Hadrien Levechin

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Summary

After my studies in engineering at Télécom Paris and in the MVA Master's program (Mathematics, Vision, and Learning) at ENS Paris-Saclay, I am looking for my first position in computer vision and deep learning. Curious, autonomous, and motivated, I enjoy tackling complex problems and applying my knowledge to real-world projects where technology creates both creative and practical value.

Education

MVA (ENS Paris-Saclay), Research Master in Mathematics, Vision and Learning

Sept 2024 - Nov 2025

Focus: generative models, deep-learning (MLP, CNN, Transformers), computer vision, geometric and topological data analysis

- Generative Modeling: Deep Generative Models Optimal Transport Probabilistic Graphical Models
- Geometry & Topology: Geometry Processing Geometric Deep Learning Deformable and Geodesic Models
- Medical Imaging: Deep Learning for Medical Imaging Biophysical Models
- Math Foundations: Convex Optimization Computational Statistics Time Series Learning

Télécom Paris, Engineering Degree Program – GPA: 4.0 / 4.0

Sept 2021 - Dec 2025

IMAGE Track: mathematics, computer vision, and AI

 Computer vision • Object recognition and segmentation • Variational and Bayesian methods • Coherent imaging • Source separation • Remote sensing • Medical imaging

Data Science Track: statistical and machine learning

- Advanced statistics • Optimization • Machine learning • Deep learning

Classe Préparatoire, Fénelon Sainte-Marie, MPSI & PSI*

Sept 2019 - June 2021

Experiences

Research Intern — Deep Learning for Medical Imaging, GE HealthCare – Buc

April 2025 - Oct 2025

- Generalization to spectral CT (GSI): adapted multi-label segmentation methods to dual-energy acquisitions, improving robustness across spectral domains.
- Cascaded networks under CPU constraints: designed a multi-resolution refinement pipeline to better segment small structures with feasible inference times; delivered two variants (lightweight fast model and high-accuracy model).

Additional Professional Experiences – France

2019 - 2024

- Private Tutor (Mathematics and Physics)
- Held multiple roles in the restaurant industry, including server, bartender, and team manager.

Projects

Hyperspectral Image Super-Resolution (Group Project)

2024

- Implemented a deep learning approach for hyperspectral image super-resolution by fusing low-resolution hyperspectral and highresolution multispectral images.
- Impact: Acquired practical experience implementing recent research architectures and addressing challenges in spectral-spatial fusion and training stability.

3D Digital Holography (Group Project)

2023

- Created digital holograms from 3D files using light interference on a spatial light modulator (SLM), bypassing optical setup adjustments.
- Methods: Implemented diffraction algorithms based on Rayleigh-Sommerfeld and Fresnel integrals in Python, leveraging existing research and computational tools.
- Impact: Designed a protocol at Télécom Paris to visualize holograms from digital 3D object files.

Voluntary Experiences

President & Founding Member, Télécom Racing

2021 - 2024

- Founded an association promoting responsible and accessible motorsport.
- Organized large-scale events, including participation in the 24 Hours of ESSEC (largest European student race).

Project Manager, Junior Entreprise Télécom Paris

2023 - 2024

Managed multiple study projects for corporate clients, coordinating student teams and ensuring project follow-up.

Skills, Languages & Interests

Technical: Python (TensorFlow, PyTorch, Scikit-learn) • Machine Learning • Deep Learning • Computer Vision

Soft Skills: Leadership • Team Spirit • Autonomy • Problem Solving • Adaptability

Languages: English (C1) • French (Native) • Spanish (B1) Hobbies: Guitar • Piano • Photography • Karting • Jujitsu