



# GAËTAN SERRÉ

Artificial Intelligence Master – Paris-Saclay

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Gif-Sur-Yvette, France

gaetanserre

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## SKILLS

### Programming

Python

Tensorflow

Pytorch

SB3

RLlib

C++

CUDA

ONNX

OCaml

Java

### Office software

LaTeX

Office suite

## LANGUAGES

French: **Native**

English: **Fluent (TOEIC 945)**

## HOBBIES

Chess: **~1300 Elo**

Taekwondo: **Paris champion and IDF vice-champion in 2016**

Piano: **since 2020**

Escape Game: **since 2018**

## ABOUT ME

*I am studying in the Artificial Intelligence master of Paris-Saclay. I am passionate about reinforcement learning, game theory, representation learning and computer graphics. I have done many projects, all available on my Github.*

## EDUCATION

Master Artificial Intelligence | **Université Paris-Saclay**

Sept. 2021 – June 2022

Gif-Sur-Yvette, France

Noteworthy courses:

- Applied statistics (Supervisor: Marie-Anne Poursat)
- Mathematics for data science (Supervisor: Marcella Bonazzoli)
- Fundamental principles of machine learning (Supervisor: François Landes)
- Deep learning (Supervisor: Caio Corro)

Double bachelor degree mathematics/computer science | **Université Paris-Saclay**

Sept. 2018 – June 2021

Gif-Sur-Yvette, France

- With honors

## EXPERIENCE

Internship | **INRIA & RTE**

May – August 2022

Gif-Sur-Yvette, France

Supervisor: Isabelle Guyon

Organization of the new edition of **Learning to Run a Power Network**, a challenge joining reinforcement learning and electrical network in partnership with Réseau de Transport d'Électricité. Creation of a baseline agent merging RL and expert rules to stimulate the participants. I submitted a **paper** to IEEE SSCI as principal author & presented this edition at the IEEE WCCI conference.

Internship | **LMF – INRIA**

May – June 2021

Gif-Sur-Yvette, France

Supervisors: Jean-Christophe Filliâtre & Andrei Paskevich

The purpose of this internship was to improve **Why3**, a deductive program verification software. This allowed me to become familiar with the world of research in a large computer science laboratory.

# CHALLENGES

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I have participated in several artificial intelligence challenges:

- [L2RPN WCCI 2022](#)
- [L2RPN NEURIPS 2020 - Adaptability Track](#)
- [Aerial Image Recognition](#)

# SOME PROJECTS

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## L2RPN 2022 PPO Baseline |


 2022

The code of the baseline agent provided in the 2022 edition of Learning to Run a Power Network.

[RL](#) [SB3](#) [Pytorch](#)

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## GAiA |

 2021

A chess program that uses a complex residual neural network specialized in image recognition.

You can read the report about GAiA [here](#).

[CNN](#) [Game theory](#) [Pytorch](#) [C++](#) [ONNX](#)

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## AlphaZero (RLlib) |

 2022

An implementation of the AlphaZero algorithm in a fork of the RLlib library.

[RL](#) [Python](#) [Pytorch](#)

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## VAE |

 2022

An implementation of a Variational Auto Encoder.

[Python](#) [Pytorch](#)