

# Yohann PERRON

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## EXPERIENCE

### LCAV, EPFL (Switzerland) — LenslessPiCam

May 2023 - September 2023

- Contributing to an open-source project: <https://github.com/LCAV/LenslessPiCam>
- Unrolled optimization, PnP method for image reconstruction in lensless imaging setting
- Using proximal algorithms and python/pytorch

### DIISM, Sienna (Italy) — Graph Neural Network

June 2022 - September 2022

- Graph of graph neural network model apply to drug side effect prediction.
- Results published in *Mathematics* : <https://www.mdpi.com/2227-7390/10/23/4550>

### STmicroelectronics, Crolles (France) — Deep learning internship

June 2021 - September 2021

- Deep learning applied to mask preparation in lithography process.
- Extensive use of Tensorflow and CNN models

### French Navy, Brest (France) — Officer cadet on the Frigate 'La Motte-Picquet'

October 2019 - March 2020

- Supervised the pre-disarmament inventory of the bridge
- Kept watch as a junior officer

## EDUCATION

### ENS Paris-Saclay, Saclay(France) — Master MVA (Mathematics, Vision, Learning)

2022 - present

- Machine learning cursus including Deep Learning, Computer Vision, Reinforcement Learning, Natural Language Processing
- Graduation expected in 2023

### École Polytechnique, Palaiseau (France) — Ingénieur Polytechnicien Program (Master of Sciences) with Image, Vision, Learning specialization

2019 - present

- Course work includes Computer Science, Statistics, Economics, Physics, Biology
- Graduation expected in 2023

## PROJETS

### Optimization of molecular energy with small computational cost — Group Research Project 2020

- Analyze the QM9 dataset to approximate HOMO and LUMO energy using TensorFlow
- Generate molecule with high HOMO and low LUMO energy with Evolution Algorithm

### Structure from motion pipeline — Project 2020

- Simple and modular pipeline written in C++
- Inspired from : Structure-from-Motion revisited, Schönberger and Frahm 2016

## LANGUAGES

- French – native speaker
- English - advanced
- German - intermediate
- Spanish – intermediate

## IT SKILLS

- Familiar with Word, Excel and PowerPoint
- C++ and Python
- Deep learning (TensorFlow & Pytorch)