

Christian Garry

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

MSc Scientific Computing & Data Analysis (AI for Engineering) Durham University	Durham, United Kingdom Sep 2025 – Present
<ul style="list-style-type: none">• Modules: Bayesian ML (Foundations/Unsupervised; Regression/Classification), Optimisation & Control for AI, Deep Learning for Engineering, HPC/GPU Programming, Performance & Vectorisation.	
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

Industrial Tutor Durham University, Department of Engineering	Durham, United Kingdom Sep 2025 – Present
<ul style="list-style-type: none">• Lead weekly design tutorials; mentor teams on scope, feasibility, Gantt planning, and design reviews.• Mark feasibility and final submissions; deliver quantitative, structured feedback on clarity, rigour, and justification.• Coach teams through feasibility-driven decision-making: surface assumptions and specifications, test them, and retire designs that fail cost, risk, or performance constraints.	
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%.	

Projects & Research

Alternative Digital Asset Market Analytics & Trading Research Independent Project	Durham, United Kingdom Aug 2025 – Present
<ul style="list-style-type: none">• Ongoing research into pricing, liquidity, and market microstructure across major CS2/CS:GO marketplaces.• Building a unified data pipeline and normalised dataset for robust, execution-aware backtesting.	
Silicon Carbide JFET CPU Master's Dissertation	Durham, United Kingdom Oct 2023 – Apr 2024
<ul style="list-style-type: none">• Built custom 4-bit CPU in LTspice from SiC JFETs for extreme temperature and radiation environments.• Developed complete toolchain: C-like compiler (C++), assembler, and Python automation scripts.	

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).