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Ole Jorgensen

AI MSc Student @ Imperial

Website: ojorgensen.github.io
LinkedIn: [ole-jorgensen](#)

Currently investigating the truthfulness of large language models, alongside completing an MSc in Artificial Intelligence at Imperial College London.

Conducted initial research into interpretability, alongside writing on AI Alignment, which can be found at my [website](#).

Graduated with an MMath from St Andrews, one of the top 50 academically performing students across all 2022 graduates at the University. Has twice led successful research projects in Pure Mathematics, and have a lot of experience in leadership roles.

EXPERIENCE

Researcher

Mar 2023 — June 2023

AI Safety Camp

- Investigating the introspective truthfulness of large language models including GPT-4 and LLaMA.
- Designing and implementing a pipeline to investigate model behaviour under ambiguity.
- In collaboration with Jacob Pfau at NYU, and a cohort of Software Engineers.

Researcher

Jul 2021 — Sep 2021

University of St Andrews

- Undertook original research in Pure Mathematics alongside Prof. Colin Bleak and two other undergraduates, wherein we investigated rotation and conjugacy in Thompson's Group T.
- Found novel conditions that candidate solutions must satisfy to describing rotation as a commutator.
- Funding provided by the Maths Department's Summer Internship Programme.

Researcher

Jun 2020 — Aug 2020

University of St Andrews

- Completed original research in Pure Mathematics on the Rado Complex under the supervision of Prof. Peter Cameron, with funding from the Laidlaw Foundation.
- Explanatory paper and poster published on the Laidlaw Scholar's Network.

Co-President

May 2020 — May 2022

Effective Altruism St Andrews

- Designed and ran an introductory mentorship programme for new members (SPEAK), more than doubling applications year on year.
- Coordinated a committee to run successful Speaker Events, Career Workshops, and Discussion Groups.
- Successfully obtained several grants totalling over £5000 from the EA Infrastructure Fund to support the group

Volunteer

May 2021 — Jul 2021

Open Cages

- Worked full time during the Summer with funding from the Laidlaw Foundation.
- Conducted independent research on the international broiler market, informing the charity's big-picture strategy on which markets to target in order to maximise impact.
- Directly collaborated with the CEO to run a successful fundraising campaign, writing emails to tens of thousands of supporters.

Club Captain

Mar 2020 — Mar 2022

St Andrews Shinty Club

- Coordinated 3x training sessions a week throughout the academic year, managed the team during games and tournaments.
- Adapted all sessions to adhere to constantly changing COVID-19 restrictions throughout the pandemic, restructuring training sessions and establishing track and trace systems.

EDUCATION

MSc Artificial Intelligence

2022 - 2023

Imperial College London

- Module Average 81/100, equivalent to 4.0 GPA.
- First term modules: Python Programming, Reinforcement Learning, Introduction to Machine Learning, Mathematics for Machine Learning, and Introduction to Symbolic AI
- Second term modules: Deep Learning, Natural Language Processing, Probabilistic Inference, and AI Software Engineering Group Project.
- My Dissertation will focus on how to improve neural network generalisation out of distribution, under the supervision of Murray Shanahan.
- Facilitating a weekly AI Safety Reading Group.

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MMath (Hons) Mathematics

2018 – 2022

University of St Andrews

- Module Average 19.1/20, equivalent to 4.0 GPA.
- Modules Including Measure and Probability Theory, Discrete Geometry, Galois Theory, and Symbolic Computation.
- My Dissertation successfully generalised several results regarding homogeneous graphs in the context of homogeneous k-hypergraphs.

A Levels

2016 – 2018

Highworth Grammar School

- A*, A*, A*, A in Maths, Further Maths, Physics and English Literature

AWARDS AND ACHIEVEMENTS

Laidlaw Scholarship

2020 – 2021

Received the Laidlaw Research and Leadership Scholarship, a competitive programme from the Laidlaw Foundation.
Funded my work with Prof. Peter Cameron and Open Cages.

The Principal's Scholarship for Academic Excellence

2022

Award presented to each of the top 50 academically performing students in their final year of study at the University of St Andrews.

Senior Honours Project Commendation

2022

My dissertation "Generalising Homogeneous Structures" was highly commended by assessors.

Duncan Prize (Applied Mathematics)

2019

Awarded to the best student of Applied Mathematics at Second Level.

Dean's List

2019, 2020, 2021, 2022

Awarded for obtaining an average of 16.5 or higher (a 1st) for the academic year.