Scott Turner
Computing, AI and Cyber Security

Research interests

Teaching

Dr. Turner has built a substantial academic teaching career spanning more than 25 years. His teaching has centred on artificial intelligence, programming, computer hardware, and research methods, with particular expertise in emerging technologies such as virtual and augmented reality and blockchain. His teaching innovations include introducing web-based VR/AR content into the curriculum, using robotics and Greenfoot for programming and problem-solving education, and developing spreadsheet-based approaches to teaching AI concepts. He also served as course tutor for the PGCert in Teaching in Higher Education, reflecting a strong commitment to developing teaching practice more broadly.

Research

Dr. Turner holds a PhD in Artificial Intelligence, Engineering and Neurophysiology from the University of Leicester, alongside an MSc in Biomedical Instrumentation Engineering (Dundee) and a BEng in Electronic Engineering (Hull). His early research, as a Research Assistant at Oxford, involved collaborating with Medisense (later acquired by Abbott Laboratories) on a non-invasive optical glucose monitor, work that produced multiple international patents across the UK, US, Europe, Canada, Australia, and Japan.

His subsequent research portfolio is broad, spanning computing education, AI applications in engineering, networking (including SD-WAN and vehicle-to-vehicle communication), affective computing, wearable sensor data analysis, and blockchain in education. He has supervised 16 PhD students to completion across these themes, and continues as a Visiting Research Fellow at Northampton. He has authored or co-authored a substantial body of peer-reviewed journal articles, conference papers, and book chapters — with recent work including explainable AI for ambient assisted living, deepfake detection, and multi-omics machine learning integration published in 2025 and 2026.

He also led development of a REF 2021 Impact Case Study on computing and coding skills in young people, and has been closely involved with the National Teaching Repository as Director of Data, a project that won both the 2023 Open Education Global Collaboration Award and the 2026 Collaborative Award for Teaching Excellence (CATE).

Qualifications

PhD, University of Leicester
Jan 1996 → Dec 1999
Award Date: 10 Jul 2020

Employment

Head of Computing, AI and Cyber Security

Computing, AI and Cyber Security
Canterbury Christ Church University
1 Aug 2025 → present

Director of Data

National Teaching Repository
1 Jan 2024 → present

Research outputs

Swarm Intelligence for Dynamic 3D Pollution Peak Detection Using Drones

Prior, O. J., Bin Azhar, M. A. H., Sahota, V. & Turner, S., 8 May 2026, p. 1962-1967. 6 p.

A review of multi-omics integration techniques across five machine learning method families

Olowolayemo, A., Souag, A., Sirlantzis, K., Turner, S. & Wilson, C., 15 Apr 2026, In: Bioinformatics Advances. 6, 1

Enhancing Explainability in Ambient Assisted Living Systems: A Grad-CAM and Hybrid Visualisation Approach

Kasirajan, M., Azhar, M. A. H. B. & Turner, S., 18 Nov 2025, In: 2025 IEEE 25th International Symposium on Computational Intelligence and Informatics (CINTI). p. 739-746 8 p.

M 3 X-AAL: A Multi-Modal, Multi-Tier, MetaExplainability Framework for Trustworthy AI in Ambient Assisted Living Systems

Kasirajan, M., Azhar, M. A. H. B. & Turner, S., 18 Nov 2025, In: 2025 IEEE 25th International Symposium on Computational Intelligence and Informatics (CINTI). p. 747-754 8 p.

Systematic Review: Real-time Deepfake Detection Integrating Blockchain
Ali, A., Musa, A., Sirlantzis, K. & Turner, S., 21 Oct 2025, p. 485-492.

