



UKRI AI IN HEALTH & SOCIAL CARE SYMPOSIUM

27 June 2024

WELCOME!



UK Research
and Innovation



TIME	ACTIVITY
13:45	Welcome from Responsible Ai UK's CEO <i>Professor Sarvapali (Gopal) Ramchurn</i>
13:55	Introduction to RAi UK Health and Social Care Working Group <i>Prof. Prokar Dasgupta OBE, Chair, Professor of Surgery, King's Health Partners,</i>
14:05	Genomics and AI <ul style="list-style-type: none"> ▪ <i>Prof. Anthony Williams, Clinical Director, Central and South Genomic Medicine Service Alliance.</i> ▪ <i>Prof. Sarah Ennis, Research Director, Central and South Genomic Medicine Service Alliance</i>
14:25	Artificial intelligence (AI) in multi-disciplinary teams (MDTs) <i>Dr Ganesh Vigneswaran, Interventional Radiology Registrar, NIHR Clinical Lecturer, University of Southampton</i>
14:45	Roundtables with three rounds in World Café style. Themes will include: <ul style="list-style-type: none"> ▪ Responsible AI in Mental Health ▪ Re-imagining AI in social care ▪ Digital Twins and other application of AI in physical health
15:30	Roundtables feedback and discussion
15:40	Tea & Coffee Networking break
15:55	Launch of the NHS AI Champions initiative <ul style="list-style-type: none"> ▪ <i>Prof. Ian Abbs, Chief Executive, Guy's and St Thomas' NHS Foundation Trust</i> ▪ <i>Prof. Prokar Dasgupta OBE, Chair, Professor of Surgery, King's Health Partners</i>
16:20	Fireside chat with NHS AI Champions
16:50	Closing Remarks



Tweet Today:
@responsibleaiuk | #ResponsibleAI

Take our RAI Equality Diversity & Inclusion survey



ABOUT RAi UK

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RAi UK Team



Our team is made up of academics from different disciplines, with strong connections to policymakers and industry



Muffy Calder



Tom Rodden



Gopal
Ramchurn



Wendy Hall



Kate Devlin



Gina Neff



Jack Stilgoe



Maire Oneill



Derek
Mcauley



Matt Jones



Joel Fischer



Elvira Perez Vallejos



Caitlin
Bentley



Prokar Dasgupta



Sana
Khareghani



Shoaib Ehsan

Cohering the Ecosystem... ...in a Fragmented Landscape





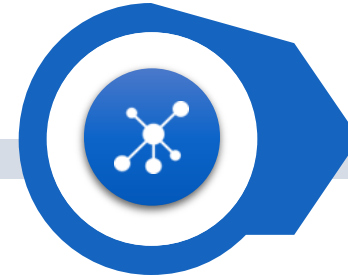
TRUSTED EXPERTISE:

RAi UK provides **research-driven expertise** on Responsible AI building on over 20 years of interdisciplinary research. Our 20-strong research team is ready to work with government and industry to deliver advice and undertake research on emerging challenges.



RESEARCH FUNDING:

RAi UK is deploying **more than £15m into research projects** to fill the gaps in the RAI research landscape and amplify the work of aligned programmes. Our research projects will involve over 300 researchers by end of 2024.



CONNECTOR & CONVENER:

RAi UK **convenes working groups, events, workshops**, and other activities to glue the AI Ecosystem in the UK and ensure the community is engaged internationally to construct a Responsible AI future.

Highlights in Year One



Community Building

4 Townhalls in
London, Glasgow,
Belfast, Cardiff]

AI Hubs Event

22 Roundtables to
influence research
priorities



AI Fringe

Organised events at
the AI Fringe in 2023,

Outcome: recently
published a white
paper.

