

Edward Williams

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EDUCATION

UNIVERSITY OF OXFORD, Worcester College, DPhil in Computer Science Oct. 2025 - Present
Ongoing PhD in Machine Learning, supervised by Dr. Mark van der Wilk
Funded by Laboratory for AI Security Research (LASR) scholarship

UNIVERSITY OF CAMBRIDGE, St. Catharine's College, Part III Mathematics MAST Oct. 2022 - Jun. 2023
Grade: **Distinction**
Key Modules: String Theory, Advanced Quantum Field Theory, Supersymmetry, General Relativity, Black Holes

IMPERIAL COLLEGE LONDON, MEng Mathematics and Computer Science Sept. 2018 - Jun. 2022
Overall grade: First Class Honours (**83.87%**) - ranked on the Dean's List (top 10% of year) in Years 2, 3, and 4.
Achieved highest mark in year in Year 3 (**89.75%**)
Key Modules (%): Machine Learning (97), Robotics (97), Compilers (96), Software Engineering (95), Type Systems (94)
General Relativity (100), Special Relativity and Electrodynamics (98), Algebra III (84), Statistics (82)

WESTMINSTER SCHOOL Aug. 2013 - Jun. 2018
A Level Results: 4 A*s in Mathematics, Further Mathematics, Physics, and Economics. GCSE Results: 12 A*s

EXPERIENCE

Software Engineer, Jump Trading LLC September 2023 - June 2025
• Working in core engineering team, pipelining exchange reference data and analysing research datasets

CTO / Lead Software Engineer, Curv Ltd. February 2022 - February 2025
• CTO of start-up developing wearables for posture tracking. Won Kickstart Global Incubator and Accelerator programs

Software Engineer Intern, Jump Trading LLC July 2022 - September 2022
• Completed a 10 week internship developing pipelines to onboard market reference data from new financial exchanges and sports betting markets. Worked closely with several trading and engineering teams. Offered full-time role

Software Engineer Intern, Bloomberg L.P. June 2021 - September 2021
• Completed a 4 month placement in the FX & Commodity Derivatives Pricing team in Financial Analytics developing a new Python API for options pricing, as well as picking up various other tickets. Offered full-time role

Undergraduate Researcher (UROP), Imperial College London, Dept. of Computing July 2020 - August 2020
• Awarded competitive EPSRC Bursary for research project investigating generation of counterfactual explanations and adversarial examples for neural networks and Bayesian classifiers, supervised by Professor Francesca Toni

Undergraduate Researcher (UROP), Imperial College London, Dept. of Mathematics June 2019 - August 2019
• Group research project entitled "Fourier Transforms in Algebraic Settings", supervised by Dr. Travis Schedler. Worked closely in team of three, studying advanced areas of pure maths such as representation theory and functional analysis

NOTABLE PROJECTS

Learning to Plan from Curiosity - Imperial College London | PyTorch, MuJoCo October 2021 - June 2022
MEng thesis supervised by Dr. Edward Johns with Imperial's *Robot Learning Lab*. Developed a novel framework for RL agents to learn goal-conditioned policies from autonomous intrinsically motivated exploration. Achieved a mark of 82%

DeFi Liquidation Bot - Imperial College London | Go, Solidity October 2020 - January 2021
Worked in team of six to build a highly concurrent, optimised bot, written in Go, to liquidate unhealthy loans on lending protocols across the Ethereum blockchain. Overall mark of 87% and won a CPP Prize, given to top five 3rd year group projects

Pintos Operating System - Imperial College London | C, QEMU January 2020 - March 2020
Worked in a team of four to implement functionalities of the Pintos operating system, including priority scheduling, multilevel feedback queue scheduling and system call functionality. Written in C and gained an overall mark of 88%

SPORTS/OTHER INTERESTS

Football | Old Westminsters FC 1st XI; Worcester College Oxford 1st XI 2021 - Present, 2025 - Present
| Helped raise over £17,000 for charity playing in a 24-hour football marathon 2018

Squash | Westminster School Squash 1st Team Captain; St. Catharine's College 1st Seed 2016 - 2018, 2022/23

Pool | Two-time Winner of Pool Cup, Westminster School; Cambridge University Pool Team 2016 - 2018, 2022/23

Languages: Python, Rust, Java, Haskell, Scala, Go, C/C++, Dart, HTML/CSS, and JavaScript

Interests: Keen linguist, learning several languages, such as Brazilian Portuguese and Norwegian, 3000+ day Duolingo streak

Other technical skills: Git, Linux, LaTeX, PyTorch, NumPy, Pandas, Django, ANTLR, Vim/Emacs, (C)Make, and Office