

Cristian Cioria

Quantitative Analyst

📍 London, United Kingdom

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EXPERIENCE

Entrepreneur

Costi & Sons Ltd

📅 05/2023 – Present 📍 London, United Kingdom

- **Launched and managed** a transport company
 - Negotiated partnerships and managed business risks.
 - Handled budgeting and operational logistics to optimize profitability.
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Junior Data Scientist

Buhler UK Ltd

📅 01/2019 – 09/2020 📍 London, United Kingdom

- Produced **Deep Learning** classification models for Quality Control applications
 - Developed data acquisition framework and **interactive dashboards** for near real-time analytics.
 - Developed Flask based web app to control machine alerts & produce .pdf reports.
 - **Data Analysis** on internal databases to assess business opportunities
 - Programmed a **python API** for company proprietary machine communication protocol
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EDUCATION

MSc (Laurea Magistrale) in Theoretical Physics

The University of Bologna

📅 09/2021 – 04/2023 📍 Bologna, Italy

- Thesis: A Monte Carlo approach to fractional Brownian motion (First class equivalent grade)
 - Researched Fractional Brownian Motion and **rough volatility models** in financial mathematics, applying **Monte Carlo** methods to assess the efficiency of the Euler discretization scheme for the **Rough Heston** model. Compared Euler implementation with moment matching schemes for **option pricing**, evaluating its convergence and practical usability in rough volatility modeling
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MSc Theoretical Physics

The University of Edinburgh

📅 09/2020 – 09/2021 📍 Edinburgh, Scotland

- Thesis: Scattering Amplitudes & Black Holes (First class)
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Bsc Physics with Theoretical Physics

Imperial College London

📅 09/2015 – 06/2018 📍 London, United Kingdom

- Awarded First class

SUMMARY

Quantitative professional with a master's in Theoretical Physics and a strong foundation in data science, stochastic modeling, and algorithm development. Experienced in Monte Carlo simulations, predictive analytics, and data-driven solutions. Skilled in Python, financial modeling, and risk analysis, with an entrepreneurial and problem-solving mindset.

SKILLS

Programming Languages :

Python
Javascript
Git Bash
HTML & CSS
SCSS
NoSQL & SQL

AI & Machine Learning Frameworks :

Sklearn
Keras
Tensorflow

Finance Skills : Data Visualization :

Derivatives pricing
Interest Rate Models
Portfolio Optimization
Stochastic Volatility modelling

Pandas
Seaborn
Chart.js
D3.js
Matplotlib
Plotly

Statistical Skills :

Stochastic calculus
Time series analysis
Numerical Methods
Probability theory

Software Skills :

Postman
Office 365
Nginx
NodeJs
Docker

FREELANCE

- Transport Manager Consultant
- Web developer
- Physics & Mathematics Private Tutor

OTHERS

- Videomaker
- Podcast hobbyist
- Algorithmic art hobbyist