

Vincent Lafouasse

B.Sc. in Chemistry

Research Interest

I am mainly interested in the field of Molecular Chemistry, especially Organic Synthesis, Total Synthesis and Supramolecular Chemistry and I am currently looking for a 6-month internship beginning in February 2020 and for a PhD for fall 2020

Education

- 2020–now **Master 2 (M.Sc.) 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. This program gives state-of-the-art knowledge in chemical sciences and brings the students towards their applications in industry.
- 2018–2020 **Master 1 (M.Sc.) Chemistry**, *Université Paris-Sud*, Orsay (91).
Organic Chemistry platform
- 2017–2018 **Bachelor (B.Sc.) Chemistry (Physics minor)**, *Sorbonne Université*, Paris (75), .
Fundamentals of Chemistry and Physics
- 2015–2017 **Bachelor (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 exam
- 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
— \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
Programming	Python🐍, \LaTeX , Julia🌈, C

Interests

Music	Jazz guitar, Trumpet
	Music theory and Jazz harmony
	Dance

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