

Brendan Martin

✉ b.martin22@imperial.ac.uk · 🗂 bmartin9 · 💬 brendanmartin98 · ☎ +44 7491222938

EDUCATION

Imperial College London	2022–Current
<i>PhD in Statistics and Machine Learning</i>	
◦ Research in network methods for high-dimensional time series with applications to finance and macroeconomics.	
◦ Theoretical and methodological contributions to factor modelling, random graphs, and spectral clustering.	
The University of Edinburgh	2016–2021
<i>MPhys in Mathematical Physics, First (85%)</i>	
◦ Thesis: Holographic Renormalization Group for the Ising Model.	
◦ Courses on quantum field theory, statistical physics, general relativity, algebra, and smooth manifolds.	
The University of California, Berkeley	2019–2020
<i>Year Abroad in Mathematical Physics</i>	

EXPERIENCE

Imperial College London	2022–Current
<i>Graduate Teaching Assistant</i>	
◦ Courses include: Introduction to Statistical Finance (MSc), Programming for Data Science (MSc), Probability for Statistics (Undergraduate), Mathematical Foundations of Machine Learning (Undergraduate).	
Edinburgh Parallel Computing Centre	2021–2022
<i>Applications Developer</i>	
◦ Developed a mechanism for the automatic cleaning and ingest of NHS data into a database.	
◦ Supervised an MSc Project in machine learning for quantum tomography.	
CERN	Summer 2020
<i>Research internship in particle physics</i>	
The University of Edinburgh	Summer 2019
<i>Research project on machine learning for particle physics</i>	

PUBLICATIONS

1. Martin, B., Cucuringu, M., Luati, A. & Passino, F. S. Factor-Driven Network Informed Restricted Vector Autoregression in *Proceedings of the 6th ACM International Conference on AI in Finance* (2025).
2. Martin, B., Passino, F. S., Cucuringu, M. & Luati, A. NIRVAR: Network Informed Restricted Vector Autoregression. *arXiv preprint arXiv:2407.13314* (2024).

RECENT INVITED TALKS AND PRESENTATIONS

◦ 6th ACM International Conference on AI in Finance, Singapore - <i>Talk</i>	November 2025
◦ Network Stochastic Processes and Time Series (NeST) Away Day, Oxford - <i>Talk</i>	September 2025
◦ NBER-NSF Time Series Conference, Philadelphia - <i>Poster presentation</i>	September 2024
◦ Virtual Time Series Seminar (VTSS) Workshop for Junior Researchers - <i>Talk</i>	April 2024
◦ Financial Economics meets Machine Learning Conference, Rotterdam - <i>Poster presentation</i>	November 2023