

Ange A. Maurice

Research Engineer, MEng, PhD

Energy Storage · Materials Science · Chemistry · Recycling · Prototyping · Spectroscopy · Python

WORK EXPERIENCE

- 2021–Now **Postdoctoral Researcher**
UNIVERSIDAD CARLOS III DE MADRID · Madrid, Spain 📍
- Monitoring Vanadium Redox Flow Batteries via UV-Visible Spectroscopy
 - Improving Redox flow battery performance via fluid dynamics studies
 - Laboratory management: stock inventory, protocol development, student supervision, equipment
- 2018–2021 **Postdoctoral Researcher**
NANYANG TECHNOLOGICAL UNIVERSITY · Singapore 📍
- Development of an automated microfluidic platform for liquid-liquid extraction
 - Hydrometallurgy monitored with X-ray and infrared spectroscopy.
 - Prototyping: Creation and implementation of an automated sorter for electronic waste, integrating X-ray spectroscopy and deep learning.
 - Laboratory safety management: Safety protocols, Hazard identification and training of fellow researchers.
- 2014–2018 **Researcher (PhD)**
NANYANG TECHNOLOGICAL UNIVERSITY · Singapore 📍
- Study of graphene transistors breakdown using laser-controlled crack propagation
 - Defect engineering of 2D materials using femtosecond lasers.
 - Optimizing non-volatile graphene memories, optimizing performance and proposing new models

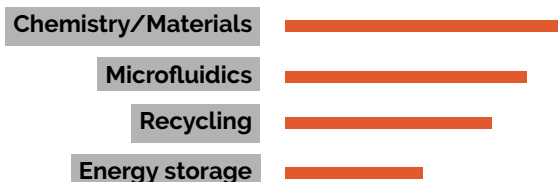
DEGREES

- 2018 **Doctor of philosophy (PhD)**
SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING, NANYANG TECHNOLOGICAL UNIVERSITY/CNRS · Singapore 🏛️
"Thermal failure of carbon nanostructures"
- 2014 **Master of engineering (MEng)**
MATERIALS SCIENCE AND ENGINEERING, INSTITUT NATIONAL DES SCIENCES APPLIQUEES · Lyon, France 🏛️
- 2011 **Technology University diploma (DUT)**
INSTRUMENTATION AND MEASUREMENTS, MATERIALS SCIENCE, INSTITUT UNIVERSITAIRE DE TECHNOLOGIE (IUT) · Montpellier, France 🏛️

PROGRAMMING/SOFTWARE



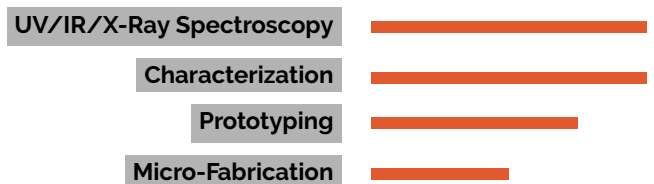
KNOWLEDGE



LANGUAGES

French	Native speaker
Spanish	Fluent/Bilingual
English	Fluent/Bilingual
Bulgarian	Basic conversation

EXPERIMENTAL



OTHERS



ACADEMIC RECORDS

ORCID profile: <https://orcid.org/0000-0003-1282-857X>
18 publications, 5 conferences, 7 research projects, ≈ 300 citations
Iberdrola/Marie-Curie Co-fund postdoctoral award