

Dr Jordan J. Bird

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Professional Experience

Nottingham Trent University | Clifton, Nottinghamshire
Senior Lecturer in Computer Science | 05/2023 - Present
Senior Lecturer on the *Teaching & Research* pathway.

Module Leader for Understanding LSEP in Data Science (*New module – lecture design, assessment design, and delivery.*)

Teaching for Applied AI and Data Mining, Big Data & Its Infrastructure, Service Oriented Cloud Technologies, Introduction to Computers and Technology.

Nottingham Trent University | Clifton, Nottinghamshire
Lecturer in Computer Science (Hourly Paid) | 04/2022 - 05/2023

Main supervisor for 8 MSc Major Projects. Teaching on the COMP40711 *Big Data & Its Infrastructure* and ISYS40061 *Service-Oriented Cloud Tech* modules.

Nottingham Trent University | Clifton, Nottinghamshire
Research Fellow and Lab Lead | 10/2021 - 05/2023

Conducting and publication of scientific research, exploring opportunities for external grant capture, and collaboration with colleagues. Provision of academic support for a Knowledge Transfer Partnership (KTP). In April 2022 I was appointed as the robotics lab lead by the Head of the Computer Science Department. Duties included management, outreach, and citizenship.

Aston University | Birmingham
Teaching Assistant | 07/2018 - 08/2021

Leading distance learning sessions for the degree apprenticeship programme. I was responsible for Human-Computer Interaction, Geographic Information Systems, Computer Graphics, and Computational Intelligence. My responsibilities involved the delivery of lecture material as well as lab supervision. In addition, I designed lab worksheets for Computational Intelligence and created the MSc Artificial Intelligence coursework on implementing computer vision for self-driving vehicles, both of which are still in use today.

The Marketing People | Burntwood, Staffordshire
Web App Developer | 11/2016 - 11/2017

Education

Nottingham Trent University | Nottingham
Academic Professional Apprenticeship

Academic Professional Apprenticeship in Higher Education (equivalent to a Master's Degree).

Aston University | Birmingham
PhD | 08/2021

Awarded a scholarship to continue my studies at Aston University as a researcher in the fields of Artificial Intelligence and Human-Robot Interaction under the supervision of Prof. Aniko Ekárt and Dr. Diego R. Faria. In August 2021, I was awarded the PhD in Computer Science. My thesis can be read [here](#).

Aston University | Birmingham
BSc Computer Science | 07/2018

First Class Degree with Honours in Computer Science. My Final Year Project entitled "Learning from Interaction: An Intelligent Networked-based Human-bot and Bot-bot Chatbot System" was peer reviewed and published at the 2018 UK Workshop on Computational Intelligence.

Grants and Awards

I have successfully secured external funding for several research projects, totaling **£688,814** in grants:

To Create an Innovative AI Approach for Enhancing Data Quality through Data Augmentation in the Finance Sector. Funded by Innovate UK (**£235,710**) [2024-2027].

Integrated Virtual Wards For Ageing Well. Funded by Innovate UK (£207,379) [2024-2026].

SmartBerry: Artificial Intelligence To Enhance Strawberry Farming In Developing Countries. Funded by Innovate UK (£245,725) [2023-2025]

Turing Network Development Award – Contributions made to the external grant application towards a University-wide data science network, [NTU-Turing](#). Funded by the Alan Turing Institute [2022]

PhD Studentship - Awarded by Aston University [2018-2021]

Aston Excellence Scholarship - Awarded by Aston University [2014]

Student Supervision

PhD (Director of Studies): 1 student

PhD (Co-supervision): 1 student

MSc Major Project and Thesis: 19 students (14 graduated, 5 under supervision)

BSc Final Year Project: 12 students (1 graduated, 11 under supervision)

Scholarly Duty

International Journal Peer Review - duties have included provision of peer review reports for, including but not limited to, the Journals of Ambient Intelligence and Humanized Computing, Expert Systems with Applications, Biocybernetics and Biomedical Engineering, IEEE Access, IEEE Transactions on Human-Machine Systems, and the IEEE Open Journal of Circuits and Systems, among others.

Technical Programme Committee - UKCI 2023: The 22nd UK Workshop on Computational Intelligence. Aston University, Birmingham, UK, 6-8 September 2023.

Programme Committee - ALIFE 2023: The 2023 Conference on Artificial Life. Hokkaido, Japan, 24-28 July 2023.

Workshop Organiser - The seventh Human Behaviour Monitoring, Interpretation and Understanding (NOTION) workshop at The PErvasive Technologies Related to Assistive Environments (PETRA) conference. Corfu, Greece, 5th July - 7th July 2023. Organisers: Prof. Ahmad Lotfi, Dr Jordan J. Bird, Dr. Abdallah Naser.

Programme Committee - UA-DIGITAL 2023: UA Digital Theme Research Twinning. Virtual, Ukraine 27-31 March 2023.

Guest Lecture - "A Socially Interactive Multimodal Human-Robot Interaction Framework" delivered at the Kubota Lab, Tokyo Metropolitan University Hino Campus, Hachioji, Tokyo, September 16th, 2022.

Workshop Organiser - The sixth Human Behaviour Monitoring, Interpretation and Understanding (NOTION) workshop at The PErvasive Technologies Related to Assistive Environments (PETRA) conference. Corfu, Greece, 29th June - 2nd July 2022. Organisers: Prof. Ahmad Lotfi, Dr David Adama, Dr Jordan J. Bird.

Citizenship and Outreach

AI/Robotics Demonstrations with Q&A - attendees to my events have included Lilian Greenwood (Labour MP for Nottingham South), Primary School pupils and faculty members, High School pupils and faculty members, neurodiverse students and faculty members from special education, the East Midlands Chamber of Commerce, and members of the elderly community.

Robotic Tour Guide - Development of specialised Human-Robot Interaction experiences for Nottingham Trent University Open Days.

Outreach during PhD - additional activities during PhD research at Aston University included a meeting and AI discussion with Andy Street (Mayor of the West Midlands) as well as talks/demonstrations at events such as BrumAI, Brum Youth Trends, SME Live, West Midlands Forum for Growth, Aston HeadStart, and CompTIA.

Research Interests

My research interests include Artificial Intelligence, Human-Robot Interaction, Machine Learning, Deep Learning, Transfer Learning and Data Augmentation.

Many interesting technologies are developed in laboratories but stop short of helping in the real world, and my general research goals surround applying Artificial Intelligence to alleviate problems in the public sector.

Research Outputs

A full list of my publications can be found on [Google Scholar](#) and [ResearchGate](#).

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References

Dr. Isibor Ihianle, Senior Lecturer in Computer Science at Nottingham Trent University - isibor.ihianle@ntu.ac.uk

Dr. Pedro Machado, Senior Lecturer in Computer Science at Nottingham Trent University - pedro.machado@ntu.ac.uk

Prof. Aniko Ekárt, Deputy Head of Computer Science at Aston University - a.ekart@aston.ac.uk

Dr. Luis J. Manso, Lecturer in Computer Science at Aston University - l.manso@aston.ac.uk

Dr. Chloe M. Barnes, Lecturer in Computer Science at Aston University - c.barnes1@aston.ac.uk