

# Gaëtan Serré

## Intern at Centre Borelli - ENS Paris-Saclay

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## Experience

### Research intern

Centre Borelli - ENS Paris-Saclay Tutor: [Nicolas Vayatis](#)

Pre-PhD internship on global optimization methods for hyperparameters selection.

Apr. 2023 - Sept. 2023

Gif-Sur-Yvette, France

### Research intern

LISN & RTE Tutor: [Isabelle Guyon](#)

Organized the 2022 edition of the reinforcement learning series of challenges [Learning to Run a Power Network](#).

May 2022 - Aug. 2022

Gif-Sur-Yvette, France

### Research intern

LMF Tutor: [Jean-Christophe Filliâtre](#)

Improved [Why3](#), a software for deductive program checking.

May 2021 - Jun. 2021

Gif-Sur-Yvette, France

## Education

### ENS Paris-Saclay

M2 Mathématiques, Vision, Apprentissage

Notables courses: Statistical learning, Bayesian machine learning, Theory of deep learning, Random matrices theory, Reinforcement learning.

Sept. 2022 - Aug. 2023

Gif-Sur-Yvette, France

### Université Paris-Saclay

M1 Artificial Intelligence

Sept. 2021 - Aug. 2022

Gif-Sur-Yvette, France

### Université Paris-Saclay

Double bachelor degree Mathematics & Computer science

Sept. 2018 - Aug. 2021

Gif-Sur-Yvette, France

## Publications

*Experimental Improvements of Global Optimization Algorithms for Lipschitz Functions* 2023 - IPOL journal (submitted)

*Reinforcement learning for Energies of the future and carbon neutrality: a Challenge Design* 2022 - Pre-print

## Conferences

*NeurIPS*, AutoML Decathlon 2022 solution presentation.

07 Dec. 2022 - New Orleans, USA

*IEEE WCCI IJCNN*, L2RPN 2022 presentation.

20 Jul. 2022 - Padova, Italia

## Skills

### Programming Languages

Python | C++ | OCaml | CUDA

### Libraries

Pytorch | Tensorflow | SB3 | RLlib | Scikit-Learn | ONNX | Numpy | Matplotlib

### Tools

Git |  $\text{\LaTeX}$  | Jupyter | SSH | Linux | macOS

### Languages

Native: French | Fluent: English (TOEIC 945)