cachan, PHYTEM (general physics).
2017–2018	Agregation (teaching diploma) , <i>ENS Cachan</i> . 11th national rank
2018-2019	Master, ENS, Paris, ICFP (quantum physics).
	PhD , <i>LPENS</i> , ENS Paris, Advisor Gabriel Hétet. Dipolar interaction with dense ensemble of NV centers
	Lab internship
2016	License 3 internship , <i>Frédéric Grosshans</i> , LAC, Orsay. 5 week internship on relativistic cryptography
2017	Master 1 internship, Sara Bonella, CECAM, Lausanne. 16 week internship in quantum chemistry on the use of semi-classical approach to solve complex quantum dynamics
2019	Master 2 internship, Gabriel Hétet, LPENS, Paris. 12 week internship on quantum optics experiments with ensemble of crystalline defects
	Teaching
2019-2021	Calculus 201 (tutorials), License 2, Sorbonne Université.
2019-2020	Electromagnetism (practicals), License 2, Sorbonne Université.
2020-2021	Lagrangian mechanics (tutorials), License 2, Sorbonne Université.
	Publications
	First author
2021	Physical Review B 104.10 (2021) . Magnetic torque enhanced by tunable dipolar interactions
2021	Physical Review B 103.10 (2021) . Optical detection of paramagnetic defects in diamond grown by chemical vapor deposition
	Other
2019	ACS Photonics 2019, 6, 10. Sub-GHz Linewidth Ensembles of SiV Centers in a Diamond Nanopyramid Revealed by Charge State Conversion
2020	Carbon 170 (2020)

Education

High NV density in a pink CVD diamond grown with N2O addition

2021 Micromachines 12.6 (2021).

Spin-mechanics with nitrogen-vacancy centers and trapped particles

2022 Physical Review Letters 128.11 (2022).

Angle locking of a levitating diamond using spin diamagnetism

2022 Diamond and Related Materials 123 (2022).

Improving NV centre density during diamond growth by CVD process using N2O gas

Languages and computer languages

French Native

English "Proficient" (C2 Cambridge advanced exam)

Pyhton Working basis

C/C++ Understanding