Prof. Barry Quinn

Professor of Finance and Financial Technology

Contact Information

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Personal Statement

As a Professor of Finance and FinTech at Ulster University Business School, I bridge the gap between cutting-edge quantitative research and practical financial applications. With 14 peer-reviewed publications (including 1 ABS4* and 11 ABS3 papers), over £2M in research funding, and extensive industry collaboration, I specialize in applying statistical and machine learning techniques to complex problems in financial markets, regulation, and cooperative finance.

My research portfolio spans systemic risk assessment, market manipulation detection, and AI applications in finance, with particular expertise in regulatory technology (RegTech). I have successfully supervised 6 PhD completions to date, with 6 current doctoral students working on frontier topics including generative AI in finance and market anomaly detection.

My unique perspective combines 9 years of financial markets experience as a currency trader and liquidity manager with rigorous academic training. As a Chartered Statistician, I am particularly committed to promoting ethical approaches to data analysis and evidence-based decision-making in an era of increasing algorithmic complexity.

Education and Professional Qualifications

Degree	Institution	Year
B.Sc.(Hons) Accounting and Finance	Queen's University Belfast	1995
MSc Quantitative Finance	RMIT University Melbourne	2006
Ph.D. Finance	Queen's University Belfast	2012
Chartered Statistician	Royal Statistical Society	2019
MSc Artificial Intelligence	Queen's University Belfast	Graduating 2025

Research Excellence

Key Publications (Selected from 14 peer-reviewed papers)

ABS4* Journal: - Liu, Weilong, Zhang, Yong, Liu, Kailong, Quinn, Barry, Yang, Xingyu, Peng, Qiao (2024). Evolutionary Multi-Objective Optimisation for Large-Scale Portfolio Selection With Both Random and Uncertain Returns. *IEEE Transactions on Evolutionary Computation* (ABS4)

Recent ABS3 Publications: - McKillop, Donal, Liu, Kailong, Quinn, Barry, Peng, Qiao (Forthcoming). Modelling and Predicting Credit Union Failures. *International Journal of Forecasting* (ABS3) - Bouri, E., Quinn, B., Sheenan, L. & Tang, Y. (2024). Investigating extreme linkage topology in the aerospace and defence industry. *International Review of Financial Analysis* (ABS3) - Quinn, Barry, Gallagher, Ronan, Kuosmanen, Timo (2023). Lurking in the shadows: The impact of CO2 emissions target setting on carbon pricing in the Kyoto agreement period. *Energy Economics* (ABS3)

Research Impact and Funding

Table 2: Major Research Grants (Selected)

Funding Body	Role	Period	Project Title	Value
UKRI/InnovateUK	PI	2024-2025	Understanding and Enhancing regulatory compliance using AI	£250K
InnovateUK	PI	2021-2023	Tail Risk Analytics and Stress Testing	£180K
InnovateUK	Co-I	2017-2019	AI and Advanced Retail Analytics	£150K
Various KTPs	PI/Co-I	2017-2023	Multiple Knowledge Transfer Partnerships	£800K+

PhD Supervision Excellence

Completed Supervisions (6): - Dr. Jiadong Liu (2018): *Momentum in Empirical Asset Pricing* - Dr. Ashleigh Neil (2019): *Law and Financial Stability* - Dr. Colm Kelly (2021): *Machine Learning in Empirical Asset Pricing* - Dr. Qiao Peng (2021): *US Credit Union Mergers: Causes and Consequences* - Dr. Kevin Johnson (2019): *Industrial Consolidation: The Irish Credit Union Sector* - Veronica Zhang (2024): *Capital Policy and State Sponsorship in Chinese Banking*

Current Supervisions (6): Including students working on AI applications in finance, sustainable investing, and regulatory technology.

Teaching and Academic Leadership

Teaching Excellence

- **Programme Director**, MSc Quantitative Finance (2018-2022)
- **Programme Director**, MSc Computational Finance & Trading (2014-2018)
- **Co-Founder**, Queen's Student Managed Fund (2012-2024)

- **Teaching Award**, QUB (2016)

Academic Service

- **Co-director**, Finance and AI Research Lab, Queen's University Belfast (2022-2024)
- **Programme Director**, MSc Quantitative Finance (2018-2022)
- **Lead Developer**, Queen's Business School Remote Analytics Lab Platform
- **Organiser**, Symposium on AI and Future of Financial Regulation (2023)

Professional Experience

Professional Recognition

- **Chartered Statistician**, Royal Statistical Society (2019)
- **Advanced Data Science Professional**, Alliance of Data Science Professionals (2024)
- **1st Place**, CFA European Quantitative Finance Awards (2018)
- **Associate Research Fellow**, QUB Momentum One Zero (2021-2024)

Full publication list and detailed CV available upon request