

Léa MARINGER

 LeaMaringer |  Léa Maringer |  leamaringer.github.io |  lea.maringer@gmail.com

EDUCATION

Paris Dauphine University

Oct. 2023 - June 2024

Master MODO (Modelling, Optimization, Decision and Organization)

Paris, France

Modelling in Operational Research, Mathematical Programming, Preferences Modelling, Computational Complexity Theory, Algorithmic Game Theory, Stochastic Programming, Decision under Uncertainty.

CY Tech

Sept. 2021 - June 2024

MEng. of Applied Mathematics - Data Science specialization

Cergy, France

Statistics, Probabilities, Optimization, Complexity, Signal Processing, Time Series, Compressive Sensing, Procedural, Functional and Parallel Programming, Machine Learning, Artificial Intelligence etc. but also accounting, economics and ethics.

Lycée Jean-Moulin

Sept. 2019 - June 2021

B.Sc of Mathematics, Physics and Computer Science

Forbach, France

Advanced courses in Mathematics, Physics and Computer Science, to pass the highly competitive entrance exams, leading to the most prestigious schools of Science and Engineering in France called “Grandes Ecoles” .

EXPERIENCE

CoDALab - Polytechnic University of Catalonia

May. 2023 - Aug. 2023

Researcher & Data Scientist - Internship

Barcelona, Spain

I worked on fault detection in wind turbines using machine learning and domain adaptation. Especially, I studied real SCADA data from a wind turbine farm and data collected in the lab from a scaled Jacket-type wind turbine foundation.

namR

June 2022 - Aug. 2022

Data Engineer - Internship

Paris, France

My role was to explore, clean and analyse data from open data to produce useful and completed data about climate, green transition and energy retrofitting. I also worked on automating pipelines on data to lead to more reliability and to standardize some steps of data production process.

PROJECTS

Explainability of Deep Learning models in medical images (*Ongoing*)

Oct. 2023 - Present

End-of-study project. Exploring explainability methods to understand Deep Learning models predictions for a localization problem on hand images.

Statistic study of Google quarterly revenue

Oct. 2023

Differencing and seasonal differencing, modelling and forecasting with ARMA, ARIMA and SARIMA models, KPSS, Ljung Box, Shapiro-Wilk and Student's tests (R).

Markowitz Portfolio Optimization

Dec. 2022 - April 2023

Analytical solutions of optimization problems with different constraints, Monte Carlo simulations, numerical resolution algorithms applied to CAC40 assets and other portfolios.

TECHNICAL SKILLS

Languages

Python (Numpy, Pandas, Scikit-learn, TensorFlow, Scipy, Matplotlib, Seaborn, tkinter), SQL, R, OCaml, C, C++, bash, JavaScript, HTML, CSS, L^AT_EX

Software & Tools

Git, Excel, Dataiku, Microsoft VS Code, Anaconda

LANGUAGES

French: Native proficiency

German: Limited working proficiency

English: Full professional working proficiency

Spanish: Limited working proficiency