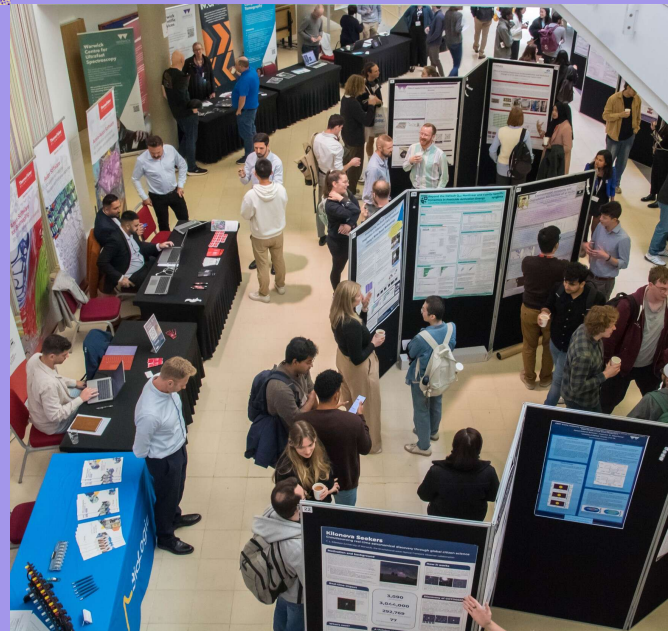




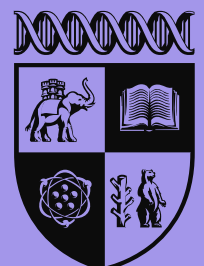
A one-day programme of talks, posters and conversations across science, engineering and medicine.



# BUILD BEYOND BOUNDARIES

2 July 2026  
Zeeman Building  
Symposium Programme

[warwick.ac.uk/pds](http://warwick.ac.uk/pds)



# Welcome from the Conference Chair

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Faculty of Science, Engineering and Medicine Early Career Researcher Symposium 2026.

It is my pleasure to welcome you to the Faculty of Science, Engineering and Medicine Early Career Researcher Symposium 2026.

This year's symposium brings together early career researchers from across the Faculty to share their work, exchange ideas, and build connections across disciplines. We are delighted to have received such a strong response, with a wide range of submissions, posters, flash talks, invited talks, and contributions from researchers, technicians, engineers, and colleagues at different stages of their careers.

The symposium is intended not only as a platform for presenting research, but also as an opportunity to recognise the breadth of talent across the Faculty and to encourage conversations that may lead to future collaborations. I hope the day provides a welcoming and useful space for presenters and attendees alike.

I would like to thank all authors, reviewers, speakers, session chairs, panellists, and attendees for their contributions. I am also very grateful to the organising committee for their time, effort, and support in preparing the symposium, and to the Faculty and University of Warwick Press for helping make this event possible.

I hope you enjoy the symposium and take the opportunity to meet colleagues from across the Faculty.

**Mahyar Koshkouei**

Conference Chair

Faculty of Science, Engineering and Medicine Early Career Researcher Symposium 2026

# Contents

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A compact guide to the symposium programme, speakers, presenters, committee and reviewers.

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# Useful information

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The essentials for attending, presenting and following the symposium.

**Date and venue**

Thursday 2 July 2026 at MS.02, Zeeman Building.

**Registration**

Registration is free but required. Please register at [warwick.ac.uk/pds](http://warwick.ac.uk/pds).

**Audience**

Postdoctoral researchers and other ECRs from across FSEM are warmly encouraged to attend.

**Why attend**

The symposium offers opportunities for networking, career development, cross-faculty connections, and hearing from ECRs across departments.

**Format**

Keynote, invited talks, selected flash talks, poster sessions, networking, careers panel and awards.

**Flash talks**

Each selected flash talk is 5 minutes plus 2 minutes for Q&A. Running order will be confirmed separately.

**Proceedings**

Authors who present their work at the symposium will have their papers included in conference proceedings supported by University of Warwick Press.

**Awards**

ECR awards will be made for Best Paper, Best Oral Presentation and Best Poster Presentation.

# Schedule at a glance

One-day programme. The poster session has been extended for additional viewing, networking and discussion.