AI Fringe 2024



Funding Research

7 Impact
Accelerator Projects

11 International
Partnerships

3 Keystone Projects

2 Satellite Projects



Contributions to Policy

AI Safety report

UN AI Advisory body
report consultation

Royal Society
Response to UN
report

Upcoming Events and Highlights



30 July 2024 RAI UK Webinar "In conversation with: RAI UK Leadership Team"
[Prof. Gina Neff, Prof. Sarvapali (Gopal) Ramchurn, Prof. Tom Rodden,
Prof. Dame Muffy Calder]

Coming Soon! [New Skills funding announcements](#)

Coming Soon! RAI UK Webinar "In conversation with: Keystone Projects"
[Prof. Marion Oswald, Dr. Simone Stumpf, Prof. Maria Liakata]

Find out more at rai.ac.uk

Impact Accelerator



Our impact accelerator projects will build on existing research to create new standards, tools, and support government policy.

Equality by Design , Deliberation and Oversight	Karen Yeung
Automated Empathy – Globalising International Standards (AEGIS)	Andrew McStay
RAISE – Responsible generative AI for SMEs in UK and Africa	Bernd Stahl
Amplify: Empowering Underserved Voices in Spoken Language Interaction	Simon Robinson
RAKE (Responsible Innovation Advantage in Knowledge Exchange)	Marina Jirotko
AIPAS: AI Accountability in Policing and Security	Babak Akhgar
SAGE-RAI: Smart Assessment and Guided Education with Responsible AI	John Domingue

(12-18 month projects)

International Partnerships

AI cannot be responsibly built, deployed and governed in silos. We have to work with the international community to deliver AI that benefits everyone.

Harnessing AI to enhance electoral oversight	Sam Power
The human role to guarantee an ethical AI for healthcare	Raquel Iniesta
Transparency Regulation Toolkits for Responsible Artificial Intelligence	John Downer
For the FATES of Africa: A co-developed pipeline for responsible AI in online learning	Nora McIntyre
TAS Hub and Good Systems Strategic Partnership	Helena Webb
Exploring Fairness and Bias of Multimodal NLP for Mental Health	Rafael Mestre
Disruption Mitigation for Responsible AI	Radu Calinescu
AI Regulation Assurance in Safety-Critical Systems	Jennifer Williams
Understanding Robot Autonomy in Public	Stuart Reeves
Responsible AI international community to reduce bias in AI music generation and analysis	Nick Bryan-Kinns
Responsible AI networks for industries and governments in developing countries	Nestor Castaneda

Satellite Projects

Our Satellite projects further cohere the ecosystem, working with Alan Turing Institute, the Ada Lovelace Institute, the Productivity Institute, and many others.

Public Voices in AI	Helen Kennedy
Responsible & Trustworthy AI: Economic Landscape Analysis	Diane Coyle

(12 month projects)

Our Keystone Projects



These 4-year projects will address fundamental challenges in Responsible AI, within a safety critical application (Law Enforcement), across sectors (AI Auditing), and at the technical level (Generative AI)



Prof. Marion Oswald Probable Futures (AI in Law Enforcement)

“The key problem is that AI tools take inputs from one part of the law enforcement system but their outputs have real-world, possibly life changing, effects in another part – a miscarriage of justice is only a matter of time. Our project works alongside law enforcement and partners to **develop a framework that understands the implications of uncertainty and builds confidence in future probabilistic AI**, with the interests of justice and responsibility at its heart.”



Dr. Simone Stumpf Participatory Harm Auditing Workbenches and Methodologies (AI Auditing)

“Our project will put auditing power back in the hands of people who best understand the potential impact in the four fields these AI systems are operating in. By the project’s conclusion, we will have developed a **fully featured workbench of tools to enable people without a background in artificial intelligence to participate in audits**, make informed decisions, and shape the next generation of AI.”



Professor Maria Liakata Addressing the limitations of large language models for medical and social computers (Gen AI)

“LLMs are being rapidly adopted without forethought for repercussion. For instance, UK judges are allowed to use LLMs to summarise court cases and, on the medical side, public medical question answering services are being rolled out.

Our vision **addresses the socio-technical limitations of LLMs that challenge their responsible and trustworthy use, particularly in medical and legal use cases.**”