



Aurèle CAMY

Doctor in Organometallic Chemistry

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Personal vehicle

French nationality

08-25-1995

EDUCATION

2019-2023 **PhD - "Synthesis and coordination of diphosphine NHC-borane ligands"**
LCC CNRS (Toulouse) - Supervised by Dr. Sébastien Bontemps

- Synthesis of 27 organic and organometallic compounds sensitive to air, water or light by mean of vacuum line and glovebox
- Extraction and purification by crystallizations, filtrations, chromatographic columns
- Characterization of isolated compounds: NMR (1D & 2D, ¹H, ¹³C, ³¹P, ¹¹B nuclei), XRD, IR, UV-Vis, CHN, HR-MS, cyclic voltammetry and/or Mössbauer
- Bibliographic survey, written and oral communications of results in English
- Management of 3 Master interns and technical tasks (solvent purification system, glovebox, vacuum pumps, glassware, consumables)
- 2 publications published (doi: 10.1021/acs.inorgchem.3c00785 ; doi: 10.1002/chem.202104122), 2 publications in progress

2017-2019 **Master Degree - Green Chemistry**
University of Paul Sabatier (Toulouse)

- Heterogeneous and homogeneous catalysis, organometallic chemistry, polymer chemistry, valorization of biomass, formulation, atom economy, life cycle assessment (six-months project), ecotoxicology

2014-2017 **Bachelor Degree - Organic Chemistry**
University of Sciences (Montpellier)

- Organic chemistry, biochemistry (enzymology, structural biology), retrosynthesis
- One-year project : "Regioselective protections of carbohydrate"

2014 **High School Diploma - Scientific** (Chemistry-Physic Option)
High School Louis Barthou (Pau)

WORK EXPERIENCES

2021
2 months **Internship - "Study and synthesis of new boryl-metal complexes"**
Technical University (Braunschweig, Germany) - Supervised by Pr. Marc Walter

- Synthesis and study of first row transition metal complexes under inert atmosphere

2020
1 week **Teaching** - Supervision of practical works at ENSIACET engineering school (Toulouse)

2019
6 months **Internship - "Photocatalyzed C-H bond activation of organic molecules"**
LCC CNRS (Toulouse) - Supervised by Dr. Olivier Baslé

- Photo- and thermal metallocatalysis in homogeneous media
- Isolation of compounds through chromatographic columns, UPLC-UV
- 1 publication (doi: 10.1039/D2CC03909E)

2018
2 months **Internship - "Degradation of an organic dye in water through Photo-Fenton reactions"**
IMRCP Laboratory (Toulouse) - Supervised by Dr. Florence Benoit-Marquié

- Assembly of ions with co-polymers, DLS analysis of aggregate size distribution
- Photocatalytic degradation of a dye under UV-Vis irradiation
- 1 publication (doi: 10.1002/chem.202002362)

2015
1 month **Inventory of chemicals**
TOTAL Laboratory (Lacq)

COMPUTER SKILLS

Pack Office
MestReNova, Topspin
Scifinder, Zotero
ChemDraw
Mercury
Origin
HTML/CSS (Notions)

LANGUAGES

French - Native speaker
English - B2 Level
German - A1 Level

Travels - Nepal, India, Germany,
Canada, United-States,
Switzerland, England, Italy,
Spain, Turkey, Canary Islands

ORAL COMMUNICATIONS (EN)

PhD Defense (Toulouse, 2023)
JCC (Villeneuve d'Ascq, 2022)
SECO (Bussang, 2021)
Oral Communication Award
YIS (Toulouse, 2019)

VOLUNTEERING

Organization of Greenhouse
gases workshop at *Fête de la*
Science, LCC 2022

Member of the youth network of
Société Chimique de France
2021-2022

Waste collections with *Champs*
d'Actions and *Pondyploggers*
2023

SPORTS

Climbing, Hiking, Swimming

REFERENCES

Dr. Sébastien Bontemps (Research fellow in Laboratoire de Chimie de Coordination / PhD supervisor) sebastien.bontemps@lcc-toulouse.fr

Pr. Marc Walter (Teacher-researcher in IAAC Institute / Internship supervisor) mwalter@tu-bs.de

Dr. Olivier Baslé (Research fellow in Laboratoire de Chimie de Coordination / Internship supervisor) olivier.basle@lcc-toulouse.fr