<b>09:30-09:50</b>	<b>Arrival and registration</b> Registration and informal networking.
<b>09:50-10:00</b>	<b>Welcome and opening remarks</b> Professor Mark Williams.
<b>10:00-10:40</b>	<b>Keynote talk</b> Professor Rachel Edwards: Seeing Sound.
<b>10:40-11:00</b>	<b>Invited speaker</b> Dr Alex Baker: Out with the Antibody.
<b>11:00-11:45</b>	<b>Selected flash talks: session 1</b> Six flash talks. Each talk is 5 minutes plus 2 minutes for Q&A. Chair: Dr Duygu Sap.
<b>11:45-12:00</b>	<b>Invited speaker</b> Dr Gareth (Gaz) Johnson: Regenerating the University of Warwick Press.
<b>12:00-13:00</b>	<b>Lunch and poster session</b> Lunch, poster viewing, stalls and networking.
<b>13:00-13:50</b>	<b>Selected flash talks: session 2</b> Six flash talks. Each talk is 5 minutes plus 2 minutes for Q&A. Chair: Dr Kyrilo Melnyk.
<b>13:50-14:10</b>	<b>Invited speaker</b> Dr Radu Cimpeanu: Growing next generation food sources using computational fluid dynamics.
<b>14:10-14:30</b>	<b>Invited speaker</b> Professor Stéphanie Panichelli-Batalla: Sustainable Research in Practice.
<b>14:30-15:20</b>	<b>Break and extended poster session</b> Poster viewing, stalls and networking.
<b>15:20-16:10</b>	<b>Careers panel</b> Panel discussion and audience Q&A, chaired by Dr Gloria Zhao.
<b>16:10-16:50</b>	<b>Selected flash talks: session 3</b> Five flash talks. Each talk is 5 minutes plus 2 minutes for Q&A. Chair: Dr Kunal Manna.
<b>16:50-17:10</b>	<b>Closing remarks and awards</b> Professor Michael D Ward.

# Keynote and invited speakers

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Talks and perspectives from invited contributors across the programme.



## Professor Mark Williams

### Welcome and opening remarks

*Deputy Chair (Research), Faculty of Science, Engineering and Medicine*

Professor Mark Williams is head of the Metrology and Visualisation research group at Warwick Manufacturing Group (WMG) at The University of Warwick and Principal Investigator of the High-Resolution X-ray CT scanning work. Prof Williams is an international expert in measurement systems and 3D scanning technology and has published over 150 technical papers in peer-reviewed research Journals and has presented at numerous international conferences. He holds an honours degree in Mechanical Engineering, a Masters in Manufacturing Technology and a PhD from the University of Manchester Institute of Science and Technology (UMIST). Professor Williams has been elected as Fellow of the Royal Academy of Engineering (FREng). He is also a Chartered Engineer with the UK Engineering Council with over 20 years experience working in the Automotive, Aerospace, Defence and Healthcare sectors, a Fellow of the Institution of Mechanical Engineers (FIMechE), a professional Member (MCSFS) of The Chartered Society of Forensic Sciences (CSFS), and an associate member of the British Association in Forensic Medicine (BAFM). He has worked on over 400 police investigations and received a Chief Constable award from West Midlands Police in February 2017 for the application of “ground breaking 3D printing and scanning technology”. In April 2016 he also received an achievement medal for the application of Engineering principles within Forensic Science from the Institution of Engineering Technology (IET).



## Professor Rachel Edwards

### Keynote speaker

*Seeing Sound*

Rachel Edwards is a member of the Ultrasound Group in Physics, and Deputy Head of Physics (with responsibility for Inclusion, Outreach and Engagement). She is a Senior Fellow of the Warwick Institute of Engagement, following 5 years working as Associate Academic Director and then Faculty Public Engagement Lead. Her research looks at different applications of ultrasound, with a primary focus on non-destructive testing. She really enjoys doing outreach and public engagement and has embedded that into an academic career.



## Dr Alex Baker

### Invited speaker

*Out with the Antibody*

I am the principal investigator of the Baker Humanitarian Chemistry Group (BHCG). Our research focuses on applying synthetic organic chemistry, peptidomimetics, and glycochemistry to create medical diagnostics and therapeutics for low-resource settings. This is supported by extensive public engagement activities, reaching tens of thousands nationally, media work reaching >250 million internationally, and governance responsibilities focused on holistic approaches to research culture and engagement. I am a senior WIE founding fellow, WIHEA Alumni fellow and HEA fellow. I have won multiple prizes and competitive fellowships in research (~£3 million in funding, excluding PhD scholarships), teaching, governance and engagement; notably the RSC Horizon Prize in 2022, Leverhulme Early Career Fellowship in 2023, RSC Early Career Prize for Excellence in Higher Education in 2024, British Science Association Physical Sciences and Mathematics Award in 2025, and EPSRC Open Plus Fellowship in 2025 - one of the largest investments UKRI has made in snakebite research.



