

# Emilian Joseph Bowry

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## Education

### Trinity College, University of Cambridge

*BA, Engineering Tripos*, 2020-2025

Note: Degree awarded unclassified due to medical intermission preventing completion of Part IIB

### Judge Business School, University of Cambridge

*Accelerate Cambridge*, August 2022-July 2023

## Experience

### Software Developer

Remote

AI Compatible  
August 2025 - Current

- **Regulatory Analysis Engine:**

- Adapted and improved state-of-the-art research on data extraction from privacy policies.
- Devised an unsupervised semantic equivalence detection model of legal statements.
- Re-derived a recently published technique of ‘Random k Conditional Nearest Neighbours’

- **Redeveloping full-stack website:**

- Style generation: client-side background image generator, CSS geometry engine, generalisation of CSSTypes library
- Direct style-sheet injection to handle high-performance style changes, by prevent re-rendering by modifying css rules and not the elements.
- PDF generator that implements the ‘ISO 32000’ PDF specification to generate PDFs from java objects and/or json
- Contextual telemetry analysis, creates interaction based profiles utilising site-entry points, device and location data to profile user events.
- Managing cloud infrastructure, including virtual machines and networking.
- Devising and prototyping HTTP and API servers from scratch using Rust, to learn the fundamentals
- Managing backend API with express.js, Prisma, PostgreSQL, mongoDB.

### Co-founder

Cambridge

Luucid.tech  
August 2022 - October 2023

- Created novel electrochemical and material mechanisms for detecting spiking agents in beverages.
- Determined product-market fit and commercial viability of scientific research.
- Sponsorship by University of Cambridge’s startup incubator.

**Software Development and Business  
Analysis Intern**  
Nottingham

Atomic Media

April 2022 - August 2022

- Built an anomaly detection system that analysis of fuel levels in a vehicle fleet to infer when there may have been an incident of fuel theft.
- Analysed new business opportunities and ventures, writing insight articles.
- Led skill days, which taught developers the low-end networking implementations of the tools they use: <https://github.com/emilbowry/NetworkProgrammingLesson>
- Organised the weekly cyber-security brief about emerging threats and vulnerabilities.

**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 make 4+ dimensional correlations intuitive to the human eye

**Code Editor:**

<https://github.com/emilbowry/editor>

A fork of Microsoft VSCode that:

- Improves supply chain security by removing telemetry “at the source” rather than just blocking the URL (like alternative’s like ‘Codium’)
- Removes LLM, MCP and agentic AI integrations and bloat.
- Adds new features, like a persistent homepage, and cross-codebase note taking system

**AST Debug Logger:**

<https://github.com/emilbowry/AST-Debugger>

A debugging tool that intercepts python code before execution to toggle any ‘debug’ flags, even from orphans and disconnected nested code. It also intercepts and saves a logs.

**Algorithmic Trading resource:** <https://github.com/emilbowry/algorithmicTrading>

A teaching resource that develops and implements knowledge gained in my signals processing, statistics, systems and other engineering courses; research into advanced mathematics to develop examples of: Quantitative Risk Modelling, Alpha Generation and Backtesting Engines

**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. It provided zero-lag estimation, unlike moving averages; retained phase information, unlike mixture models; and provided a non-parameteric way to estimate state.

**Neural Data Analysis:** Built an ETL (Extract, Transform, Load) framework for Lateral Intraparietal Cortex (LIP) neuron impulses, in order to analyse stochastic models The core objective was to evaluate and test different statistical models for varying models.

**iCloud Find-my messaging service:** A system to piggyback on Apple’s “Find my iPhone” API to remotely communicate between devices without knowledge of any identifiers like IP addresses (Side-Channel Analysis).

**Automated Notes Reasoning:** A system that makes inferences about my course notes. Using techniques derived from Category Theory and reverse-engineering parts of the ‘Obsidian Markdown Editor’.

**Module Type Objects:** Built a parallel object system using modules as the core components in python to allow for more flexible and better controlled attributes.

**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