

# Rosco Hunter

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## INTERNSHIPS AND COLLABORATIONS

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### Freelance AI Safety Projects

Jan. 2024 – Present

- Awarded a Technical Governance Fellowship at the Existential Risk Alliance (based at Cambridge University) to analyse the alignment of large language models (LLMs) in comparison to other safety-critical domains
- Researched the opportunities and risks of open-source LLMs with guidance from Ben Bucknall

### Abacus.AI

Jan. 2024 – Mar. 2024

- Analysed the precision of open-source LLMs at arithmetic tasks involving many-digit numbers
- Designed a mixture-of-experts to improve the efficiency and performance of LLaMA at arithmetic

### Samsung AI Centre – Cambridge

Oct. 2022 – Dec. 2023

- Developed techniques for computer vision that achieve state-of-the-art efficiency, resulting in two papers:
  - Fast Inference Through the Reuse of Attention Maps in Diffusion Models [\[pdf\]](#)
  - Exploiting Network Compressibility and Topology in Zero-Cost NAS [\[pdf\]](#)

### Oxford Centre for Computational Neuroscience

Jun. 2021 – Sep. 2022

- Refined a causal model of the human connectome with supervision from Prof. Edmund Rolls (h-index: 178)
- Acknowledged in a collection of “Effective Connectivity” papers that have since accrued over 250 citations

## EDUCATION

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### University of Warwick

Oct. 2019 – Present

*PhD in Machine Learning (2022-Present)*

- Thesis: “Neural Architecture Search for Efficient Computer Vision” — Funded by the EPSRC
- Awarded ‘Best Paper’ at the International Conference on Automated Machine Learning (Berlin, 2023)

*BSc Mathematics (2019-2022)*

- First Class Degree (85.0%) receiving a first in all 25 assessed modules (*top 5% of cohort*)
- Key Modules: Mathematics of Machine Learning; Mathematical Biology; Neural Computing; Bifurcations & Symmetries; Modelling & Numerics; Measure Theory; Applied Dynamical Systems; Advanced Linear Algebra

### Secondary Education

Oct. 2015 – Jul. 2019

- A-levels: 4 A\*s in Mathematics, Further Mathematics, Physics, Psychology (*top 1% of the UK*)
- GCSEs: 10 A\*s with a distinction in Further Mathematics (*top 1% of the UK*)

## TEACHING & SPEAKING

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### Graduate Teaching Assistant:

- Mathematics of Machine Learning (MA3K1), University of Warwick, 2024
- First-Year Mathematics Supervisor, University of Warwick, 2023

### Public Speaking:

- [Best Paper Talk](#), International Conference on Automated Machine Learning, Hasso-Plattner Institute, 2023
- Zero-Cost Proxies for Neural Architecture Search, WPCCS, University of Warwick, 2022