## Dr Gareth (Gaz) Johnson

### Invited speaker

*Regenerating the University of Warwick Press: Impetus, Insights & Possibilities*

Dr Gareth 'Gaz' Johnson is the University of Warwick Press' Manager, where he's currently overseeing a year-long strategic review project. He has a decades long heritage in open publishing, and until recently worked at Warwick's IAS as the Managing Editor-in-Chief of the Exchanges research journal. His professional and research interests centre on the cultural tensions, power-dynamics and motivations extant across the scholarly communications landscape.



## Dr Radu Cimpanu

### Invited speaker

*Growing next generation food sources using computational fluid dynamics*

Dr. Radu Cimpanu is an Associate Professor (Reader) in Applied Mathematics at the University of Warwick specialising in mathematical modelling of real-world systems. He has spent several years at Imperial College London (2011-2017), before taking on the Hooke Research Fellowship at the University of Oxford Mathematical Institute (2017-2019), and was appointed to his position at Warwick in 2019. His primary research interests lie at the intersection between fluid mechanics, scientific computing and numerical solutions for partial differential equations, with a particular emphasis on knowledge transfer and industrial mathematics. He is currently Deputy Director of the , executive committee member of the , and UKRI National Fellowships in Fluid Dynamics ( ) programme committee member, while also acting as Deputy Director of the Centre for Applications of Mathematical and Computing Sciences ( ) and departmental champion in the .



## Professor Stéphanie Panichelli-Batalla

### Invited speaker

*Sustainable Research in Practice: Supporting ECRs*

Stéphanie Panichelli-Batalla is a Professor in Global Sustainable Development at the University of Warwick and the University's Academic Director for Sustainability, leading the University's Sustainability Strategy, with a particular focus on Education, Research, and Engagement. Previously, she was the Head of the School for Cross-Faculty Studies, where she focused on the growth of the UG and PG programmes in the different departments of the School (Global Sustainable Development and Liberal Arts), while also setting up more recently a new division in Design Studies as well as providing support to the growth of the School's research Institute, the Institute of Global Sustainable Development.



## Professor Michael D Ward

### Closing remarks and awards

*Vice-Provost and Chair of the Faculty of Science, Engineering and Medicine*

Professor Michael D Ward is Vice-Provost and Chair of the Faculty of Science, Engineering and Medicine. Mike obtained a BA in Chemistry from the University of Cambridge in 1986. This was followed by a PhD from the same institution in 1989, after which he became a postdoctoral research associate at the Université Louis Pasteur de Strasbourg. In 1990 he was appointed as Lecturer at the University of Bristol, where he was subsequently promoted to Reader and Professor. In 2003 he was appointed as professor of Inorganic Chemistry at the University of Sheffield. He was Head of Department of Chemistry from 2007 to 2011 and again in 2015. Mike was appointed Professor of Inorganic Chemistry and Head of Department of Chemistry at the University of Warwick from 2017 to 2023; and is currently Vice-Provost and Chair of the Faculty of Science, Engineering and Medicine. Mike's research interests are based on coordination and supramolecular chemistry of transition metal and lanthanide complexes, with a particular emphasis on photo physical properties and host-guest chemistry of coordination cages.

# Careers panel

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Panel guest profiles.



## Dr Sarah Bennett

### Careers panel

*Head of Bio-Analytical Shared Resource Laboratory, University of Warwick*

Dr Sarah Bennett is a technical specialist, manager and advocate for positive research culture, with over 20 years' experience in higher education and scientific research environments. Her career spans multiple disciplines, including a decade as an oceanographic researcher investigating chemical and microbial processes at deep-sea hydrothermal vents. In 2015, Sarah was instrumental in the planning and delivery of a cutting-edge research technology facility (£3.2 million BBSRC/EPSRC funds) and has since led its development and long-term sustainability within the School of Life Sciences at the University of Warwick. As Head of the Bio-Analytical Shared Resource Laboratory, she combines strategic leadership with hands-on technical expertise. As well as managing and leading the facility, she provides technical expertise in liquid handling automation, providing expert support in designing, developing and optimising automated workflows for a range of research application.



