



Dr Jonathan A. Tepper

Academic Lead · Associate Professor · Professor of Data Science & AI

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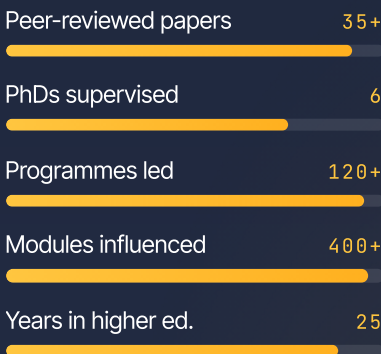
ORCID
0000-0001-7339-0132

LOCATION
United Kingdom

Research areas

- Neural networks & deep learning
- Time-series forecasting
- Macroeconomic modelling
- Cognitive systems
- Applied AI for finance

At a glance



Recognition

- Fellow, Higher Education Academy
- Member, INNS

Academic profile

Senior academic and applied data scientist with over **two decades** of experience spanning computer science, machine learning and data science. Sustained research excellence combined with significant academic leadership and real-world impact – recognised for designing and deploying advanced forecasting and machine learning systems while maintaining a strong international publication record and securing competitive research funding.

Founder of Perceptronix Ltd (2018–present), bringing rare industry-led insight into academic teaching, research and leadership – translating cutting-edge research into deployable systems, enriching curriculum design, impact case studies and industry engagement beyond the traditional university-only career path.

Academic appointments

● **Sessional Lecturer · MSc Financial Technology**
University of Birmingham 2024 – present

● **Sessional Lecturer & MSc Project Supervisor**
Aston Business School · Aston University 2022 – present

● **Principal Lecturer & School Quality Manager**
Nottingham Trent University 2015 – 2018

● **Principal Lecturer & Learning & Teaching Coordinator**
Nottingham Trent University 2005 – 2015

● **Senior Lecturer in Computer Science**
Nottingham Trent University 2001 – 2005

● **Senior Lecturer**
Leeds Metropolitan University 2000 – 2001

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Selected venues

- Knowledge-Based Systems
- Physica A
- AI in Medicine
- Trends in Cognitive Science
- Economics Letters
- Advances in Econometrics

Invited talks

- OECD
- Bank of England
- MIT Sloan School of Management

Service

- Reviewer · *Nature* · *Sci. Reports*
- Programme Committee · IJCNN
- Member · INNS & ALT

Research & funding

Internationally recognised researcher in machine learning, neural networks and time-series forecasting — sustained publication output while working concurrently in industry.

- **35+ peer-reviewed** journal and conference publications across AI, econometrics and data science.
- Publications in leading venues including *Knowledge-Based Systems*, *Physica A*, *AI in Medicine* and *Trends in Cognitive Science*.
- Primary technical contributor to **EPSRC-funded** forecasting projects with the University of Birmingham and NIESR.
- Developer of bespoke neural-network-based **UK inflation forecasting** models published monthly by NIESR.
- Invited research presentations at the **OECD**, **Bank of England** and **MIT Sloan**.

Teaching, leadership & industry engagement

- Designed and delivered core ML, data science and AI modules at **BSc and MSc** level; **Founder & Course Leader**, MSc Data Analytics for Business (NTU) — drawing professionals from HM Government, Credit Suisse, Equifax, NHS and Rolls-Royce.
- Supervised **six PhD students** to successful completion; guest lecturer on applied ML and forecasting for MSc programmes.
- **School Quality Manager** for 120+ UG/PG programmes; led institution-wide curriculum refresh spanning 400+ modules.
- **Founder & Director, Perceptronix Ltd** (2018–present) — delivering real-world ML and forecasting systems for finance, economics and sports analytics, directly informing teaching, partnerships and impact.

Education

PhD, Computer Science · Modular neural architectures for language processing · Nottingham Trent University

PGCert Higher Education (Distinction) · Nottingham Trent University

BSc (Hons) Computing Systems (2:1) · Nottingham Trent University