

**Joint UKRI CDT Conference**  
in  
**Artificial Intelligence, Machine Learning & Advanced Computing**  
**Interactive Artificial Intelligence / Practice-Oriented Artificial Intelligence**  
**24 - 25<sup>th</sup> June 2025**

<b>Tuesday 24<sup>th</sup> June</b>	
<i>Academic talks 30mins plus 5mins questions / Students talks 15mins plus 5mins for questions</i>	
<b>AI across domains</b>	
9:45	Registration and Welcome
9:55	David Walters (Met Office) – AI in weather prediction
10:30	Michalis Smyrnakis (Hartree) – AI for Diverse Applications from Industry and Public Sector
<b>11:05</b>	<b>Break</b>
<b>AI in Health/Algorithms</b>	
11:25	James Cussen (Bristol) – Using expert knowledge when learning causal DAGs
12:00	Rhiannon Owen (Bangor) – Empathetic design in dementia care
12:20	Luke Golby (Swansea) – Identifying and assessing miRNA adjuvant-therapies for drug-resistant cancer treatment
12:40	Natalia Sikora (Swansea) – ColonScopeX: Leveraging explainable expert systems with multimodal data for improved early diagnosis of colorectal cancer
<b>13:00</b>	<b>Lunch</b>
<b>AI Algorithms</b>	
14:00	Alex Davies (Bristol): Intro to Graph Neural Networks
14:35	Matthew Powell (Cardiff) – Configuring Role-Based Stance Detection across open and closed weighted LLMs,
14:55	Chanju Park (Swansea) – Hyperparameter tuning based on the dynamics of eigenvalues during stochastic gradient descent updates
15:15	Zara Siddique (Cardiff) – Shifting Perspectives: Steering Vectors to Reduce Bias in LLMs
<b>15:35</b>	<b>Break</b>
15:55	Diaa Eddin Habibi (Swansea) – Diffusion Models and Lattice Field Theory
16:30	Will Robinson (Aberystwyth) – Traps and Pitfalls of Generative AI in Software Research
<b>16:50</b>	<b>Close</b>

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<i>Academic talks 30mins plus 5mins questions / Students talks 15mins plus 5mins for questions</i>	
<b>AI in Science</b>	
09:00	Christoph Weniger (Amsterdam) – European Coalition for AI in Fundamental Physics and the Dark Universe
09:35	Thomas Rintoul (Cardiff)- Cosmological Simulations of ram pressure stripping of satellite galaxies
09:55	Tanya Kushwahaa (Cardiff) – Machine Learning for Classifying AGB Stars in Gaia DR3
10:15	Jeronimo Segal (Bristol) – Fast Machine Learning Algorithms for data selection at the LHC
10:35	<b>Break</b>
<b>AI in Society</b>	
10:55	Aled Lloyd Owen (Southampton) – Responsible AI UK
11:30	Stephanie Ferry (Welsh Government) – Cyber Leadership in Wales
11:50	Leena Sarah Farhat (Bangor) – Towards a Universal Translator for Survey Science
12:10	Glory Ogbonda (Bangor) – "EmployODR", an AI-enhanced system for recommending online dispute resolution
12:30	<b>Lunch</b>
<b>AI in Science</b>	
13:30	Arron Lacey (Swansea) – AI and data science in health care
14:05	Grant Stevens (Bristol) – Stable diffusion for in-painting galaxies as a form of AGN classification with Euclid observation
14:40	Sony Malhortra (STFC) – Automated deep learning based filtering of particle images in single particle cryoEM
15:15	<b>Break</b>
<b>AI in Scientific Research</b>	
15:45	Enrico Rinaldi (Quantinuum) -- Quantum computing and AI
16:20	David Barton (Bristol) – Scientific machine learning
16:55	Karl Harrison (DiRAC) – AI engineering for research with the Dawn supercomputer

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<b>From Academic Research to Industry</b>	
17:30	Cory Thomas (Aber) – Experiences as a CDT student
17:50	Panel Discussion
19:30	<b>Evening Meal – Radisson Restaurant</b>