## Dr Joe Healey

### Careers panel

*Founder and CTO, NanoSyrinx Ltd*

Dr. Joe Healey is the Founder, former CEO, and now CTO of NanoSyrinx Ltd, an innovative synthetic biology spin-out from the University of Warwick, engineering novel bacterial "Nanosyringes" for targeted delivery of therapeutic proteins. Since the company founding, Joe has raised ~£20M to advance its innovative technology from top-tier investors including Eli Lilly, BGF, Octopus Ventures, MVentures, IQ Capital, Jonathan Milner and more. Prior to founding the company Joe completed his PhD in Mathematical Biology & Biophysical Chemistry, at the University of Warwick and founded the company during his studies, submitting a thesis on the Nanosyringe technology and its fundamental biology. Prior to this, he completed his Masters degree at Warwick and a Biology honours degree at Aberystwyth University. In addition to his role with NanoSyrinx, Joe was also elected to the UK Government's Engineering Biology Steering Group in 2024, and is a Venture Partner with Saras Capital LLP.



## Connor Mattinson

### Careers panel

*Co-founder and CTO, TRUSS*

I'm an ex-Warwick maths masters student, I founded Warwick AI society, then co-founded a company called TRUSS (truss.fashion) as CTO amongst 3 other ex-Warwick co-founders. We collect hundreds of millions of secondhand fashion listings from dozens of online sites, and process them to make our products such as image-based item pricing, and supplying insights to major luxury fashion houses. We've conducted collaborative research with CAMaCS to improve our visual search for which we published a paper. The majority of our work is now heavily automated by agentic AI, covering everything from scraping, data processing pipelines and active learning pipelines.



## Michael Mawby

### Careers panel

*CEO and Co-founder, KuasaSemi*

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Michael Mawby MEng CEng – CEO & Co-founder Michael Mawby is CEO and co-founder of KuasaSemi, where he has been working full time since June 2023. He holds a First Class MEng in Electrical and Electronic Engineering from Newcastle University and is a Chartered Engineer. Michael has built his career in power electronics and wide bandgap semiconductor technologies, with experience spanning automotive, renewable energy, and smart grid applications. Prior to founding KuasaSemi, he held engineering roles at Lyra Electronics, McLaren Automotive, Turbo Power Systems, and Ricardo, where he contributed to advanced powertrain and electrification projects. Alongside his technical background, Michael has developed strong commercial and leadership expertise through company, KuasaSemi, focusing on company growth, internationalisation, and strategy. In 2024, he was named in the Cornwall Chamber of Commerce “Thirty Under Thirty,” recognising his impact in leadership and innovation.

# Stands

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Facilities, services and university programmes represented during the symposium.

Please visit the stands during lunch and the extended poster session to learn more, ask questions and explore opportunities for support, collaboration and engagement.

## **X-ray Computed Tomography RTP (XCT RTP)**

The X-ray Computed Tomography Research Technology Platform provides non-destructive 3D imaging and image analysis for a wide range of samples, from large metallic objects to high-resolution studies of fine internal features. The team supports researchers with CT scanning, data analysis and experimental design, and welcomes informal conversations about how CT could support new or existing research projects.

## **STEM Connect**

STEM Connect is Warwick's major programme to reimagine STEM research and teaching spaces. The programme is creating new facilities designed to support collaboration, co-creation and interdisciplinary working across science, engineering and related fields. Visit the stand to learn more about the future Science and Engineering Precinct and how the programme will shape the research environment at Warwick.

## **Nanofabrication RTP**

The Nanofabrication Research Technology Platform supports the fabrication of micro- and nano-scale devices and structures. Its facilities include cleanroom-based equipment for processes such as deposition, lithography, etching, wet processing, metrology and thermal treatment. The stand is an opportunity to discuss whether nanofabrication techniques could support your research, including for prototyping, device fabrication and exploratory trials.

## **Sustainable Development**

The Sustainable Development stand highlights Warwick's work on environmental sustainability, sustainable research practice and the University's wider sustainability strategy. Attendees can find out more about initiatives such as sustainable laboratory practice, the Concordat for Environmental Sustainability in Research and Innovation Practice, and opportunities for researchers to embed sustainability into the way research is designed and delivered.

## **Warwick Innovations**

Warwick Innovations supports University of Warwick researchers in developing the economic, social and environmental impact of their ideas. The team provides advice on commercialisation, intellectual property, funding, proof-of-concept support, spin-out pathways and innovation training. Visit the stand to discuss how research ideas can be protected, developed and translated beyond academia.

