

# Vincent Lafouasse

*Graduate research student in Molecular Chemistry (M2)*

“There is excitement, adventure, and challenge,  
and there can be great art in organic synthesis.”

— ROBERT B. WOODWARD<sup>1</sup>

## 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 exams as 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  $\beta$ -CD based inclusion compounds  
— Synthesis and RMN characterisation of a  $\alpha$ -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  $\text{\LaTeX}$  edition  
— Preparation of students for the national entrance exams to XENS






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## Languages

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

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## Skills

Molecular Chemistry	Organic Synthesis, Organometallic Chem., Catalysis, Asymmetric Synthesis	
General Chem	Quantum Chemistry, Spectroscopy, Chemical Thermodynamics	
Physics	Quantum Mechanics, Thermodynamics	
Code	Python  , $\text{\LaTeX}$ , Julia 	<i>Familiar</i>
	Clojure  , C, Bash  , git 	<i>Basics</i>

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## Interests

- Music Jazz guitar, Trumpet  
Music theory and Jazz harmony  
Dance

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