

# Emilian Joseph Bowry

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## Education

**Trinity College, University of Cambridge**  
*Engineering Tripos*, 2020-2025

**Judge Business School, University of Cambridge**  
*Accelerate Cambridge*, August 2022-July 2023

## Experience

**Software Developer**  
Remote

AI Compatible  
August 2025 - Current

- Developing an automated privacy policy analysis model, this included:
  - Creating a Suprathreshold Stochastic Resonance (SSR) pipeline to mitigate high-dimensional hubness, effectively amplifying the signal-to-noise ratio of semantically related clusters.
  - 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.
- Redeveloping website, full-stack web development using: Typescript, React Python, express.js, Prisma, PostgreSQL, mongoDB.
- Managing cloud infrastructure, including virtual machines and networking.

**Co-founder**  
Cambridge

Luucid.tech  
August 2022 - October 2023

- Created novel electrochemical and material mechanisms for detecting spiking-agents in beverages.
- Grant writing to organising a UK wide drug spiking prevalence assessment.

**Software Development and Business**  
**Analysis Intern**  
Nottingham

Atomic Media  
April 2022 - August 2022

- Full stack web development using a variety of languages and technologies.
- Analysed new business opportunities and ventures, writing insight articles.
- Led skill days, teaching other developers the low-end networking implementations of the technologies they implement:  
<https://github.com/emilbowry/NetworkProgrammingLesson>
- Organised the weekly cyber-security brief about emerging threats and vulnerabilities.

## Projects and Additional Experience

**Phasor Average Estimator:** Developed a scale-invariant, Phasor-based Statistical Model to solve hardware jitter and Inter-Symbol Interference (ISI), in a Molecular Communication system.

**Neural Data Analysis:** 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