# Committee members

The FSEM ECR Symposium organising committee.



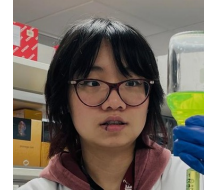
**Dr Barbara Abreu**  
Research Fellow in Computational  
Biology/Biophysics, SLS



**Dr Carlo Ferri**  
Research Fellow in Automation  
Systems, WMG



**Dr Mahyar Koshkouei**  
**(Chair)**  
Research Fellow in Battery Testing and  
Characterisation, WMG



**Dr Criska Li**  
Research Fellow, School of Life  
Sciences



**Dr Kawa Manmi**  
Research Fellow, Warwick  
Mathematics Institute (WMI)



**Dr Kunal Manna**  
Research Fellow, WMG



**Dr Kyrilo Melnyk**  
Researcher in power semiconductor  
devices, University of Warwick



**Dr Fateme Mirzaee**  
Research Fellow, Warwick Medical  
School Clinical Trials Unit



**Dr Mohamed Mohamed**  
Research Fellow in Energy Storage  
Control, WMG



**Dr Puritut (Oat) Nakhavvej**  
Research Fellow in Forensic Analysis  
of Batteries, WMG



**Dr Duygu Sap**  
Research Fellow, Centre for  
Applications of Mathematical and  
Computing Sciences, Warwick  
Mathematics Institute



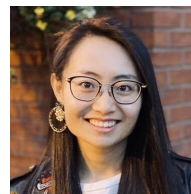
**Dr Ravi Prakash Singh**  
Research Fellow, Warwick  
Mathematics Institute (WMI) and WMG



**Dr Victoria Sodré**  
Research Fellow in  
Enzymology/Biotechnology



**Dr Anjana Wijesekara**  
Research Fellow, Physics



**Dr Gloria Zhao**  
Research Fellow in Physics



**Dr Evelien Zwanenburg**  
Research Fellow, WMG

# Flash-talk presenters

Selected paper presenters. Each flash talk is 5 minutes plus 2 minutes for Q&A.

- **Miles Postings** (Chemistry)  
Metallohelices have Antifungal Activity against *Candida albicans*  
Authors: Miles Postings (University of Warwick)\*; John Moat (University of Warwick); Peter Scott (University of Warwick)
- **Bin Zhu** (Engineering)  
From Line Geometry to Prototype: A Systematic Conceptual Design Method for Parallel Robots  
Authors: Bin Zhu (University of Warwick)\*
- **Robab Aghazadeh Chakherlou** (WMG)  
Reusing Operational Evidence After Context Changes: A Conservative Bayesian Framework for Autonomous Vehicle Safety  
Authors: Robab Aghazadeh Chakherlou (WMG, University of Warwick)\*; Siddhartha Khastgir (WMG, University of Warwick); Xingyu Zhao (WMG, University of Warwick)
- **Trusna Meher** (WMG)  
Classifying AGV Missions and Remote Agent Functions They Require  
Authors: Trusna Meher (University of Warwick)\*; Kim Soyeon (University of Warwick); Mariat James Elizebeth (University of Warwick); Siddhartha Khastgir (University of Warwick); Paul Jennings (University of Warwick)
- **Maria Bekker-Nielsen Dunbar** (Life Sciences)  
Overview review of risk factors for avian influenza in Indonesia  
Authors: Maria Bekker-Nielsen Dunbar (University of Warwick)\*
- **Katherine Stokes** (Psychology)  
From Composition to Choice: Mapping Research on Potential Chemical Exposure from Menstrual Products  
Authors: Katherine Stokes (University Of Warwick)\*
- **Cristina Madurga Favieres** (Physics)  
Testing the exocometary bow shock model by analysing the variability in the AI III line around Beta Pictoris  
Authors: Cristina Madurga Favieres (University of Warwick)\*; Paul Strøm (University of Warwick); Thomas G Wilson (University of Warwick)
- **Tom White** (Psychology)  
Childhood, Parenthood and the Grave: Collectors' Past and Future Identities  
Authors: Thomas White (University of Warwick)\*
- **Matthew Adeoye** (Statistics)  
Statistical Methods for Assessing the Effect of Rice Cultivation on Abundance of Mosquito Larvae: A Randomized Field Trial  
Authors: Matthew Adeoye (University of Warwick)\*; Kallista Chan (London School of Hygiene & Tropical Medicine); Christian Bottomley (London School of Hygiene & Tropical Medicine)
- **Duc Nguyen** (WMG)  
A Mini-Review on Deep Learning Models in Heterogeneous Multirobot Systems for Smart Agriculture  
Authors: Duc Nguyen (WMG)\*
- **Mehmet Onur Şahin** (WMG)  
International Defence Industrial Collaboration in the Nordic Countries  
Authors: Mehmet Onur Şahin (University of Warwick)\*
- **Yi Zhang** (WMG)  
Probabilistic Robustness in Medical Image Classification  
Authors: Yi Zhang (University of Warwick)\*; Xingyu Zhao (University of Warwick); Siddhartha Khastgir (University of Warwick)
- **Elaine Falconer** (WMG)  
Beyond Systems Thinking: A Practitioner-Centred Approach to Engineering Project Complexity  
Authors: Elaine Falconer (University of Warwick)\*
- **Linda Varghese** (Life Sciences)  
Neuronal TRPM2 channels Transduce Diverse Acute Pain  
Authors: Linda Varghese (UNIVERSITY OF WARWICK)\*
- **Yee-Lap To** (Psychology)  
Latent physical activity profiles of people with chronic pain: Associations with pain severity, sleep and accelerometer-measured rest-activity rhythm  
Authors: Yee-Lap To (University of Warwick)\*
- **Zeeshan Raza** (Warwick Medical School)  
Proof-of-Concept – Real OP Study: Measuring Surgeon Stress During Robotic and Laparoscopic Colorectal Surgery  
Authors: Zeeshan Raza (University of Warwick)\*
- **Inge Hill** (WMG)  
Investigating place-based innovating practices in micro-manufacturing rural enterprises - Reflection on successful fieldwork with ethnographic methods, the example of Scotland/UK  
Authors: Inge Hill

