Corey Pritchard

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🏛 EDUCATION

UNIVERSITY OF SOUTHAMPTON
SEPT 2021 – JUN 2025

MASTER OF MATHEMATICS, OPERATIONAL RESEARCH, STATISTICS AND ECONOMICS (MMORSE)

- Expected to graduate with First-Class Honours
- Dean's List Award for outstanding academic achievement

Undergraduate Dissertation

A Blackjack-Inspired Approach to Portfolio Optimisation

Master Thesis

A Regime-Switching approach to Option Pricing with ARIMA-GARCH Dynamics

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BRISTOL GRAMMAR SCHOOL
SEPT 2019 – JUN 2021

- **A LEVELS**

Maths: A*
Economics: A
Physics: A
Further Maths AS: A

THE CASTLE SCHOOL THORNBURY
SEPT 2014 – JUL 2019

- **GCSEs**

Computer Science, Mathematics, Business, Physics, Chemistry, Biology, English Literature, English Language, Geography, Religious Studies, French

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💼 PROFESSIONAL EXPERIENCE

EVERPAY
JULY 2024 – PRESENT
Internship: Summer 2024, followed by part-time consultancy contract
AI PROGRAMMER – PRODUCT DEVELOPER

- Advised senior management on the **benefits of Artificial Intelligence** (AI) and its application to improve business efficiency, fostering a better understanding of AI's role in driving innovation.

- Collaborated with senior leadership to **identify key areas for process improvement**, proposing actionable strategies to streamline operations and increase overall productivity.

- **Implemented software solutions** that significantly improved day-to-day workflows, such as automating data entry and payment processing systems.

- Led the expansion of process improvements across various business functions, driving efficiency gains in operations.

- Due to the impact of my work, Everpay offered me a **part-time consultancy contract** (20 hours/month) for the remainder of my Master's program, enabling me to continue contributing to the business while balancing my academic responsibilities.

- Currently supporting the business in refining key workflows, including lead generation and automating operations processes, contributing to Everpay's goal of expanding its tech-driven solutions.

SOUTHAMPTON STUDENT EQUITY FUND
SEPTEMBER 2023 - PRESENT

QUANTITATIVE RESEARCH TEAM LEAD

- Collaborated with team members to implement quantitative models using **Python**.

- Mentored a team of ambitious junior quants to develop their skills in quantitative research.

- Experimented with advanced machine learning techniques, including **CNN–LSTM predictive modelling.**

</> TECHNICAL SKILLS

PROGRAMMING LANGUAGE

- Highly proficient: Python
- Proficient: C++, C#, Julia, MQL4, R, STATA

QUANTITATIVE ANALYSIS

- Monte Carlo Simulations | Stochastic Processes | Principal Component Analysis | Machine Learning

- Experience in model development, including **pricing** and **volatility models**, across a range of asset classes.

- Developed predictive models for implied probabilities and betting odds in **sports markets** using **logistic regression**, then enhanced performance using **XGBoost** techniques.

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(8) PERSONAL ATTRIBUTES

INQUISITIVE AND ANALYTICAL: Strong research mindset with a focus on solving complex quantitative problems through innovative solutions.

COLLABORATIVE TEAM LEADER: Proven ability to foster collaboration and clear communication, driving team success in high-stakes environments.

AMBITIOUS AND STRATEGIC: Thrives in challenging environments, consistently aiming for excellence and optimal outcomes in all projects.

AGILE AND ADAPTABLE: Demonstrates the ability to manage multiple priorities effectively, balancing rigorous academic workload with demanding professional responsibilities.

LIFELONG LEARNER: Driven by a deep commitment to continuous learning and personal development, inspired by Tony Robbins' Personal Power and Get the Edge programs.