

Morgan Scalabrino

Mathematics and Artificial Intelligence Master 2 Student
Université Paris Saclay

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[Morgan Scalabrino | Github](#)

[Morgan Scalabrino | Gitlab](#)

[Morgan Scalabrino | LinkedIn](#)

[About me - Morgan Scalabrino](#)

My project:

Improve my fundamental and practical knowledge in Computer Vision, Multimodal Models and Self Supervised Learning applied to Health and Biology to continue with a PhD in these fields.

Experiences:

Internship Télécom, IMAGES team

Supervised by Maxime Di Folco

Using State of the art detection and classification deep learning and computer vision methods on soil scanners (DINO v2, ConvNeXt v2, MAE). Implementation of hierarchical classification, Masked autoencoder self-supervised learning and custom architectures.

Summer 2026 – 6 months

Paris Saclay

Internship INRIA, THOTH team

Supervised by [Hadrien Hendrikx](#)

Using State of the art detection and classification deep learning and computer vision methods on soil scanners (DINO v2, ConvNeXt v2, MAE). Implementation of hierarchical classification, Masked autoencoder self-supervised learning and custom architectures.

Summer 2025 – 5 months

Grenoble

Internship INRIA, BIOCORE team

Supervised by [Olivier BERNARD](#)

Mathematical modeling in Matlab of microbial ecosystems integrating feedforward neural networks into a mechanistic model of ordinary differential equations.

Summer 2023 – 2 months

Sophia Antipolis

Internship Institut de Biologie de Valrose

Supervised by Franck Delaunay

Introduction to research in biology through the different team of the institute

January 2023

Nice

Education:

Master 1 & 2 Mathematics and Artificial Intelligence

2024-2026

Université Paris Saclay: course in common with MVA's ENS Paris Saclay program and Centrale Supélec Engineering School

Mathematics: Optimization, Mathematical Foundation of Deep Learning and Generative Models, Methods in Regression and Classification, Decision Theory and Convergence Properties of seen models.

Machine Learning: Object Recognition, Representation Learning, Optimization for Computer Vision, Natural Language Processing, Reinforcement Learning, Generative Models, Geometric Processing and Geometric Deep Learning, Clustering, Dimension Reduction and Visualization.

Master Projects:

- Project Management with Git, presentation with Streamlit.
- Presentation and Implementation of research paper: [Multimodal Deep Learning with Feature Wise transformation](#), [Missing Data EM Algorithm](#), [Self Supervised Learning of Reliable Point Representation](#), [CLIP](#).
- 5 Data Challenges on regression and classification for time series and tabular data.

Double Bachelor in Mathematics and Biology

2021-2024

Université Côte d'Azur, Nice

Mathematics & Biology & IT: Foundations in math and biology. Skills in Python, Linux, Scilab, R, algorithmic.

Bachelor Projects: Construction of agent-based model (Netlogo) and of a tool with graphic interface which analyzes genomic databases (Python).

Languages:

English Level C1 (TOIEC 975/990)
Spanish Level B1

Programming Languages/tools:

Python: Pytorch, Transformers, OpenCLIP, FAISS, lightly, lightning, Scikit-learn, Numpy, Panda, Matplotlib
And other tools/languages: GIT, linux system gestion, Zotero, Nvidia Nsight, R, Matlab/Scilab, SQL.

Hobbies:

- Solo unsupported hiking (1 week/month)
- Whitewater kayaking
- Biking