

BEN HESKIN

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Education

Trinity College, Dublin - Mathematics (Major) & Economics (Minor) 2021-2025

- **Degree classification:** Upper Second Class Honours (2:1), 69%.
- **Capstone Project (77%):** Bayesian Mixture of Experts Model Analysis - Used a probabilistic interpretation of a framework typically used in AI. Identified voting bloc clusters from exit-poll data.
- **Key modules:** Data Analytics (PCA, Decision Trees, Regression): 81%, Mathematics Education: 80%, Intermediate Economics: 73%, Investment Analysis: 71%, Stochastic Modelling (Markov Chains, Brownian Motion, HMM, Gaussian Processes): 67%.
- **Selected Project:** Used copulas to develop a more realistic model for default risk in domestic loans.

St. Patrick's Classical School, Navan, Co. Meath

2015-2021

- Scored 601/625 points on the Leaving Certificate (equivalent to top ~5% nationally). Held leadership roles as Prefect and Secretary of the Student Council in the final year.

Career Summary

Research Intern - Mathematics Department, Trinity College Dublin

June 2024-August 2024

- Developed an R-based simulation to study Condorcet voting paradoxes in ranked data. Optimised an algorithm to quantify the occurrence of the paradoxes. Analysed variation in results across various parameter settings.

Bar Manager - HAP Solutions

May 2022-Present

- Work as a Bar Manager at concerts and festivals. Responsible for the running of a team of up to 120 staff and 4 supervisors for bars that frequently achieve over €70,000 in turnover per event. Served as manager of smaller bars and supervisor in previous seasons.

Tutor - Self Employed

September 2021-Present

- Specialise in preparing students for state and university level exams, with all students achieving their target grades to date. Completed a placement in an inner-city DEIS school and continued tutoring a student one-on-one during undergraduate degree.

Sales Assistant - JYSK Ireland

May 2019-September 2022

- Served customers on the shop floor and at checkout; managed inventory replenishment, price labelling, and warehouse operations. Promoted to Key Holder and Shift Supervisor in 2021.

Leadership & Volunteering

University Philosophical Society

- **Treasurer** 2024-2025

Managed an annual budget exceeding €150,000; designed and delivered slide decks to over 20 corporate sponsors, securing partnerships with PressUp, Deliveroo, Web Summit and six local businesses. Modernised the capital-expenditure funding pipeline, resulting in a fivefold increase in spend on CapEx projects.

- **Advertising Officer** 2023-2024

Led advertisement campaigns, securing €2,000 in funding for the society. Organised three sponsored Instagram giveaways.

Trinity News

- **Statistics Editor** 2024-2025

Conducted inference and reporting on opinion poll results for college elections as Statistics Editor of Trinity News. Established late stage campaign snap polling to better quantify campaign dynamics.

Trinity College Dublin Students' Union (TCDSU)

- **Volunteer Forum Coordinator** 2022-2023

Organised Raise and Give Week, including thirteen events that raised €4,000 for charity. Chaired Volunteer Forum which .

- **Class Representative** 2021-2025

Elected class representative for four years. Awarded Highly Commended Class Rep for the academic year 21/22.

Society for International Affairs (SOFIA)

- **Treasurer** 2023-2024

Managed an annual budget of €7,000, successfully budgeted the Ambassadors Ball, hosted 150+ students and 20+ ambassadors, generating a profit.

Mathematics Society

- **Secretary** 2023-2024

Responsible for society communications via weekly emails and Instagram posts. Organised speaker events. Co-chaired the 100th birthday celebration and inclusivity subcommittees.

Skills & Development

- **Technical Skills:** R, Stata, C, C++, Python, SQL, Power BI, LaTeX; European Computer Driving Licence (ECDL).

- **Courses:**

- C++ Programming for Financial Engineering - Baruch College / QuantNet
- Financial Modelling (VBA Macros. Financial Statement, DCF, Valuation, M&A, and LBO Modelling) - Wall Street Oasis
- Excel Crash Course - WallStreetPrep

- **Interests:**

- Strong interest in financial markets and current affairs, actively managing a personal investment portfolio since 2020. Pursued a Junior Analyst role in the Student Managed Fund during Undergraduate degree. .
- Speak English (Native), Irish (Upper Intermediate), Mandarin (Beginner).