



MORGAN SCALABRINO

Mathematics and Artificial Intelligence M2 Student

Université Paris Saclay

MY PROJECT

Improve my fundamental and practical knowledge in Vision, Multimodal Models and Self Supervised Learning to continue with a Phd.

CONTACT

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[Morgan Scalabrino | Github](#)
[Morgan Scalabrino | LinkedIn](#)
[About me - Morgan Scalabrino](#)

LANGUAGES

English level C1
TOEIC 975/990
Spanish level B1

HOBBIES

Solo unsupported hiking and treks.

Summer 2024: Southern Norway mountains crossing (750km).

Summer 2023: Iceland North-South crossing (650km).

Summer 2022: French Alps crossing from Lake Geneva to Nice (600km).

Sport fishing in rivers and mountain streams.

River kayaking.

Biking.

ORGANIZATIONS

Involved in the conservation of aquatic environments in association.

Qualities developed:

Perseverance, stamina, taste for effort, adaptability.

EXPERIENCES

Summer 2025 – 5 months

Internship INRIA, [THOTH team](#)
Grenoble

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 2023 – 2 months

Internship INRIA, BIOCORE team
Sophia Antipolis

Supervised by [Olivier BERNARD](#)

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

January 2023

Internship - Institut de Biologie
Nice

Supervised by Franck DELAUNAY.

Introduction to research in biology through the different research teams.

Summers 2019-2021

Summer job - Newsagent tobacco shop
Annecy

Sales, delivery control, stock management, inventories.

EDUCATION

2024-2026

Master 1 & 2 Mathematics and Artificial Intelligence

Université Paris Saclay, Courses in common with MVA master and Centrale Supelec.

Mathematics: Optimization, Mathematical Foundation of Deep Learning and Generative Models, Probability, Methods in Regression and Classification (Kernels, SVM, GLM, GAM, Boosting), Decision Theory and Convergence Properties of seen models.

Machine Learning: Object Recognition, Representation learning for Computer Vision and medical Imaging, Optimization for Computer Vision, Natural Language Processing, Reinforcement Learning, Generative Models, Geometric Deep Learning (3D), Clustering and Dimension Reduction (EM, t-SNE, UMAP).

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](#).
- 5 Data Challenges on regression and classification for time series and tabular data.

2021-2024

Double Bachelor Mathematics and Biology (with honours)

Selective Cursus 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).

PROGRAMING LANGUAGES

Proficient with:

Python (Pytorch, Scikit-learn, Numpy, Pandas, Matplotlib, Biopython)
R

Familiar with:

MATLAB / Scilab
SQL