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# Ole Jorgensen

AI MSc Student @ Imperial

Website: [ojorgensen.github.io](https://ojorgensen.github.io)  
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Studying for a MSc in Artificial Intelligence at Imperial College London.

Graduated with an MMath from St Andrews, one of the top 50 academically performing students across all 2022 graduates at the University.

I have twice led successful research projects in Pure Mathematics, and have a lot of experience in leadership roles. Confident programming in Python.

## EXPERIENCE

### Researcher

Jul 2021 — September 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*

- First term modules: Python Programming, Reinforcement Learning, Introduction to Machine Learning, Mathematics for Machine Learning, and Introduction to Symbolic AI
- Planned second term modules: Deep Learning, Natural Language Processing, Probabilistic Inference, Computational Optimisation, and AI Software Engineering Group Project
- Attending the Imperial AI Safety Reading Group

### 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

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## AWARDS AND ACHIEVEMENTS

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<b>Laidlaw Scholarship</b>	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.	
<b>The Principal's Scholarship for Academic Excellence</b>	2022
Award presented to each of the top 50 academically performing students in their final year of study at the University of St Andrews.	
<b>Senior Honours Project Commendation</b>	2022
My dissertation "Generalising Homogeneous Structures" was highly commended by assessors.	
<b>Duncan Prize (Applied Mathematics)</b>	2019
Awarded to the best student of Applied Mathematics at Second Level.	
<b>Dean's List</b>	2019, 2020, 2021, 2022
Awarded for obtaining an average of 16.5 or higher (a 1st) for the academic year.	