GAËTAN SERRÉ

M2 Mathématiques, Vision, Apprentissage – ENS Paris-Saclay

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 gaetanserre   🌐 gaetanserre.github.io/

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

M2 Mathématiques, Vision, Apprentissage (MVA) | ENS Paris-Saclay

📅 Sept. 2022 – August 2023   📍 Gif-Sur-Yvette, France

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

I have participated in several artificial intelligence challenges:

- L2RPN WCCI 2022
- L2RPN NEURIPS 2020 - Adaptability Track
- Aerial Image Recognition

SOME PROJECTS

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

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

AlphaZero (RLlib) |

📅 2022

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

RL Python Pytorch

VAE |

📅 2022

An implementation of a Variational Auto Encoder.

Python Pytorch