

# Maxime Morisset

✉ maxime.mrsst@gmail.com     LinkedIn



## Experience

### PhD Student

*Laboratoire IMS, CNRS, Université de Bordeaux, Bordeaux INP, Talence*

October 2023 - September 2026

- ▶ Worked to improve RGB-D object recognition in the agricultural imagery context
- ▶ Presented work at IPTA 2024 conference
- ▶ Taught students at ENSEIRB-MATMECA

### Number classifier by deep learning on embedded device

*ENSEIRB-MATMECA, Talence*

November 2022 - January 2023

- ▶ Realised as a school project
- ▶ Created dataset and used Keras for training
- ▶ Translated architecture in C for fast inference on Raspberry

### High resolution and GPU accelerated scanner

*ENSEIRB-MATMECA, Talence*

October 2022 - January 2023

- ▶ Realised as a school project
- ▶ Implemented super-resolution approaches in Matlab and C/C++

### Internship at IMS Laboratory

*IMS Laboratory, Talence*

June - September 2022

- ▶ Made grape vine visual analysis by deep learning approaches
- ▶ Read state-of-the-art bibliography in English
- ▶ Used YOLOv4 and YOLOv7 (PyTorch)

### Segmentation of pointclouds from Lidar measurements

*ENSEIRB-MATMECA, Talence*

February - May 2022

- ▶ Realised as a school project
- ▶ Used a Python K-means algorithm (Sklarn library)
- ▶ Computed performance metrics of the results (ASA, IoU)

### PhD Assistant Internship at IMS Laboratory

*IMS Laboratory, Talence*

June 2021

- ▶ Studied fiability to the salt corrosion of electronic components
- ▶ Read state-of-the-art bibliography in English

### Hack'Bordeaux Hackaton

*ENSEIRB-MATMECA, Talence*

June 2019

- ▶ Created a mobile app in 24h
- ▶ Improved stress management

## Education

### PhD in Signal & Image Processing

*École doctorale Sciences Physique et de l'Ingénieur, Talence*

October 2023 - September 2026

### Electronics Major Engineering Degree

*ENSEIRB-MATMECA, Talence*

2020 - 2023

### Electrical Engineering and Industrial Computing Degree

*IUT de Bordeaux, Gradignan*

2018 - 2020

## Skills

### Language

- ▶ French : *Native language*
- ▶ English : *IELTS Academic 7.5/9*  
*TOEIC 940/990*

### Signal & Image

- ▶ Machine Learning : *K-means, Bayesian Classifier, Linear Discriminant Analysis*
- ▶ Deep Learning : *MLP, CNN, ViT*

### Programming

- ▶ C/C++ (CUDA), Matlab
- ▶ Python : *PyTorch, Keras, Captum, OpenCV*

### Office Softwares

- ▶ Document : *LibreOffice, Microsoft Office Suite, LaTeX, Typst*
- ▶ Image : *Affinity Suite*

## Hobbies

### Indoor Climbing

- ▶ Bouldering & 6a+ Lead Climbing

### Reading

- ▶ Fantasy and Sci-Fi novels