# Poster presenters

50 posters are listed: 41 accepted paper posters and 9 abstract-only posters.

## Paper Posters

- **Katherine Stokes** (Psychology)  
A Structured Video-Annotation Framework for Quantifying Infection Transmission Pathways in Social Interactions  
Authors: Katherine Stokes (University Of Warwick)\*
- **Benjamin Costello** (Warwick Medical School)  
Collaboration with Children and Families in Intellectual Disability Research: Shared Learning on PPIE and Co-Production  
Authors: Benjamin Costello (University of Warwick)\*; Nicky Thomas (University of Warwick); Daniel Sutherland (University of Warwick); Kayla Smith (University of Warwick); Aamina Khan (University of Warwick); Harshpreet Kaur (University of Warwick); Sunita Kaur (University of Warwick); Oliver Robbins (University of Warwick); Clare Barton (University of Warwick); Hayley Crawford (University of Warwick)
- **Jingyi Zhao** (WMG)  
Mixing optimisation of Li-ion battery cathodes – The difficult case of LMFP  
Authors: Jingyi Zhao (WMG, University of Warwick); Rebecca Sellers (WMG, University of Warwick); Louis Piper (WMG, University of Warwick); Gerard Bree (WMG, University of Warwick)\*
- **Matthew Adeoye** (Statistics)  
Simulation-based Inference for Stochastic and Deterministic Epidemic Models  
Authors: Matthew Adeoye (University of Warwick)\*; Simon Spencer (University of Warwick); Xavier Didelot (University of Warwick)
- **Bashayer Abdallah** (Computer Science)  
Leveraging Monocular Depth Estimation for Geometry-Aware Subsea Leak Classification in Underwater Inspection Imagery  
Authors: Bashayer Abdallah (University of Warwick)\*
- **Yee-Lap To** (Psychology)  
Classifying Clinical Insomnia Using Actigraphy-derived 24-hour Rest–Activity Features in Individuals with Chronic Pain  
Authors: Yee-Lap To (University of Warwick)\*
- **Yee-Lap To** (Psychology)  
Daily Associations of Sleep and Rest-activity Patterns with Pain Intensity in Adults with Chronic Pain  
Authors: Yee-Lap To (University of Warwick)\*
- **Haoxin Peng** (Chemistry)  
Interface-engineered MIL-101(Cr)@PEI mixed matrix membranes with ultrathin separation layers for antibiotic rejection  
Authors: Haoxin Peng (university of Warwick)\*; Qiang Chen (Beijing university of technology)
- **Rachel Kane** (Engineering)  
Rejection-Free Monte Carlo Sampling for Path Integral Quantum Mechanics  
Authors: Rachel Kane (University of Warwick)\*; Michael Faulkner (University of Warwick)
- **Surya Tejas Vasuki** (Computer Science)  
Ant Colony Circuit Optimization for Quantum Teleportation on NISQ Devices  
Authors: Surya Tejas Vasuki (University of Warwick)\*
- **Aditya Jain** (WMG)  
Trust but Verify: Evaluating LLMs as Security Auditors for Terraform Infrastructure-as-Code  
Authors: Aditya Jain (Warwick)\*
- **Anmol Pandey** (WMG)  
LoRA Adapter Interpolation for Canary Extraction Mitigation: A Cross-Model and Adaptive-Attack Study  
Authors: Anmol Pandey (University of Warwick)\*
- **Dawood Butt** (WMG)  
Hidden Degradation Costs in Energy-Cost-Only HEMS Optimization: Study on Battery and PV Sensitivity  
Authors: Dawood Butt (University of Warwick)\*; Nandor Verba (University of Warwick)
- **George Bashour** (WMG)  
Dietary Risk of Cancer in the United Kingdom: A Systematic Review from the UK Biobank  
Authors: George Bashour (University of Warwick)\*; Nour Samaan (Cancer Research Center, Tishreen University)
- **Harish Kumar Gopalakrishnan** (WMG)  
Synthetic Identity Risk Management: Strategic Defences Against AI-Generated Identities in Banking  
Authors: Harish Kumar Gopalakrishnan (University of Warwick)\*
- **Nazneen Naveed Sait** (WMG)  
Antimicrobial Stewardship as Healthcare Infrastructure: Navigating the Tension Between Clinical Outcomes and System Sustainability  
Authors: Nazneen Naveed Sait (University of Warwick)\*; Vignesh Krishnadoss (Ivane Javakhisvili Tbilisi State University)
- **Zahra Pourmohammadi Novin** (WMG)  
Effect of chemical composition on the microstructural characteristics and mechanical properties of Ag-based brazing fillers  
Authors: Zahra Pourmohammadi Novin (WMG, University of Warwick)\*
- **Samuel Nassiri-Shahroudi** (Computer Science)  
Emergent Coordination Dynamics in the Networked Minority Game with Reinforcement Learning  
Authors: Samuel Nassiri-Shahroudi (University of Warwick)\*
- **Akanksh Caimi** (WMG)  
Diagnosis of Reward-Based Hallucination Mitigation in Large Language Models  
Authors: AKANKSH CAIMI (University of Warwick)\*
- **Guo Gen Ang** (WMG)  
Designing Governable Offline Penetration Testing with the Model Context Protocol  
Authors: Guo Gen Ang (University of Warwick)\*

