



# Lauriane PIERROT DESEILLIGNY

✉ lauriane.pierrot\_deseilligny@ens-lyon.fr

🏠 12 rue Béchevelin, Lyon 69007

📍 Lyon Paris

📅 23 years old

🗺️ French

📞 +33 683364026

## Skills

### Python

- Numpy, matplotlib, scipy, pandas, scikit learn, pytorch, tensorflow

### LaTeX

## Languages

### English

C1 - Cambridge Advanced Certificate

### Spanish

### Vietnamese

## Academic stays

Ecole Centrale of Beijing [2018]

French High School of Santiago, Chile [2014]

## Interests

Swimming

Thai boxing

Cello

Piano

## Diploma and academic studies

### École Normale Supérieure (ENS)

From 2020 to 2024 [ENS de Lyon](#) Lyon

- **Second year of master in complex systems** : modeling and data analysis, complex systems and networks, machine learning [2022-2023]
- **Bachelor's degree and firsts year of master**: Physics and chemistry [2020 - 2022]
- **Accepted at ENS through Polytechnique-ENS competitive exam** [2020]

### Classes préparatoire (intensive foundation degree)

From 2017 to 2020 [Lycée Louis Le Grand](#) Paris

- Elite classes in physics maths and chemistry (preparation to Polytechnique and ENS competitive exams).

### Highschool

From 2014 to 2017 [Lycée Louis Le Grand](#) Paris

- A-level exam with highest honour (18.2/20)

## Work experience

### Research internship - first year of Master's degree

From May 2022 to July 2022 [Oxford University, Susan Perkin's group](#) Oxford

- Theoretical soft matter: behaviour of highly concentrated electrolytes to provide better understanding of batteries for energy storage.

### Research internship - last year of bachelor's degree

From June 2021 to July 2021 [AgroParisTech, Hervé This Group](#) Paris

- Analytical chemistry and food science : reactions involved in the pyrolysis of proteins.

## Projects

### Convolution Neural Network

January 2023 [Machine Learning \(Python\)](#) ENS Lyon

- Research project on the application of ConvNet to image processing

### Modeling the spread of chikungunya disease

January 2023 [Modeling in biology and medicine \(Python\)](#) ENS de Lyon

- Research project in the modeling of the spread of chikungunya disease

### Course on generative adversarial network

November 2022 [Machine learning](#) ENS Lyon

- Teaching experience

### Engineering for building a prototype for polymer analysis

March 2022 [Arduino - RaspberryPi](#) ENS de Lyon

- Construction of an Arduino-monitored dynamic mechanical analysis (DMA) device

### French universities tournament of young chemists

March 2022 [ChimieParis](#) Paris

- 1st Prize [[Prize award](#)].

### Code YOCKO

2021 [Modeling in theoretical chemistry \(Python\)](#) ENS de Lyon

- Geometry optimization of dihydrogen molecule C. Cattin, using Hartree-Fock (geometry hartree-fOCK Optimisation) [[code -GitHub](#)]