#LTHEchat 324: Co-creation: unlocking the full potential of students as co-creators of projects in Higher Education
Turner, S. & Espinoza-Ramos, G., 2025

Design and implement a hybrid WebRTC signalling mechanism for unidirectional & bi-directional video conferencing
Al-Sherbaz, A., Turner, S. & Edan, N., 30 Sept 2024, In: International Journal of Computer Science & Network Security. 24 , 9, p. 186-194

Unveiling pollution peaks: Comparing swarm intelligence with Drone Hill Climber
Prior, O., Azhar, H., Sahota, V. & Turner, S., 19 Sept 2024, *2024 IEEE 22nd Jubilee International Symposium on Intelligent Systems and Informatics (SISY).* IEEE, p. 399-404

SocMedHE: More than a conference
Turner, S. & Honeychurch, S., 13 Aug 2024, In: The Journal of Social Media for Learning. 4, 1, p. 25-38

GenAI in the hands of experts: A qualitative study of academics' experiences and future recommendations
Malik, M., Nortcliffe, A., Turner, S., Abdel-Maguid, M. & Shah, R., 2024.

The role of use cases when adopting augmented reality into higher education pedagogy
Ward, G., Turner, S., Pitt, C., Qi, M., Richmond-Fuller, A. & Jackson, T., 2024.

Trustworthy insights: A novel multi-tier explainable framework for ambient assisted living
Kasirajan, M., Azhar, H. & Turner, S., 1 Nov 2023, *2023 IEEE 22nd International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom).* IEEE, p. 2554-2561

The National Teaching Repository − Sharing effective interventions: Learning from each other so that we can continue to enhance and improve what we do
Turner, S., Beckingham, S., Bullingham, L., Hartley, P., Cuthbert, K., Irving-Bell, D., Wooff, D., Tasler, N., Stinson, L. & Withnell, N., 28 Jun 2023, In: Educational Developments. 24, 2, p. 5-7

An intelligent routing approach for multimedia traffic transmission over SDN
Turner, S., Jameel, M. A., Kanakis, T., Al-Sherbaz, A., Bhaya, W. S. & Al-khafajiy, M., 9 Jan 2023, *Unknown Host Publication.* IEEE

The National Teaching Repository and social media
Turner, S., Faulkner, S. & Withnell, N., 2023.

Driver drowsiness detection using Gray Wolf Optimizer based on voice recognition
Turner, S., Sasim, S. S. & Hassan, A. K. A., 5 Dec 2022, In: ARO-The Scientific Journal of Koya University. 10, 2, p. 142-151

Optimizing artificial neural networks using LevyChaotic mapping on Wolf Pack optimization algorithm for detect driving sleepiness
Turner, S., Jassin, S. S. & Hassan, A. K. A., Sept 2022, In: Iraqi Journal of Computers, Communications, Control & Systems Engineering (IJCCCE). 22, 3, p. 128-136

A reinforcement learning-based routing for real-time multimedia traffic transmission over software-defined networking
Jameel, M. A., Kanakis, T., Turner, S., Al-Sherbaz, A. & Bhaya, W. S., 5 Aug 2022, In: Electronics. 11, 15, p. 2441

Driver drowsiness detection using Gray Wolf Optimizer based on face and eye tracking
Turner, S., Jasim, S. & Abdul Hassan, A., 12 May 2022, In: ARO-The Scientific Journal of Koya University. 10, 1, p. 49-56

Deep learning approach for real-time video streaming traffic classification
Turner, S., Jameel, M. A., Kanakis, T., Al-Sherbaz, A. & Bhaya, W. S., 15 Mar 2022, *2022 International Conference on Computer Science and Software Engineering (CSASE).* IEEE

#LTHEchat 243: Self exclusion – through digital inequalities
Turner, S., Ward, G. & Elliott, C., 2022

Practical ways to analyse Twitter data (quantitative and qualitative)
Turner, S. & Kelly, O., 2022.

Why should everybody learn Artificial Intelligence?
Turner, S. & Souag, A., 2022

Referencing within code in software engineering education
Turner, S. & Hill, G., 5 Jul 2021

Free augmented reality
Turner, S., 22 Feb 2021

#SocMedHE more than a conference
Turner, S., 2021.

Why everyone should learn a bit about Machine Learning
Turner, S., 2020.