- **Sanjana Neogi** (WMG)  
Strategic Management of NHS Hospital Parking  
Authors: Sanjana Neogi (University of Warwick)\*
- **Ani Bitri** (Computer Science)  
Empirical Study of Approximate Nearest Neighbour Methods Across Data Regimes  
Authors: Ani Bitri (University of Warwick)\*
- **Izabela Stevenson** (Life Sciences)  
Mini-review: The necessity of developing diabetes-mimicking in vitro wound models  
Authors: Izabela Stevenson (University of Warwick)\*
- **Jacob MacLeod** (WMG)  
RoadMarkResUNet: An Optimised Residual U-Net Model with Channel Attention for Real-Time Road Marking Binary Segmentation  
Authors: Jacob MacLeod (University of Warwick)\*
- **Keira MacDonald** (Computer Science)  
A Dual-Path Neuromorphic Architecture for Risk-Adaptive Continuous Glucose Monitoring  
Authors: Keira MacDonald (University of Warwick, University of Western Ontario)\*
- **Keira MacDonald** (Computer Science)  
Abstract Behavioural Events as Computational Signals: A Review of Social Learning, Role Adaptation, and Neural Computing  
Authors: Keira MacDonald (University of Warwick, University of Western Ontario)\*
- **Safah Sharif** (Engineering)  
Design and Evaluation of a Low-Cost Haptic Teleoperated Robotic Hand using a Wearable Sensor Glove  
Authors: Safah Sharif (University of Warwick)\*
- **Bharath Sadasivaiah** (WMG)  
Post-Quantum Secure Messaging for Digital Sovereignty: A Keybase-Inspired Proof-of-Concept Using ML-KEM and ML-DSA  
Authors: Bharath Sadasivaiah (University of Warwick)\*; Sandy Taramonli (University of Warwick)
- **Haoguang Mai** (Engineering)  
Practical implementation methodology for reinforcement modelling and progressive 2D to 3D aircraft tyre simulation in Abaqus  
Authors: Haoguang Mai (Warwick University)\*; Ken Mai (Warwick University)
- **Youchao Chen** (Life Sciences)  
Wearable Biosensors for Real-Time Disease Monitoring: Current Applications, Technical Challenges, and Future Perspectives  
Authors: Youchao Chen (Warwick University)\*
- **Chun Chiu** (WMG)  
Magnetron Sputtering Deposition of Highly Controlled, Meta-material Core-Shell Particles  
Authors: Chun Chiu (University of Warwick)\*; Daniela Proppentner (University of Warwick); Claire Dancer (University of Birmingham); Tara Schiller (University of Warwick)
- **Syamaidzar Syamaidzar** (Chemistry)  
Synthesis and Characterisation of Mixed-Component Metal–Organic Frameworks Based on Phenanthroline and Terephthalic Acid  
Authors: Syamaidzar Syamaidzar (University of Warwick)\*
- **Syamaidzar Syamaidzar** (Chemistry)  
Ni-MOF-Modified Screen-Printed Carbon Electrode for Non-Enzymatic Electrochemical Urea Sensor  
Authors: Syamaidzar Syamaidzar (University of Warwick)\*
- **Md Saimul Islam** (Warwick Medical School)  
