

Masters Student at the Master MVA, looking for an end of studies internship starting April 2024. My research interests focus mainly on Deep Learning and its applications to Computer Vision, through multimodal LLMs and transformers.

☎ 0698334780

## Education

- From September 2024 to September 2025 ● **ENS Paris-Saclay**  
**Master MVA** Paris  
Computational statistics, Robotics, Geometric Data Analysis, Convex Optimization, Reinforcement Learning, Deep Learning for Signal Processing, Representation Learning, Deep Learning for Medical Imaging, LLM, Generative models
- From September 2021 to September 2025 ● **Télécom Paris - Institut Polytechnique de Paris**  
**Engineering Degree** Palaiseau
- **Image Processing and Computer Vision** : Image processing, 3D Reconstruction, Computer Vision, Deep Learning (MAJOR)
  - **Signal Processing for Artificial Intelligence** : Statistical learning, Signal processing, Data processing, Big data, optimization, statistics (MINOR)
  - **1<sup>st</sup> year**: 3.64/4 GPA
  - **2<sup>nd</sup> year**: 4/4 GPA
- From September 2019 to June 2021 ● **Lycée Saint-Louis**  
**Preparatory classes** Paris 5  
**MPSI then MP\*** : Mathematics, Physics and Engineering

## Projects – Research Experience

- From May 2023 to June 2023 ● **Variational Auto-Encoders for cardiac shape modeling**  
**Télécom Paris** Palaiseau  
One month end of year project carried out in groups of 3. Implementation and training of a Variational Auto Encoder for Cardiac MRI segmentations. Our goal was to explore the latent space and understand its modelisation of the cardiac anatomy.
- From March 2023 to May 2023 ● **Prediction of cardiac pathologies**  
**Télécom Paris** Palaiseau  
Two months project carried out alone. Implementation of Machine Learning algorithms to classify heart MRIs in five different classes all leading to a different diagnosis.

## Experience

- From January 2024 to July 2024 ● **Internship - Data Science & Deep Learning**  
**Sopra Steria Real Estate Software** Paris, La Défense  
Development of NLP models to use in chatbots geared towards customer interaction :
- **Finetuning of open source LLMs** : Database creation, choice of a suitable model through benchmarks
  - **Use of LLMs to generate proprietary APIs calls**
  - **NER and Intent Classification** with transformers finetuning (BERT)
- From July 2023 to December 2023 ● **Research Internship - Data Science & Deep Learning**  
**Spimed-AI** Paris  
Development of Computer Vision and Deep Learning algorithms to automatically classify coronary lesions using CT-scans:
- **Développements of deep learning algorithms** : self-supervised contrastive learning, classification of coronary images (InceptionNet, Multi-Axis Vision Transformer), segmentation of coronaries on 2D and 3D CT-scans (UNet)
  - **Computer Vision** : MPR generation, 2D and 3D segmentation

## Skills and Interests

### Languages

French (Native), English (bilingual, **TOEFL 117/120**), Spanish (B2), Chinese (B1)

### Computer Sciences

Python (TensorFlow, pandas, OpenCV, PyTorch, scikit-image, scipy, scikit-learn, huggingface...), Java/C++, LaTeX, Docker, Git

### School associative work

School bar association's Co-manager (Management of a team of 20 people, Organisation of weekly events)

### Hobbies

Swimming, Cooking, Golf, Video Games, Audio-visual art, Drawing