

Baptiste Loyer

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EDUCATION

Imperial College London and Mines Pontois Institute GPA: 3.9 / 4.0

Double MSc/Meng – Mathematical, Computational Engineering and Quantitative Finance

Mathematics, Stochastic Calc., Statistics, Volatility Trading & Derivatives, Algo Trading, Options Theory, Machine Learning

Sep 2020 – Mar 2025

London, UK

The Hong Kong University

MSc – Financial Engineering and Computer Science

Machine Learning, Financial Engineering and Risk Management, Algorithmic Trading, Blockchain

Jan 2022 – Jun 2022

Hong Kong, HK

Scientific Preparatory Class and Paris University

Double BSc/BEng – Pure & Applied Mathematics, Computer Sciences and Physics

Pure Mathematics, Physics, Mechanical Engineering, Chemistry, Philosophy

Sep 2017 – Jul 2020

Paris, FR

- ◊ Research: (Python) Pricing and Trading Equity Derivatives using Machine Learning & Deep Learning
- ◊ Research: (Python) Pair-Trading Strategy using K-Means Clustering Algorithm
- ◊ Research: (Python) Satellite emitter heat map full dimension resolution using Finite Difference Method

WORK EXPERIENCE

CdR Capital - Multi-Strat Systematic Fund

Cross Asset Quantitative Trader

Feb – Aug 2024

London, UK

- ◊ Conducted daily execution on equities, commodities, fixed income, futures and options across US, EU and Asian exchanges (\$5M. daily)
- ◊ Built a ML based live tool in Python to optimize execution prices through intraday cross asset pattern research
- ◊ Delivered alpha research on commodities, FIS and worked on relative value volatility and stat arb strategies on equities/indices

Morgan Stanley

Quantitative Trader - Off-Cycle Program

Jul 2023 – Feb 2024

London, UK

Structuring Team - Exotic and Hybrids Options

- ◊ Automated daily tailored pricing of exotic and hybrids options for buy-side clients
- ◊ Developed a risk management live tool for Senior exotic equity derivatives traders
- ◊ Worked on differential machine learning to calibrate the stochastic local volatility parameters (VoV, Speed of Mean Rev., Mean)

QIS Team - Volatility Strategies

- ◊ Automated values and indicators generation on stocks via creation of a Python library
- ◊ Worked on backtests and research of relative value volatility strategies (Dispersion Trading, Skew Trading, Tail Trading)

CM-CIC - Banque Européenne Credit Mutuel

Quantitative Analyst (Received Return Full-Time Offer)

Jun – Aug 2022

France

- ◊ Automated statistical methods to identify and measuring risk (VaR)
- ◊ Analyzed credit risk by quantifying scenarios using Bayesian networks and modelling risks using Monte Carlo simulations
- ◊ Presented extensive analysis and implemented solutions that led to a 5% reduction in computation time for the department

ACHIEVEMENTS

Morgan Stanley Hackathon

- ◊ Ranked 1st over 160 top UK uni. students and was offered internships in the front office

2023

London, UK

Imperial College Student Investment Fund

CIO Quantitative Strategies

Sept 2022 – Jun 2023

London, UK

- ◊ Launched live volatility-scaled cross-sectional strategy on US Equity Sectors ETFs, with a value and hedge components
- ◊ Selected CIO from among 200 Imperial students, managed 6 senior analysts, 30 junior analysts, 5 strategies with an AUM of 100,000€

HKU Blockchain & Trading Group

Quantitative Trader

Jan – May 2022

Hong Kong, HK

- ◊ Backtested strategies across cryptocurrencies using Python, participated to ICO and DeFi investing

Mathematics Olympiad & radiography conference

- ◊ Finalist, presented to leading professors, represented France, and received an award from a nuclear research chairman

May 2017

Corsica, France

PROJECTS

- ◊ (Python) LSTM and Transformers based strategy on US Equities and ETFs (active SR: 2.7) 2024
- ◊ (C++) Finite Difference Pricing vs Monte Carlo: Overview & Comparison 2023
- ◊ (Python) Live Strategies - Momentum, Value, Derivatives 2022

IT skills and Certifications

Programming Skills: Python, C++, R, Java, Matlab, SQL, VBA, Kdb, Tableau, Power BI

C++ Imperial College Certification, Bloomberg Market Concepts, Lifeguard Degree (summers 2017-18-19)

Languages

- ◊ English (native), French (native), Spanish (fluent), Mandarin (basic)

INTERESTS

- ◊ Chess, Poker, Rugby at National level, Powerlifting, Club flying, Adv. surf, Scuba diving, Ski golden arrow, Charity Member [Navisu4d.org](https://navisu4d.org)