

Christian Garry

MSc Scientific Computing | Probability · Statistics · Optimisation | C++/Python | Quantitative Methods

christiangarry.southafrica@gmail.com | +44 79 3232 6827 | christiangarry.com | linkedin.com/in/christian-tt-garry

Education

MSc Scientific Computing & Data Analysis (AI for Engineering) Durham University	Durham, United Kingdom Sep 2025 – Present
MEng Electronic Engineering Durham University	Durham, United Kingdom Sep 2020 – Jun 2024

Key Skills

Maths & Optimisation: Probability & statistics; Numerical methods; Convex/non-linear optimisation; Decision-making under uncertainty; Experimental design & fast iteration.

Systems & Performance: HPC/GPU; Simulation & automated testing; Networking (IEC 60870, DNP3).

Machine Learning: Bayesian inference; Regression & classification; Unsupervised learning (clustering, PCA); Deep learning for engineering; Model evaluation & calibration; robustness & traceability; RAG/LLM pipelines.

Programming: C++, Python, SQL, C, C#, MATLAB.

Experience

Graduate Communications Engineer Siemens PLC	Hebburn, United Kingdom Sep 2024 – Present
<ul style="list-style-type: none">Built latency-sensitive C/C++ stacks for industrial relays (TCP/IP, IEC 60870, DNP3).Designed Retrieval-Augmented Generation (RAG) pipeline (Python, Qdrant, LLM) with retrieval evaluation and end-to-end tracing/diagnostics; cut engineer time-to-answer by over 99%.	
Industrial Tutor Durham University, Department of Engineering	Durham, United Kingdom Sep 2025 – Present

Projects & Research

Alternative Digital Asset Markets Research Independent Project	Durham, United Kingdom Sep 2024 – Present
<ul style="list-style-type: none">Analysed liquidity, volatility, and arbitrage in alternative digital asset markets.Built index & risk models (Sharpe, Sortino) with execution-aware backtests (Python/C++).	

Leadership, Activities & Interests

Leadership: Bishops Diocesan College Fencing Team Captain; Durham Fresher Representative (2022–23).

Activities: Durham University Fencing Team; Counter-Strike (team strategy); Boxing (Student Fight Night).

Interests: Market analysis projects (alternative digital assets); investing/trading strategy exploration; AI/software experiments; real estate and rental markets.

Achievements: Weldon le Huray Fencing Scholarship (2020–24); South Africa U17 Fencing Champion; President's Award (Gold).