

+353 87 695 5032
Dublin, Ireland
jameshannon97@outlook.com

James Hannon

Personal page: jameshannon97.github.io
github.com/JamesHannon97/
linkedin.com/in/hannon-james

Statistics PhD with experience in Bayesian modelling and applied data science. Experienced in developing reproducible research pipelines and translating complex statistical methods into practical, industry-relevant insights. Seeking a quantitative or data science role where rigorous modelling and data-driven decision-making are central.

SKILLS

Programming Languages	Python, R, SQL, C, Rust, Scala
Tools and Platforms	Git, \LaTeX , Markdown, VBA, Hadoop, MapReduce
Research	Bayesian hierarchical modelling, Generalised linear models, Spatial statistics, Time series analysis
Communication	English (fluent speaker)

WORK EXPERIENCE

Sports Trader **Oct 2017 — Oct 2020**
Paddy Power Betfair *Dublin, Ireland*

- Built customer betting profiles to estimate expected value and inform pricing and exposure decisions.
- Analysed market prices and event-level liabilities to manage risk and maintain balanced books across live markets.
- Compiled and adjusted odds for upcoming sports events, incorporating market information and trading models.
- Traded live NBA, NFL, NHL, and MLB events using quantitative trading models to respond to real-time market movements.

Data Analytics Consulting Intern **Jun 2019 — Jul 2019**
PwC *Dublin, Ireland*

- Delivered data-driven analysis of non-performing loan portfolios for a large Irish commercial bank, supporting credit risk assessment.
- Identified customers at elevated risk of default using statistical analysis and presented insights to senior bank stakeholders.
- Collaborated with a cross-functional intern team on an innovation challenge focused on improving future workplace practices at PwC.

Risk Analyst Intern **Jul 2022 — Sep 2022**
Central Bank of Ireland *Dublin, Ireland*

- Led an independent research project, “*Unwrapping Bond Secrets with AI*”, assessing bond market liquidity during Covid-19 shocks.
- Analysed large-scale bond data over a five-year period, using bid-ask spreads as a proxy for market liquidity.
- Developed a modelling pipeline combining DBA-K-means clustering with LSTM and ARIMA models to forecast bid-ask spreads.
- Designed an anomaly detection system to flag bonds exhibiting unexpected liquidity behaviour, supporting regulatory monitoring and oversight.

EDUCATION

Bachelor of Sciences in Financial Mathematics **Sep 2016 — May 2020**
University College Dublin *Dublin, Ireland*

- Grade: First Class Honours

Masters of Sciences in Statistics **Oct 2020 — Sep 2021**
Imperial College London *London, UK*

- Grade: Distinction
- Thesis title: Hierarchical Glicko-2 for Doubles Tennis

Doctor of Philosophy in Statistics **Sep 2021 — Jan 2026**
University College Dublin *Dublin, Ireland*

- Thesis title: Statistical Models for Improved Insurance Pricing and Risk Assessment Using Telematics and Wearables Data

PUBLICATIONS

Hannon, J., & O’Hagan, A. (2025). *Statistical models for improved insurance risk assessment using telematics.* British Actuarial Journal.

Hannon, J., O’Hagan, A., Lambe, R., O’Grady, B., & Doherty, C. (2025). *Associations Between Daily Heart Rate Variability and Self-Reported Wellness: A 14-Day Observational Study in Healthy Adults.* Sensors.

ACTIVITIES & LEADERSHIP

1st Place, Citadel & Citadel Securities Europe Regional Datathon (Apr 2023)
Certified Boxing Trainer, Irish Amateur Boxing Association (IABA)
Former President, UCD Boxing Club