Yohann **PERRON**

PhD Candidate - Computer Vision

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I am a PhD student at Imagine, LIGM, ENPC and EFEO working under the supervision of **Loïc Landrieu**, **Vladyslav Sydorov** and **Christophe Pottier**. I work on applying Computer Vision to Multimodal Geospatial data with applications in Archaeology and Forestry.

Experiences

June 2022 – September 2022 — **Internship: LenslessPiCam, LCAV, Sienna, Italy**
- Contributing to an open-source project: `https://github.com/LCAV/LenslessPiCam`
- Unrolled optimization, PnP method for image reconstruction in lensless imaging setting

Deep learning | Computer Vision | Optimization | Pytorch

June 2022 – September 2022 — **Internship: Graph Neural Network, LCAV, Sienna, Italy**
- Graph of graph neural network model apply to drug side effect prediction with Franco Scarselli.
- Results published in Mathematics : `https://www.mdpi.com/2227-7390/10/23/4550`

Deep learning | Graph Neural Network | Tensorflow

June 2021 – September 2021 — **Internship: Deep learning, STMicroelectronics, Crolles, France**
- Deep learning applied to mask preparation in lithography process.
- Extensive use of Tensorflow and CNN models

Deep learning | Computer Vision | Tensorflow

October 2019 – March 2020 — **Officer cadet on the Frigate "La Motte-Picquet", French Navy, Brest, France**
- Kept watch as a junior officer
- Supervised the pre-disarmament inventory of the bridge

Leadership | Discipline | Teamwork

Publication

TMLR 2026 — Adapting Vision Transformers to Ultra-High Resolution Semantic Segmentation with Relay Tokens
Yohann Perron, Vladyslav Sydorov, Christophe Pottier, Loic Landrieu

CVPR 2025 — Open-Canopy: Towards Very High Resolution Forest Monitoring
Fajwel Fogel, Yohann Perron, Nikola Besic, Laurent Saint-André, Agnès Pellissier-Tanon, Martin Schwartz, Thomas Boudras, Ibrahim Fayad, Alexandre D'Aspremont, Loic Landrieu, Phillipe Ciais

TCI 2025 — Towards Robust and Generalizable Lensless Imaging With Modular Learned Reconstruction
Eric Bezzam, Yohann Perron, Martin Vetterli

NeurIPS 2024 — Archaeoscape: Bringing Aerial Laser Scanning Archaeology to the Deep Learning Era
Yohann Perron, Vladyslav Sydorov, Adam P. Wijker, Damian Evans, Christophe Pottier, Loic Landrieu

ICIP 2024 — A Modular and Robust Physics-Based Approach for Lensless Image Reconstruction
Yohann Perron, Eric Bezzam, Martin Vetterli

Mathematics 2022 — Drug Side Effect Prediction with Deep Learning Molecular Embedding in a Graph-of-Graphs Domain
Yohann Perron, Niccolò Pancino, Pietro Bongini, Franco Scarselli

Studies

2023 - present — PhD, **Computer Vision for Earth Observation, Imagine, LIGM, ENPC & EFEO, France.**
Computer Vision | Remote Sensing | Deep Learning | Archaeology | Forestry

2022 - 2023 — Master of Science, **MVA (Mathematics, Vision, Learning), ENS Paris-Saclay, Saclay(France).**
Machine Learning | Computer Vision | Natural Language Processing | Reinforcement Learning | Optimization

2019 - 2023 — Master of Science, **Ingénieur Polytechnicien Program, École Polytechnique, Palaiseau (France).**
Computer Science | Statistics | Economics | Physics | Biology

Languages

French ●●●●●
English ●●●●○
German ●●○○○

IT skills

Python ●●●●●
C++ ●●●○○
LaTeX ●●●●○
Linux ●●●●○