

# AMIYA JAMES TAGGART

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## Profile

An experienced Machine Learning Analyst with a first-class-honours Master's degree in Mathematics from Imperial College. Specialised in data analysis, research methods, and algorithmic automation. Seeking to leverage my strong problem solving and analytical skills in a captivating role that promotes professional development and innovation using artificial intelligence.

## Education

**Imperial College London** | *MSci Mathematics, First Class Honours* **Sep. 2019 – Aug. 2023**  
Completed modules relevant to quantitative and corporate roles throughout, including Probability for Statistics, Statistical Modelling, Optimisation, Methods for Data Science, Computation, and Object Oriented Programming.

**Manchester Grammar School** | *A Levels, GCSEs/IGCSEs* **Sep. 2012 – June 2019**  
4 A\*s at A Level in Maths, Further Maths, Physics, and Chemistry. 11 A\*s at GCSE/IGCSE including A\* with Distinction (A<sup>+</sup>) in Further Maths. Distinctions in ABRSM Grade 7 Piano and Grade 5 Music Theory.

## Experience

**Machine Learning Analyst** | *Contractor, Canbury Insights, London* **Dec. 2023 – Jan. 2024**  
Developed three Python tools using Pandas and the OpenAI API to automate research and analysis across sustainability bonds, global regulatory policies, and government consultations; eliminating the need for extensive analyst teams.

**Professional Wait Staff** | *Rhubarb Hospitality Collection, Royal Albert Hall* **Oct. 2021 – Aug. 2022**  
Improved revenue by upselling and suggestive selling in a fine-dining setting. When faced with frequent wrong orders and delays, I took charge of the 'pass' between kitchen and servers, both eliminating order errors and cutting delays by 50%.

**Maths and Science Tutor** | *Self-Employed, London* **Sep. 2018 – Aug. 2021**  
Offered custom tutoring for GCSE and A-Level students both in-person and via Microsoft Teams. By adapting to individual learning paces and simplifying complex subjects, students grades improved from 5 to 7 in GCSEs and C to A in A-Levels.

**Corporate Finance Work Shadowing** | *KPMG, Manchester* **July 2018 – Aug. 2018**  
Compiled financial histories for 83 MediaCityUK companies, using Excel to rank them by project relevance. I presented key insights via PowerPoint, deepening my audit understanding, and improving the firm's due diligence and client selection.

## Certifications

**Financial Engineering and Risk Management** | *Columbia University via Coursera* **Oct. 2023 – Nov. 2023**  
Completed an 80-hour intensive course in financial engineering and risk management. Honing skills in derivative pricing, Python-based computation, and risk measures, along with attaining expertise in CDOs, ETFs, and Black-Scholes.

**Financial Markets** | *Yale University via Coursera, with Honours* **Sep. 2023 – Oct. 2023**  
Became well-versed in risk management, enterprise development, and financial leadership. Learned current practices in securities, insurance, and banking, while deepening understanding of behavioural finance with a focus on societal impact.

## Projects

**Theoretical Physics Dissertation** **Oct. 2022 – June 2023**  
Distilled data from 30+ papers into a 41-page dissertation and oral presentation tackling an old Yang-Mills problem. I established clear conventions and a novel approach, leading to promising early-stage results and a first-class grade of 79%.

**Quantum Mechanics Project** **May 2021 – June 2021**  
I assumed leadership for a group project and guided the team from planning to presentation. This included approving ideas, setting expectations, and coordinating peer contributions, resulting in a cohesive project with a high grade of 85%.

**Statistical Modelling Project** **May 2020 – June 2020**  
To model the pandemic, I created a stochastic model with NetworkX and expanded upon the SIR model. I concluded that total containment was impossible, so we must slow the spread to lower pressure on hospitals, earning an 87% grade.

## Skills

**Core Competencies** | Microsoft Visual Studio Code, Jupyter, Git, Backend Development with Python

**Programming** | Python, NumPy, Pandas, OpenAI (API), Requests, TensorFlow, NetworkX

**Presentation** | HTML/CSS, LaTeX (inc. Beamer), CSV Format, Microsoft Excel, PowerPoint, Teams

**Languages** | 2020 Spanish Level 3 Award (A-Level equivalent), 2021 Russian Level 2 Award (AS-Level equivalent)