Erwan FAGNOU

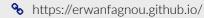## Student (3rd Year) at Télécom Paris & ENS Paris-Saclay (MVA Master)

Passionate about machine learning and mathematics.

- 22 years old
- French
- erwan.fagnou@gmail.com
- https://erwanfagnou.github.io/

EDUCATION

Since September 2022
Institut Polytechnique de Paris
ENS Paris-Saclay
Master MVA (Mathematics, Vision, Learning)
Selective Master's degree in machine learning, preparing the students for research and a PhD. Most of my selected courses are about machine learning theory, deep learning, reinforcement learning and NLP.

Since 2020
Engineering School
Télécom Paris (3rd year)
First computer engineering school in France
Master of Science expected in June 2023
President of Télécode, competitive programming association

From 2018 to 2020
Preparatory Class
Lycée Charlemagne - Paris
Studied mathematics, physics and computer science

RESEARCH EXPERIENCE

Summer 2021: internship at INRIA (French institute for research in computer science), on a machine learning approach for traffic prediction inspired by Robust PCA algorithms from the [literature](#).

MACHINE LEARNING PROJECTS

Programming drones to rescue people (1st prize)
Winner of a 6-month team contest organized by DGA (Direction Générale de l'Armement) about controlling drones in a [simulation](#) to explore an unknown hostile environment and bring back injured people. Our approach used different machine learning algorithms to clean and organize the sensor data, with a MCTS search to make decisions.

... and many other personal research projects
Exploration and experimentation of ideas and thoughts in many different fields of machine learning, e.g. autoencoders, classical and inverse **reinforcement learning**, design of new **optimization** algorithms for training neural network.

More details about my projects are on my website:

https://erwanfagnou.github.io/projects/

COMPETITIONS

April 2022
32nd out of 97 teams
SWERC (ICPC)
International team contest on algorithmic problem solving.

March 2022
1st prize (8000€)
Swarm Rescue Challenge (DGA)
A 6-month machine learning contest (description in the "projects" section).

March 2021
2nd place
Hackathon - Total Energies
Data challenge, which required predicting the future price and origin of electricity with various datasets. See [here](#).

From 2020 to 2021
2nd place twice (2020 and 2021)
Prologin
French national programming competition

And many more contests every year, like Google Hashcode, Google Code Jam, Reply Challenge, CodinGame challenges...

SKILLS

Programming (Python, C++)

Regular use of machine learning libraries (TensorFlow, PyTorch)

Solid background in mathematics and algorithmics

LANGUAGES

French
Native language

English
Fluent (both written and spoken)

Spanish
Conversational

HOBBIES & INTERESTS

Sport
- Badminton (training and competitions for 15 years)
- Boxing

Music
Enjoys playing the piano and saxophone