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%):** Built a Bayesian Mixture of Experts model Identified to identify voting bloc clusters from exit-poll data, using a probabilistic interpretation of methods typically deployed in machine learning.
- **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 competing risks in U.S. domestic loan data.

St. Patrick's Classical School, Navan, Co. Meath   **2015-2021**

- Leaving Certificate: 601/625 (top ~5% nationally); Prefect & Student Council Secretary.

Career Summary

Research Analyst - *Ireland Thinks (Polling and Market Research Firm)*   **July 2025-Present**

- Analyse datasets to identify demographic, behavioural trends to support the delivery of high-impact quantitative insights.
- Produce data driven slide decks and reports for clients, distilling complex data into key takeaways.
- Support survey design, data cleaning, and weighting to ensure accuracy, reliability, and replicability.

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**

- Lead bars of up to 120 staff and 4 supervisors at concerts and festivals, oversee bars generating €70,000+ in turnover per event.
- Manage site logistics, operations, and cash reconciliation under high-pressure conditions.

Mathematics Teacher/Tutor - *Various Employers*   **September 2021-Present**

- Specialise in preparing students for state and university level exams, with all students achieving their target grades to date. Currently working part-time teaching 6th year, resource, and EAL Mathematics in a Dublin based DEIS school.

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 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 the Volunteer Forum.

- **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 (to an audience of over 400 members) and Instagram posts. Organised speaker events. Co-chaired the 100th birthday celebration and inclusivity subcommittees.

Skills & Development

- **Technical Skills:** R, C, C++, Python, Stata, 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
  - Calculus, Linear Algebra for Financial Mathematics - University of Chicago, Quant Foundation Series
- **Interests:**
  - Strong interest in financial markets and current affairs, actively managing a personal investment portfolio since 2020. Pursued an Analyst role in the Student Managed Fund during Undergraduate degree.
  - Speak English (Native), Irish (Upper Intermediate), Mandarin (Beginner).