Experience & curriculum vitae

Computer vision, deep learning and multimodal perception. A journey between academic research and applied engineering.

Grenoble, France · yoann.dupas.pro@gmail.com

Experience

Present
Algorithm & AI engineer · Permanent role
LYNRED

Computer vision, algorithms and artificial intelligence.

2022 — 2026
Doctoral research · CIFRE
Orange × Laboratoire d’Informatique de Grenoble

Multimodal early fusion with attention mechanisms for pedestrian and vehicle detection.

2021 — 2022
Research & development engineer
WiseBIM · Chambéry

Research and development of document recognition solutions.

Mar — Aug 2021
Final-year engineering internship · Deep learning
WiseBIM · Chambéry

CNN development with Keras and TensorFlow; creation and annotation of training datasets.

2020
Research internship
I3S · Université Côte d’Azur

Research and development of deep neural networks, including LSTM and graph attention networks.

Education

2022 — 2026
PhD in Computer Science
Université Grenoble Alpes · MSTII

2018 — 2021
Engineering degree in Computer Science
Polytech Tours

2016 — 2018
Preparatory engineering cycle
Polytech Tours

Technical skills

Deep learning

PyTorch · TensorFlow · Keras · CNN · Transformers · LSTM · GAT

Computer vision

RGB / IR / LiDAR · YOLOv8 · RT-DETR · Attention · Segmentation

Engineering

Python · C++ · Docker · Git · CI/CD · MLOps · Quantization

Languages

French · Native / English · Fluent

Publications

2026 ICMV 2025 · SPIE / Conference paper

MEFA-MS: attention-based U-Net for pedestrian and vehicle detection

Yoann Dupas, Olivier Hotel, Grégoire Lefebvre, Christophe Cérin

2026 Université Grenoble Alpes / Doctoral thesis

Approches avancées de fusion précoce d'images multimodales pour la détection de piétons et de véhicules

Yoann Dupas

2025 ICCV Workshops 2025 · MIRA / Conference paper

Towards a Generalizable Fusion Architecture for Multimodal Object Detection

Jad Berjawi, Yoann Dupas, Christophe Cérin

2025 VISAPP 2025 / Conference paper

MEFA: Multimodal Image Early Fusion with Attention Module for Pedestrian and Vehicle Detection

Yoann Dupas, Olivier Hotel, Grégoire Lefebvre, Christophe Cérin

2024 EGC 2024 / Conference paper

Empreinte Énergétique de YoloV8 pour la Détection de Piétons et de Véhicules

Yoann Dupas, Olivier Hotel, Grégoire Lefebvre, Christophe Cérin