

## EDUCATION

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### University of Oxford, Integrated Master's in Mathematics and Computer Science 2019 - 2023

- First-Class degree and Master's Distinction. Year 2: 75.3%, rank 5/40. Year 3: 73.3%, rank 12/40.
- Achieved distinction in practical component every year. Awarded academic scholarship.
- Selected results: Machine Learning (90%), Computational Game Theory (85%), Mathematics Dissertation (84%).

### French Lycée Charles de Gaulle, London 2013 - 2019

- French Baccalaureate with 20.5/20 overall mark. Best out of 150 students in the school scientific stream.
- Ranked first regionally in 2018 French Mathematics Olympiads, 17<sup>th</sup> in 2018 French Informatics Olympiads.

## EXPERIENCE

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### Research Fellow | MATS 9.0 (current) December 2025 -

- Empirical AI welfare research with Patrick Butlin (Eleos AI). Investigating shared representations across personas.
- Posted preliminary write-up: Models have linear representations of what tasks they like ([post](#), [code](#)).
- Awarded 6-month extension funding.

### Quant Trader | Optiver February 2024 - May 2025

- Part of 6-trader equities desk, managing 200+ fully algorithmic strategies and generating \$500k average daily PnL.
- Independently researched, backtested, deployed, and monitored 5+ liquidity-providing strategies.
- Skills: quantitative research, quick hypothesis testing, decision-making under uncertainty, clear communication.

### Visiting Philosophy Researcher | Ruhr-Universität Bochum October 2023 - December 2023

- 2-month philosophy research project on formalising illusionist theories of consciousness with François Kammerer.

### Founding Member | HomeDAO September 2022 - July 2023

- Founding member of Oxford hacker-house sponsored by a blockchain hedge-fund.

### Data Science Intern | Mansa July 2021 - September 2021

- Built in-house transaction classifier model for private credit startup, outperforming external solutions by 40%.

## TECHNICAL SKILLS & PROJECTS

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**Programming Languages:** Python, Scala, SQL, Java, Haskell.

**Other technical skills:** Claude Code, Pandas, PyTorch, transformers, MCP, CI/CD.

### Recent projects:

- [Zombuul \(2026\)](#). Claude Code plugin for launching autonomous research agents with access to GPU pods.
- [Split Persona Training \(SPAR 2025\)](#). Honest persona fine-tuning with a trigger token eliciting a split personality. Under review at ICML 2026 (avg review 4.5/6). Independently ran follow-up [ablations](#) to simplify the method.
- [Dissertation \(grade: 84%\): Emergence of perceptual unity, selfhood and qualia in a hierarchical generative model \(2023\)](#). Operationalised properties of consciousness and described how they could arise in a generative model.

## INTERESTS & ACHIEVEMENTS

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### Leadership and Teamwork:

- Organised charity "European Night" in 2022 in Oxford, raising £2200 for Ukraine.
- Founded Oxford Market-Making society and secured a sponsorship deal worth £2000 after the first event.

**Languages:** French (native), English (native level), Italian (B2), Dutch (B1)

**Music:** Passionate drum player for 13+ years. Took part in organising and playing in several charity concerts.