LLUIS SALVAT NIELL

EDUCATION

The University of Manchester

September 2020 - June 2024

MMathPhys (Integrated Master's Degree, Joint Honours) Mathematics and Physics

- · Grade: First Class Honours Expected upon Graduation.
- · Relevant Year 3 Content: Regression Analysis, Mathematical Modelling in Finance and Scientific Computing.
- · Department of Physics Entrance Scholarship.
- · Member of the Algorithmic Trading Society.

Fundacio Collserola September 2018 - June 2020

Spanish Baccalaureate (Mathematics, Physics, Chemistry and Biology)

- · Grade: 9.72/10, Distinction (95th Percentile of Academic Performance).
- · Research Project: "The Retail Price Variability of Consumer Goods in Barcelona" (Grade: 10/10).
- · 2x Winner of the Poetry Contest.

PROFESSIONAL EXPERIENCE

The University of Manchester

June 2022 - October 2022

Computational and Financial Mathematics Research Assistant

- · Worked under the supervision of Dr Robert Gaunt and co-authored a research paper pending publication.
- · Researched the properties of the GH distribution and its applications to the modelling of financial returns.
- · Computationally verified the optimality of the convergence condition derived in Gaunt and Reinert (2021).

Citadel & Citadel Securities

April 2022

Discover Citadel Europe Program

- · Attended talks by the Global Head of Business Development, other senior executives and recent graduates.
- · Networked with professionals across quantitative research, software engineering and trading.

Marlex Human Capital

January 2022 - June 2022

Machine Learning Engineer, Part-Time (20h/Week)

- · Developed an NLP-based classification algorithm for CV scraping fine-tunning RNN and BERT models in PyTorch.
- · Trained a Random Forest model to predict the required credit facility with a 97% accuracy.
- · Reported directly to the managing director of the executive search division.

Jane Street September 2021

London Preview Program

- · Learned how traders and technologists apply mathematics and computer science in the financial markets.
- · Listened to a new graduates panel in which they explained their backgrounds and offered valuable insights.

Nieper

June 2021 - September 2021

- Financial Data Analyst, Internship
- · Developed a multivariate regression valuation model in Python focusing on the Barcelona property market.
- · Assembled a cash flow calculator to increase efficiency when evaluating potential buy-to-let acquisitions.
- · Performed a risk assessment and suggested a modification in the company's balance sheet.

March 2021 - March 2022 **MyTutor**

Academic Tutor, Part-Time (5-10h/Week)

- · As part of the MyTutor's Schools Programme, I tutored GCSE Maths and Science to disadvantaged pupils.
- · Maintained a 100% attendance rate and received excellent feedback from my pupils.

ADDITIONAL INFORMATION

Projects: Normal Random Variables Comparison, XGBoost Stock Price Prediction and EMA Crossover Backtester.

Technical Skills: Python, C++, R, MySQL, NumPy, Pandas, Matplotlib, PyTorch, Scikit-Learn and XGBoost.

Knowledge: ML/DL/NLP, Data Structures and Algorithms, Finance, Quantum Mechanics and Philosophy.

Online Courses: Bloomberg Market Concepts, Akuna Capital Options 101 and Hugging Face Course.

Languages: English (C2 Pass at Grade A), French (A2), Spanish (Native) and Catalan (Native).

Volunteering: Data Scientist at Fundacio Girona Est (October 2021 - Present).