

Brian Hearn

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PERSONAL PROFILE

I am a hard-working and enthusiastic mathematics PhD student from Ireland, currently at the London School of Economics and Political Science. I am passionate about pure mathematics and mathematics education, and I am always eager to learn and to further develop my skills and interests.

EDUCATION

The London School of Economics and Political Science - MPhil/PhD in Mathematics

September 2024 - Present

I am currently a PhD student with the Discrete Mathematics research group at the LSE, researching extremal and probabilistic combinatorics, supervised by Professor Jan van den Heuvel.

University of Oxford - Master's in Mathematical Sciences (OMMS) (Distinction)

October 2022 - June 2023

I graduated with distinction (highest classification) from Oxford University in 2023. I studied a range of pure and applied topics, from combinatorics to computational algebraic topology to network science. My dissertation concerned the application of algebraic and polyhedral geometry to problems in maximum likelihood estimation.

Trinity College Dublin - Bachelor of Arts in Mathematics (First Class Honours)

September 2016 - August 2020

I graduated with the highest results in my year, averaging a grade of 90% across my final two years (70% required for a first class honour), achieving first class honours every year, and receiving a gold medal for academic excellence.

WORK EXPERIENCE

Deloitte Ireland - AI & Data Consulting

September 2023 - August 2024 | January 2022 - August 2022

I previously worked as part of the Artificial Intelligence and Data team at Deloitte Ireland, where I gained first-hand experience working on client and internal projects within the healthcare sector.

Freelance Tutoring and Teaching Assistance

January 2018 - Present

I have tutored school-level mathematics part-time since 2018. In 2020 I served as a Teaching Assistant at Trinity College Dublin, tutoring and grading assignments in computation theory and logic.

HARD SKILLS

I am proficient in Python and R, and have some experience with C#, JavaScript, and AWS. I am also proficient in LaTeX, and have some experience with web development in HTML. I have much experience with a wide range of topics across pure mathematics, applied mathematics, and data science.

SOFT SKILLS

I have strong communication skills, in part due to my tutoring business where it is essential to be able to explain technical concepts in a clear, concise, and comprehensible manner, and from my time at Deloitte. I am organised and diligent, traits which have allowed me to achieve the highest grades throughout my education. I have strong people skills, and excel working in collaborative environments.

OTHER INTERESTS AND HOBBIES

I have a passion for music, completing a diploma in classical piano performance with the ABRSM. I have written, performed, and released collaborative and solo music on Youtube, Soundcloud, and Spotify.