HABIBI Mohammed-Yassine

+33 7 66 98 90 49 habibimohammedyassine@gmail.com

LinkedIn GitHub Personal Website

Education

2025 - 2026 | Public Policies and Actions for Sustainable Development (PAPDD)

ENPC (IPP) and AgroParisTech (Paris-Saclay Uni.), France

General Law, Markets and regulation, Sociology of local power, Sociological news, Public management tools, Digital transformation, Environmental assessment, Ecological transition, European Union, Transport, Agriculture and food, Energy and territories, Forest and wood,

2024 - 2025 | Master's Degree : Mathematics, Vision, Learning (MVA)

ENS Paris-Saclay (Paris-Saclay Uni.), France

Representation learning, Large Language Models, Deep Learning, Computational Optimal Transport, Reinforcement learning, Convex optimization, Computational statistics, Geometric data analysis, Geometric deep learning, Kernel Methods, Online algorithms, Inverse problems and imaging, Data generation by transport and denoising.

2021 - 2024 | Master's Degree : Ingénieur Polytechnicien Program

École Polytechnique (IPP), France

Stochastic calculus, Monte-Carlo methods, Optimization and control, Statistical Learning Theory, Data Analysis, Regression and Classification, Random models for biology and ecology, Random and statistical process modeling

2019 - 2021 | Bachelor's degree / Classes préparatoires

Lycée Sainte-Geneviève, Versailles, France

Top 25 over 150 students. Majored in mathematics, physics, and computer science. Conducted a group project on crowd dynamics.

Research experiences

04/2025 - 08/2025 | Neuroscience-Inspired Encoding and Learning: A Path to Robust Representation Learning *OIST, Japan*

Superviser : Pr. Makoto Yamada (Machine Learning and Data Science Unit)

Explored frontiers between robust representation learning and neuroscience-inspired encoding and learning. *NeurIPS 2025 workshop*.

04/2024 - 07/2024 | Deep Learning and ABC for parameter inference

Columbia University, United States

Superviser : Dr. Simon Tavaré (Herbert and Florence Irving Institute for Cancer Dynamics)

Infered parameters of finite sites evolutionary models to fit them to speciffic cancer data. Applied Deep Learning framework to summarize genomic data observed in a sample of cells & Random Forest Approximate Bayesian Computation (RF-ABC) to infer multivariate vectors of parameters from the summarized genomic data.

Professional experiences

Managing Application's Problem *Eurofins, Hamburg, Germany*

June 2023 - August 2023

Analyzed error logs, identified problems, maintained backlog, and created KPIs dashboards for the eurofins network of analysis laboratories.

Teaching Assistant in Mathematics *Lycée Sainte-Geneviève, Versailles, France*

September 2022 - June 2023

Advised and evaluated students preparing for the entrance exams of French engineering schools.

Skills and interests

Languages

- French: Native Speaker
- English: Proficient
- Chinese: Intermediate
- Arabic: Intermediate

Computing Skills

Python, Java, C++, OCaml
LaTeX, Pytorch, Tensorflow, Scikit-learn, Pandas, Seaborn

Interests

Violin – 8 years of Conservatory / 10 years of orchestra
Running and Cycling
Choir