
Education

- 2022-2023 **Master of Science (MSc)**, *École Normale Supérieure (ENS)*, Paris, France
MVA (Mathematics, Vision and Learning) Statistical Learning, Convex optimisation, 3D computer vision, Object recognition, geometrical data analysis, medical imaging
- 2020-2023 **Master of Engineering (MEng)**, *ENSIIE- University of Paris-Saclay*, Évry, France
Applied mathematics: Statistical modeling, Regression methods, Data Analysis, Stochastic processes, Operational research, Analysis of partial differential equations
- 2020-2021 **Bachelor of mathematics**, *University of Paris-Saclay*, Évry, France
Probabilities, Statistics, Graph theory, Numerical analysis methods, Theory of measurement, Relational database design, Optimization
- 2017-2020 **Preparation for national competitive entrance exams leading to top French Engineering Schools**, *Lycée Kléber*, Strasbourg, France
MPSI/PSI*/MP*(in Paris)
- 2016-2017 **A-Level with highest honor**, *Lycée Lucien de Hirsch*, Paris, France

Work Experience

- 2023 **Data Scientist Consultant**, *Quantmetry - Part of Capgemini Invent*, 6 months, Paris, France
Mission at **Dassault Aviation**
- Data preparation and data analysis (**Pyspark**, **Pandas**)
 - Implementation of statistical models (**Bayesian methods** for multilevel modeling)
 - Implementation of Machine Learning models (**Random Forest**, **LGBM**, **Bayesian Logistic Regression**)
 - Delivery of commented code with documentation
 - Facilitation and preparation of workshops for business teams
- Internal R&D mission** involving the comparison of various Transformer-based models for **time series forecasting**
- Research and preparation of datasets (Transports and Energy) (**Pandas**, **Gluonts**, **Hugging Face**)
 - Implementation of several Deep Learning models based on Transformers (Autoformer, Informer, Temporal fusion transformation) (**PyTorch**, **Gluonts**)
 - Implementation of training and evaluation methods
 - Implementation of Machine Learning models (**LGBM**)
 - Configuration of multiple tracking tools (**MLflow**, **TensorBoard**)
 - Project configuration setup (**Hydra**)
 - Utilization of Git version control systems
 - Facilitation of internal meetings
 - Writing a blog article
- 2022 **Data Scientist Researcher**, *Cardiovascular Data Science (CarDS) Lab*, Yale-University, 4 months, New Haven, United-States
ECG signal analysis:
- Implementation of Fourier analysis to process portable ECG signals and reduce noise (**Pandas**, **Neurokit**, **Scikit-learn**, **SciPy**)
 - Implementation of Deep Learning models for ECG classification (**Tensorflow**, **PyTorch**)
 - Technical presentations to medical teams
- 2021 **Data Scientist**, *Datascientest*, 2 months, Paris La Défense, France
- Creation of exercises and course modules in Data Science and Machine Learning (**Pandas**, **Matplotlib**, **Seaborn**, **Scikit-learn**)
 - Creation of tests for various courses
 - Organizing a career workshop through video conferencing for learners
 - Writing three blog articles

- 2018 **Analyst**, *Galaxis Capital*, 2 months, London, United Kingdom
- Analysis of real estate data from various regions in Great Britain
 - Analysis of the company's investment plan in different start-ups

Volunteer Experience

- 2021-2022 **President of the Data-Science and AI club**, Évry, France
Leading an association of 70 members. Setting up of formations and projects, organisation of conferences and participation in events (meetings and exhibitions)
- 2020-2021 **Treasurer and Project Manager in the Junior Entreprise Diese**, Évry, France
Management of the budget of a structure of 20 people. Tax and social declarations. Supervision of an accountant and a chartered accountant. Editing of invoices. Management of mathematical and computer projects.
- 2020-2023 **Secretary-General of the humanitarian association Keep Rising**, Paris, France
Help for the underprivileged and disabled individuals.

Projects

- 2022-2023 **Project with a doctor in neuropediatrics**, Necker Hospital, Paris, France
Analysis and implementation of AI tools in neuropediatrics for the spinal muscular atrophy
- 2022 **Research project**, ENSIIE, Évry, France
Solving NP-hard graph spanning problems using kernelization, linear programming and machine learning
- 2021-2022 **Project in a neurological department**, Hospital Center Sud Francilien, Corbeil-Essones, France
Project manager of a team of 3 people to improve a software to generate patient records
- 2017-2019 **Work on Brownian motion**, Lycée Kléber, Strasbourg, France
Experiments and code realization in Python in order to follow with an electronical microscope and to study the Brownian motion of a microscopic ball
- 2017-2019 **Supervised personal work on aeronautics**, Lycée Lucien de Hirsch, Paris, France
Mechanical approach to study how planes fly. Work with the Patrouille de France

Other Competences

Coding

I am proficient in the following technologies and tools: Python (NumPy, SciPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, TensorFlow, PyTorch, Glueviz, Hugging Face Transformers, MLflow, TensorBoard, NeuroKit, OpenCV), R, PySpark, C/C++, SQL, Bash, AWS, Google Cloud Platform (GCP), PowerBI, and Google Analytics

Languages

French	Native	
English	C1	3-month internship in the US and a 2-week intensive English course in Oxford
Spanish	B2	

Honors & Hobbies

- Reward Medal of Excellence (2015, 2016, 2017)
- Reward Presentation at High School General Competitions (Mathematics and Physics)
- Sport Tennis competitions
- Pilot Flying lessons
- Theater Leading role in a theater play