

CHARLES OUAZANA

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EDUCATION

École des Mines

Master of Science; GPA 4.06/4.33

Saint-Etienne, France

2019 – 2023

- **Coursework:** Advanced Probability and Statistics, Machine Learning, Data and Time Series Analysis, Mathematical Exploitation of Numerical Simulators, Optimisation, Random Modeling, Partial Differential Equations, Micro-Economy, Econometrics
- **Projects:** ☐ **Insect identification** using fine-grained classification and segmentation ☐ **Nuclear medicine image synthesis** using deep learning particularly U-Net and GAN ☐ **Hurricane forecasting** using AI on time series and satellite data ☐ **Trading algorithm based** on technical analysis and AI on order book data using RNN
- **Societies:** Founder and President of Chess Mines, the chess society, and organisation of an inter-school tournament

Université Jean-Monnet

Bachelor of Sciences; GPA 4.0/4.0

Saint-Etienne, France

2020 – 2021

- **Coursework:** Measure Theory, Probability, Complex Analysis, Differential Calculus, Topology and Numerical Analysis

Lycée Fénélon

Classes Préparatoires aux Grandes Écoles

Paris, France

2016 – 2019

- **Coursework:** Mathematics, Physics, Computer science, Engineering Philosophy, Chemistry

WORK EXPERIENCE

Capital Fund Management (incoming)

Quantitative research intern

London, UK

May – Oct. 2023

Sandbar Asset Management

Quantitative research intern

Paris, France

May – Oct. 2022

- Time series forecasting and multi-modal model implementation
- Portfolio optimization and risk analysis
- Alternative data retrieve and analysis
- Bloomberg API with python

CIEMAT (Spanish Minister of Science)

Deep learning in plasma physics research intern

Madrid, Spain

Nov. 2021 – Apr. 2022

- Development of a generative model for data simulation (LSTM-GAN)
- Design of a deep learning algorithm for the detection of events in electrostatic potential time series measured in the TJ-II Stellarator (Magnetically Controlled Nuclear Fusion)
- Programming languages: Python, Julia

LVMH

Data Analyst intern

Paris, France

Jun. – Sep. 2021

- Analysis of Data from all Parfum Christian Dior stores and e-commerce
- Time series forecasting, Appetency score calculation using Machine Learning

Annapurna Pariwar

Volunteer

Pune, India

May – Nov. 2020

- Construction of a performance analysis tool for the microcredit activities and risk analysis of their assets
- Construction of a stress test for assessing the impacts of covid-19
- Working in a team of volunteer to link microinsurance and microfinance action

France Bénévolat

Volunteer mathematics tutor

Paris, France

Sep. 2019 – Jan. 2021

- Free tutoring for students experiencing academic disengagement caused by covid
- Mathematics tuition for students from 10th Grade to 3rd year BSc

SKILLS AND ACTIVITIES

- **Programming:** Python (pytorch, scikit-learn, OOP, sqlalchemy), SQL, R, Office, VBA, Bloomberg
- **Languages:** English, French, Spanish
- **Sports:** Tennis, Basketball, Skiing, Triathlon
- **Interests:** AI research, Financial Markets, Literature, Geopolitics, Option Trading, Online Chess (Top 1% on [Lichess](#))
- **Certifications:** Stanford University online ML Course, IBM Deep Learning with Pytorch, DeepLearningAI Course