

# Emilian Joseph Bowry

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<b>Education</b>	<b>Trinity College, University of Cambridge</b> <i>Engineering Tripos</i> , 2020-2025	
	<b>Judge Business School, University of Cambridge</b> <i>Accelerate Cambridge</i> , August 2022-July 2023	
<b>Experience</b>	<b>Software Developer</b> Remote	AI Compatible August 2025 - Current
	<ul style="list-style-type: none"><li>• Developing an automated privacy policy analysis model, this included:<ul style="list-style-type: none"><li>– Creating a Suprathreshold Stochastic Resonance (SSR) pipeline to mitigate high-dimensional hubness, effectively amplifying the signal-to-noise ratio of semantically related clusters.</li><li>– Developing an unsupervised probabilistic consensus engine, integrating Expectation-Maximization (EM) and Monte Carlo simulations and perturbation analysis to model the topological properties of the embedding space.</li></ul></li><li>• Redeveloping website, full-stack web development using: Typescript, React Python, express.js, Prisma, PostgreSQL, mongoDB.</li><li>• Managing cloud infrastructure, including virtual machines and networking.</li></ul>	
	<b>Co-founder</b> Cambridge	Luucid.tech August 2022 - October 2023
	<ul style="list-style-type: none"><li>• Created novel electrochemical and material mechanisms for detecting spiking-agents in beverages.</li><li>• Grant writing to organising a UK wide drug spiking prevalence assessment.</li></ul>	
	<b>Software Development and Business Analysis Intern</b> Nottingham	Atomic Media April 2022 - August 2022
	<ul style="list-style-type: none"><li>• Full stack web development using a variety of languages and technologies.</li><li>• Analysed new business opportunities and ventures, writing insight articles.</li><li>• Led skill days, teaching other developers the low-end networking implementations of the technologies they implement: <a href="https://github.com/emilbowry/NetworkProgrammingLesson">https://github.com/emilbowry/NetworkProgrammingLesson</a></li><li>• Organised the weekly cyber-security brief about emerging threats and vulnerabilities.</li></ul>	
<b>Projects and Additional Experience</b>	<b>Phasor Average Estimator:</b> Developed a scale-invariant, Phasor-based Statistical Model to solve hardware jitter and Inter-Symbol Interference (ISI), in a Molecular Communication system.	
	<b>Neural Data Analysis:</b> Built a simulation system for Lateral Intraparietal Cortex (LIP) neurons to evaluate and test different statistical models for neuron impulses. Used tools, Hidden Markov Models (HMMs), Peri-Stimulus Time Histogram (PSTH), Fano-Factor. Used Bayesian Inference to evaluate model brittleness and mismatch.	

**Integrated Design Project:** Group Project building a self-navigating robot - my contributions to the software led us to coming 2nd place in a University wide robotics competition.

## Published and Open Source Software

**Plotting Tools:** <https://github.com/emilbowry/Plots>  
<https://pypi.org/project/plottingtools-emilbowry>

Extension of the python Plotly library to conveniently visualise 4-dimensional datasets. Using metaprogramming techniques to create a robust and adaptable framework.

**Code Editor:** <https://github.com/emilbowry/editor>

A fork of Microsoft VSCode, code editor with telemetry and LLM integrations removed, along with some additional features.

**Monochrome:** <https://github.com/emilbowry/monochrome>

Fork of the Black code-formatter.

## Awards and Achievements

**Goldman Sachs:** Awarded a scholarship and Engineering Spring week.

**Imperial College London:** Awarded the President's Scholarship to Imperial College London, given to the top 112 candidates that demonstrated the “highest academic excellence at interview”.

Referees available upon request