

Career Summary

Research Intern - Mathematics Department, Trinity College Dublin**June 2024-August 2024**

- Constructed and implemented a model to study the occurrence of Condorcet Paradoxes in simulated ranked data. Developed and optimised an algorithm in R that analyses patterns across varying parameters.

Tutor**September 2021-Present**

- Specialise in preparing students for state exams, with all students achieving their target grades to date.
- Utilise a friendly teaching style that equips students with both the necessary instrumental skills and a deeper understanding of mathematics, ensuring they know how concepts work and why they are learning them. Completed a placement in an inner-city DEIS school and continued tutoring a student one-on-one.

Barperson - Various Employers**May 2022-Present**

- Work in the bar at events and festivals. Bar Manager with the HAP Solutions group. Responsible for the running of a team of up to 20 staff for a bar that often achieves over €10,000 sales per concert.

Sales Assistant - JYSK Ireland**May 2019-September 2022**

- Served customers both on the shop floor and at the tills, while also managing shelf stocking, price labelling, and warehouse management. Promoted to Key Holder and Shift Supervisor.

Education

Trinity College, Dublin - Mathematics & Economics**2021-2025**

- Final Grade: 69%. Minor in Economics; Capstone Project: Bayesian Mixture of Experts Model Analysis. Achieved 77%.
- Achieved 81% in Data Analytics (PCA, Decision Trees, Regression), 80% in Mathematics Education, 73% in Intermediate Economics, 71% in Investment Analysis, 67% in Stochastic Modelling.
- Implemented various projects, including researching the efficiency of copulas in developing a more realistic model for the correlation between price deviations of financial assets.

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.

Leadership & Volunteering

University Philosophical Society

- Treasurer** **2024-2025**
Managed a budget of over €150,000. Secured sponsorships with the PressUp Group, Deliveroo, Websummit, and six local businesses.

- Advertising Officer** **2023-2024**
Led advertisement campaigns, securing €2,000 worth of ads for the society's magazine. Organized three successful giveaways on Instagram for sponsors.

Trinity News**2024-2025**

- Statistics Editor**
Conducted inference and reporting on opinion poll results for college elections as Statistics Editor of Trinity News. Established mid campaign snap polling.

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.
- 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** **2022-2023**
Managed an annual budget of €7,000, successfully budgeted the Ambassadors Ball, hosted 150+ students and 20+ ambassadors, generating a profit.

Mathematics Society

- Secretary** **2022-2023**
Responsible for society communications and organising speaker events. Co-chaired the 100th birthday celebration subcommittee and served on the inclusivity subcommittee.

Skills

- Proficient in R, Stata, C, C++, Python, and LaTeX. Achieved a European Computer Driving Licence.
- 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 in first year.