Burden of Depression, Anxiety and Stress among Older Adults in South and Southeast Asia: A Systematic Review and Meta-Analysis  
Authors: Md Saimul Islam (University of Warwick)\*
- **Chutian Yu** (WMG)  
The Eerie Avatar: Interactive Dissonance as an Epistemological Tool in Video Games  
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- **Nakaran Inpik** (WMG)  
AI Adoption Is Not Transformation: How SMEs Convert AI into Sustainable Value  
Authors: Nakarin Inpik (Warwick Manufacturing Group, University of Warwick)\*
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Constraint-Aware Evaluation of Portfolio Construction Methods Across Market Regimes  
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Cluster-Membership Entropy Does Not Add Predictive Value Beyond Features in Unsupervised PCOS Subtyping  
Authors: Riya Singla (University of Warwick)\*
- **Ravi Singh** (WMG)  
Integrated Procurement, Cost Estimation, and Construction Technology Assessment for Affordable Housing Development  
Authors: Ravi Singh (WMG)\*; Dheeraj Kumar Singh (Coventry University); Alice Ogunlolu (Coventry University)
- **Carlo Ferri** (WMG)  
Industrial Cyber-Physical System for Automated Torque Testing of Aerospace Spherical Bearings  
Authors: Carlo Ferri (University of Warwick)\*; Suresh Thirupathiraj (University of Warwick); Adam Walton (University of Warwick)
- **Carlo Ferri** (WMG)  
Software-Defined Automation Architecture for AI-Based Industrial Vision Systems  
Authors: Gaurav Semwal (University of Warwick); Carlo Ferri (University of Warwick)\*; Alper Sensoy (University of Warwick); Robert Harrison (University of Warwick)

## Abstract-Only Posters

- **Alex Kaye** (Life Sciences)  
From individual thresholds to collective hysteresis: a mechanistic model of the dawn chorus
- **Hamidreza Farhadi Tolie** (WMG)  
Can a Neural Network Read XRD Like a Materials Scientist? Probing What Deep Models Learn from Operando Diffraction
- **Begum Gulsoy** (WMG)  
Real-time Monitoring of Core Temperature and Internal Pressure During Thermal Runaway
- **Amir Cheshmehzangi** (WMG)  
Smarter Steel: Eliminating waste in the race to net zero, An adaptive digital twin framework for sustainable steel forming
- **Megan Clement** (WMG)  
Enhanced Spectroscopy Analyses to detect HDPE/LDPE and HDPE/PP Blends
- **Sarah Fatima Bhutta** (WMG)  
Modelling and Optimisation of Battery Electrode Slurry Preparation Process by Extrusion
- **Sara Dehghani** (WMG)  
Runtime Assurance Monitoring of Machine Learning-Based Battery Electrode Inspection in Manufacturing
- **Kourosh Lotfi** (Physics)  
Temperature Power Spectrum of the CMB and Bayesian Inference of Cosmological Parameters
- **Denis Oakley** (WMG)  
A New Model for UK Research Commercialisation

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