Vincent Lafouasse

Graduate student in Molecular Chemistry (M2)

> "There is excitment, adventure, and challenge,
> and there can be great art in organic synthesis."
>
> — Robert B. Woodward [1]

Research Interest

About me — I am mainly interested in the field of Organic Synthesis, especially Total Synthesis. I am currently looking for a 6-month internship beginning January 2021 and for a PhD for Fall 2021.

Education

Fall 2020 — **(M2) M.Sc. Molecular Chemistry and Interfaces**,
École Normale Supérieure de Paris-Saclay – École Polytechnique, Paris-Saclay (91).
A high-level program devoted to molecular chemistry and its applications to the fields of biology and material sciences.
Advanced organic synthesis, Organometallic chemistry and Catalysis, Supramolecular chemistry, Chemical Biology, Molecular modeling and chemistry for Optoelectronics.

2018–2020 — **(M1) M.Sc. Chemistry**, *Université Paris-Saclay*, Orsay (91), High Honours.
Organic Chemistry specialization

2017–2018 — **(L3) B.Sc. Chem. (Physics minor)**, *Sorbonne Université (ex-UPMC)*, Paris (75), High Honours.
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 Préparatoire PCSI/PC* (CPGE)**, *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 examas well as other prestigious graduate schools (*Grandes Écoles*).

2013 — **Baccalauréat (A-levels)**, *Lycée de l'Île-de-France*, Villebon-sur-Yvette (91), Highest Honours.
Science major

1. as reported by : Nicolaou, K. C. ; Sorensen, E. J. Introduction : Constructing the Molecules of Nature. In *Classics in total synthesis : targets, strategies, methods* ; Wiley-VCH ; **1996** ; p 3.

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Experience

Research

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 caracterisation of a α-CD based [3]-rotaxane
- Synthesis and RMN caracterisation 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	*Native speaker*
English	Fluent	*C2 BULATS 05/18*

Skills

Molecular Chemistry	Organic Synthesis, Organometallic Chem., Catalysis, Asymmetric Synthesis	
General Chem	Quantum Chemistry, Spectroscopy, Chemical Thermodynamics	
Physics	Quantum Mechanics, Thermodynamics	
Code	Python, LaTeX, Julia	*Familiar*
	Clojure, C, Bash, git	*Basics*

Interests

Music Jazz guitar, Trumpet
Music theory and Jazz harmony
Dance

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