

Elane KOUADOU

PhD Student



INFO

Address: 7 rue Charles Sanglier 45000
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SKILLS

Micro-nanofabrication - Lithography
(optical and electronic), Magnetron
sputtering, Plasma etching processes

Diagnostic - Scanning electron
microscopy (SEM), Transmission electron
microscopy (TEM), Scanning tunneling
microscopy (STM), optical and
mechanical profilometry, Atomic force
microscopy (ATM), Emission
Spectroscopy

Programming /Software – Python,
C++, VESTA, Arduino, Git/Github,
Layout Editor, Zotero

Languages – French (native)
English B2
German A2

HOBBIES

Event planning

J2C – Young Researchers' Days
PlaCEP - international Workshop on
Plasma Cryo Etching Processes

Sport
Tennis

EDUCATION

2021 – Present

PhD in Plasma Physics and Microtecnology

GREMI - University of Orleans, France

2019 – 2021

**Master of Science – Physics and Application,
Nanoscience, Nanodevices and Nanotechnology**

University of Paris Saclay – Paris 11, France

2015 - 2019

**Bachelor of Science – Fundamental and Applied
Physics**

Sorbonne Université – Paris 6, France

WORK EXPERIENCE

2018

Laboratory internship (2 weeks) supervised by Dr. Paola
GIURA – IMPMC (Institut de Minéralogie, de Physique des
Matériaux et de Cosmochimie) – Sorbonne Université

- Study characteristics and physical properties of various minerals.

2020

Laboratory internship (4 month) supervised by Prof.
Emmanuelle RIO – LPS (Laboratoire de Physique des Solides) –
Orsay

- Work on the development of a Python program allowing to estimate the surface tension of pendant and sessile drops from an image.

2021

Laboratory internship (4 month) supervised by Prof. Rémi
DUSSART – GREMI (Groupe de Recherches sur l'Energétique
des Milieux Ionisés) – Université d'Orléans

- Work on the conception and fabrication of silicon-based Micro Hollow Cathode Discharge.

OTHER EXPERIENCES

2019 - Realization of a project on the Zeeman effect.

Realization of an experimental protocol to demonstrate the Zeeman effect on different chemical species using a Fabry-Perot interferometer.