



Mathis HARDION

Research Internship

✉ mathis.hardion@telecom-paris.fr
in Mathis Hardion
🌐 mhardion
🌐 mhardion.github.io
☎ +33 7 83 38 12 50

Currently in my last year of master's at ENS Paris-Saclay's MVA, I am looking for a research internship and potentially a PhD position to pursue developing my mathematical skills in data modelling and analysis.

Interests

Stochastic models, Statistics, MCMC methods, Optimization, Optimal Transport, Topological Data Analysis, Riemannian Geometry

Education

Sept. 2023 - 2024	Master MVA <i>École Normale Supérieure de Paris-Saclay (Gif-sur-Yvette, France)</i> Research-oriented mathematical degree in Artificial Intelligence, wide spectrum of courses followed in the above domains of interest
Sept. 2020 - 2024	MSc in Applied Mathematics <i>Télécom Paris (Palaiseau, France)</i> Stochastic Modelling and Scientific Computing, Signal Processing and Artificial Intelligence, 4.0 CGPA
Sept. 2018 - Aug. 2020	French "Classe Préparatoire au Grandes Écoles" <i>Lycée Carnot (Dijon, France)</i> MPSI/MP* - Intensive courses in Mathematics, Physics and Computer Science

Professional experience

July 2023 - Sept. 2023	Front Office Support <i>Axpo Solutions AG (Brussels, Belgium)</i> Constrained algorithmic financial optimization of multi-asset heat, power and CO2 production schedules for greenhouses. Applied research, Mathematical modelling, Numerical optimization (Python, LP/MILP, Simulated annealing, Evolutionary algorithm), FTP communication.
July 2021 - Aug. 2022	Education Intern <i>Learning Robots (Gif-sur-Yvette, France)</i> Design and improvement of high-school and post-secondary level practical sessions and videos teaching artificial intelligence algorithms and ethics through robots. Development of new features for the AlphAI robot and software (Python).
Feb. 2015	Observation Intern <i>PMC Laboratory, Polytechnique (Palaiseau, France)</i> Discovery of the research activities of a laboratory in physics of condensed materials.

Languages

French - Native
English - C1
German - B2

Skills

Python
numpy, pandas, scipy, sklearn, cvxpy, tensorflow, pytorch...

R

LaTeX

Git

C++

Office 365

Research

Various research projects at Télécom Paris and MVA, Applied research at Axpo

Teamwork

8-student team project at Télécom Paris, Close-knit team environment at Learning Robots, Two-man tool development at Axpo

Autonomy

Rigor