Bryan DELAMOUR

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EDUCATION

University Paris Dauphine-PSL

Paris, France

Master 2, Mathematics Research Master's degree -MASEF, Financial Mathematics Major

2020-2021

Python projects:

- · American, European Options, and Worst-Of Autocallables Pricing, using Monte Carlo and Finite Difference Methods.
- Asian, Lookback, and Digital Options Pricing, using: "Multilevel Monte Carlo Path Simulation." Michael B. Giles, Oxford Man Institute of Quantitative Finance. (2008)

University Paris Dauphine-PSL

Paris, France

2019-2020

Master 1, Mathematics – Statistics Major

Master's thesis: "Correlation between toponymy and geography of French municipalities" (Implemented in R), supervisor Robin Ryder C++ project: Vector, Matrix & Tensor classes implementation

University Paris Dauphine-PSL

Paris, France

Bachelor of Science, Mathematics—Probability Major

2016-2019

Python project: Double Pendulum Chaos Motion

R project: Random Variables Simulation Methods, Variance Reduction Methods

University of Greenwich

London, United Kingdom

2015-2016

Master of Science, Banking & Finance (Distinction)

Master's thesis: "Political risk and foreign exchange market: an exploration of the brexit impact on the sterling", supervisor Lianfeng Quan

IPAG Business School

Paris, France

Master 2. Financial Markets

2011-2016

Master 1, Corporate Finance

Waterford Institute of Technology

Waterford, Ireland

2013-2014

Erasmus, Economy

Paris, France

Lycée Charles Baudelaire Scientific Baccalauréat, Mathematics Major (Honors)

RESEARCH PROJECTS

Multilevel Monte Carlo Path Simulation

2020-2021

Implemented with Python the Multilevel Monte Carlo method and reproduced Michael B. Giles' results

- Multilevel Monte Carlo improves the classic Monte Carlo method by reducing the computational complexity
- For a same level of precision, the multilevel method runs 10 to more than 1000 times faster
- Priced Asian, Lookback, Digital, and European Options
- Implemented Black-Scholes and Heston models, Milstein and Euler discretization schemes

2020-2021

Implemented with Python a 2 assets worst-of autocallable pricer (Eurostoxx50 & CAC40)

- Each asset has its own coupon value, its own paving and redemption barriers
- Used historical correlation, implicit volatility, Black-Scholes model

Correlation between toponymy and geography of French municipalities

2019-2020

Implemented with R different machine learning algorithms to predict French cities' location using only their toponomy

- Data: 35000x10
- Logistic regression to predict regions, random forests for latitude/longitude
- Models prediction accuracy exceeded 90% in some areas of France

SKILLS

Language: French (Mother tongue), English (Fluent), Persan (Fluent), Spanish (Professional proficiency)

IT: R, C++, Python, LaTeX, Microsoft Office (Excel, Word, PowerPoint)

Academic: Probability, Statistics, Stochastic calculus, Monte Carlo methods, Black Scholes model, Machine Learning in finance

Esport: Mobile Legends: Luo Yi Champion, 293 World Rank, Top 10 France, 1st Paris

WORK EXPERIENCE

Killik & Co Analyst

London, United Kingdom

Apr.-Sept. 2015

Front Office Analyst at KILLIK & Co, first French intern in the firm

- Assisted 4 stockbrokers who trade and advise on a wide range of instruments including equities, corporate bonds, gilts, funds, derivatives and CFDs Produced monthly reports of the 10 branches' trades. Implemented macros on excel to deal with heavy spreadsheets
- Conducted portfolio analysis and reviewed asset class weighting with a focus on Investment trusts and Unit trusts
- Formulated reports and did presentations of investment opportunities and prominent equities identified from personal research and study of
- Regularly attended meetings with companies or fund managers to get updates or IPO presentations