

Vincent Lafouasse

Graduate student in Chemistry (M2)

Research Interest

ABOUT ME I am mainly interested in the field of Molecular Chemistry, especially Total Synthesis. I am currently looking for a 6-month internship beginning January 2021 and am also looking for a PhD for Fall 2021.

Education

- Fall 2020 **(M2) M.Sc. in Molecular Chemistry and Interfaces**,
École Normale Supérieure de Paris-Saclay – École Polytechnique, Paris-Saclay (91).
A high-level scientific and academic program devoted to molecular chemistry and its applications to the fields of biology and material sciences. Training will particularly focus on organometallic chemistry and catalysis, supramolecular chemistry, chemobiology, and chemistry for optoelectronics. The courses are given in english, they are completed by a literature project, a total synthesis project as well as a 6 months research project.
- 2018–2020 **(M1) M.Sc. in Chemistry**, *Université Paris-Sud*, Orsay (91).
Organic Chemistry platform
- 2017–2018 **B.Sc. in Chemistry (Physics minor)**, *Sorbonne Université*, Paris (75).
Fundamentals of Chemistry and Physics
- 2015–2017 **B.Sc. Sciences de la Matière**, *Ecole Normale Supérieure de Lyon*, Lyon (69).
Élève normalien : A unique, non-specialized training program in Physics and Chemistry
- 2013–2015 **Classe Préparatoires (CPGE) PCSI/PC***, *Lycée Henri IV*, Paris (75).
Two years of intensive theoretical courses in Mathematics, Physics and Chemistry in order to prepare for École Normale Supérieure national selective exams as well as other prestigious graduate schools.
- 2013 **Baccalauréat (A-levels)**, *Lycée de l'Île-de-France*, Villebon-sur-Yvette (91).
Science major, Highest Honours

Experience

Research

- 2020 **4 month internship**, *ICMMO (UMR 8182)*, Orsay (91), Electrocatalysis and CO₂ valorization.
Under the direction of Mohamed Mellah and Emmanuelle Schulz
Préparation de dérivés de type acide 2-phénylpropanoïque énantioenrichis, en partant d'halogénures benzéniques secondaires par activation du CO₂ en présence de quantités catalytiques de Sm(II) électrogénéré

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- 2018 **Lab week**, *Sorbonne Université*, Paris (75), Supramolecular Chemistry.
Under the direction of Matthieu Sollogoub (IPCM, GOBS) as part of the UE 3C015 TEOREM
Detailed achievements :
— Study of β -CD based inclusion compounds
— Synthesis and RMN characterisation of a α -CD based [3]-rotaxane
— Synthesis and RMN characterisation of a self-assembled iron cage
- 2014-2015 **TIPE**, *Lycée Henri IV*, Paris (75), Supramolecular Chemistry.
Under the direction of Julien Lalande
Detailed achievements :
— Synthesis of dibenzo-18-crown-6 using Pedersen's original protocol
— Qualitative and quantitative study of crown ether complexes with different cations
- Teaching**
- 2018–now **Chemistry Professor**, *Optimal Sup Spé*, Paris (75).
Teaching groups of CPGE students from all scientific tracks (PC, MP, PSI, BCPST)
Detailed achievements :
— +12h of formation and +200 h of class
— a lot of \LaTeX edition
— Preparation of students for the national entrance exams to XENS

Languages

French	Fluent	<i>Native speaker</i>
English	Fluent	<i>C2 BULATS 05/18</i>

Skills

Molecular Chemistry	Organic Synthesis, Total Synthesis, Supramolecular Chemistry	
General Chem	Quantum Chemistry, Spectroscopy, Cristallography	
Physics	Quantum Mechanics, Thermodynamics	
Code	Python🐍, \LaTeX , Julia🍊	<i>Familiar</i>
	C	<i>Basics</i>

Interests

Music	Jazz guitar, Trumpet
	Music theory and Jazz harmony
	Dance

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