Rosco Hunter

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INTERNSHIPS AND COLLABORATIONS

ERA AI Safety   **Jul. 2024 – Oct. 2024**
- Awarded a Technical Governance Fellowship, based at the University of Cambridge
- Designing an exercise to identify and mitigate human over-reliance on advanced AI

Abacus.AI   **Jan. 2024 – Mar. 2024**
- Analysed the precision of open-source LLMs at numerical tasks that involve many-digit numbers
- Designed a mixture-of-experts that improved the efficiency of LLaMA at several arithmetic tasks

Samsung Cambridge AI Lab   **Oct. 2022 – Dec. 2023**
- Jointly first-authored two papers that propose neural network architectures for efficient computer vision:
    - Fast Sampling 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**
- Assisted Prof. Edmund Rolls in developing the code for a causal model of the human connectome
- Acknowledged in seven "Effective Connectivity" papers published in Cerebral Cortex and NeuroImage

EDUCATION

University of Warwick   **Oct. 2019 – Present**
PhD Candidate in Machine Learning (2022-Present)
- Researching neural architecture search for efficient computer vision—Supervised by Prof. Hongkai Wen
- 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
- GCSEs: 10 A*s with a distinction in Further Mathematics

TEACHING & SPEAKING

Graduate Teaching Assistant
- Seminar Tutor for the Mathematics of Machine Learning (University of Warwick, 2024)
- Supervisor for first-year Mathematics students (University of Warwick, 2023)

Public Speaking
- Talk: Exploiting Network Compressibility and Topology in Zero-Cost NAS (AutoML, 2023)
- Talk: Zero-Cost Proxies for Neural Architecture Search (WPCCS, 2022)