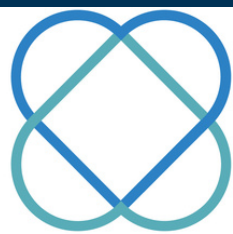




# HRfH Connect Event Programme

7th February 2025  
Google, London

Health  
Research  
from Home



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# WELCOME

## Introduction

Welcome to HRfH Connect! Health Research from Home (HRfH) is funded by the Medical Research Council to help the UK become a world-leader in health research using smartphones and wearables. Our first in person event is here to enable the cross-sector connections and knowledge sharing you need to create research that will transform peoples' lives.

## Our Mission

Health Research from Home's mission is to improve the lives of people living with long term health conditions.

In the future, data from smartphones and wearable devices could help answer many of the questions patients have. This data could be easily contributed by patients and the public.

Turning that data into world leading health research, and helping other researchers to do the same, will allow us to transform health outcomes for everyone. Health Research from Home is bringing the community together to share know-how, skills and experience to make this happen at scale.



# IMPORTANT INFORMATION

## Getting there

The venue is located at 6 Pancras Sq, London N1C 4AG. The closest rail stations are King's Cross, St Pancras and Euston.

## Registration & Security

Registration will take place on the ground floor from **9am - 9:45am**. Please arrive promptly as Google chaperones are required to escort all delegates from the registration area to the 6th floor venue. Chaperones will only be available within certain times and **late arrival may prevent entry to the venue**.

## Food & Drink

Breakfast, break-time refreshments and lunch will be provided. There will be vegetarian, vegan and gluten free options, however, **please be aware** the venue cannot cater to particular dietary requirements and allergies. Alcoholic and non-alcoholic drinks will be provided at the post event optional social.

## Accessibility

The building is wheelchair accessible. Hearing loops are provided within the venue. Live captions will be shown throughout the talks. If you require any further support please let us know at [hrfh@manchester.ac.uk](mailto:hrfh@manchester.ac.uk)

## Photography

There will be a photographer at the event and we will be posting pictures on [our LinkedIn](#). If you'd prefer not to have your photo taken please let one of the Host team know.

# AGENDA

09:00 - 09:45	Registration & Breakfast - please arrive promptly to guarantee entry
10:00 - 10:50	Introduction to Health Research from Home (HRfH) - Prof Will Dixon Living With a Long Term Condition - Max Carlish & Seb Tucknott A View from Government - Dr Mary De Silva <i>Chaired by Prof Will Dixon &amp; Dr Michele Orini</i>
10:50 - 11:40	Keynote Lecture I - Aiden Doherty, Professor of Biomedical Informatics at the University of Oxford <i>Chaired by Prof Will Dixon &amp; Dr Michele Orini</i>
11:40 - 11:55	Break
11:55 - 12:50	Technology Showcase: <ul style="list-style-type: none"><li>• Bruce Hellman - uMotif</li><li>• Dr Amos Folarin - RADAR-Base</li><li>• Prof Cathy Speed - Google/ Fitbit</li><li>• Dr Pauli Ohukainen - Oura</li></ul> <i>Chaired by Prof Richard Dobson &amp; Aashna Uppal</i>
12:50 - 13:30	Lunch with networking opportunities
13:30 - 13:40	News and announcements - Dr Sabine van der Veer & Dr Mariam Al-Attar
13:40 - 15:00	Co-design workshop - Deborah Szebeko & Lenny Naar from thinkpublic <i>Chaired by Sabine van der Veer &amp; Mariam Al-Attar</i> <i>Sponsored by Haleon</i>
15:00 - 15:15	Break
15:15 - 16:10	Research Showcase - 14 x 3min elevator pitches. Vote for your favourite! <i>Chaired by Dr Jackie MacArthur</i>
16:10 - 16:25	Break
16:25 - 17:10	Keynote Lecture II - Claire Steves, Professor of Ageing and Health at KCL <i>Chaired by Soren Brage</i>
17:10 - 17:30	Prizes for Research Showcase & Close
17:30	Drinks reception (optional) on the 11th floor roof terrace area

The logo for Haleon, featuring the word "HALEON" in a bold, sans-serif font. The letter "E" is stylized with a horizontal line through it, and the "O" has a small green square above it.



# INTRODUCTION TO HEALTH RESEARCH FROM HOME

**Will Dixon** is a Professor of Digital Epidemiology at the University of Manchester, an honorary consultant rheumatologist at Salford Royal Hospital, Northern Care Alliance NHS Foundation Trust and Health Research from Home Lead.

His research aims to address clinically important questions by analysing data from patient populations, with particular focus on digital health data.



## LIVING WITH A LONG-TERM CONDITION



**Seb Tucknott** has lived with ulcerative colitis since 2008, and is the founder and Head of IBDrelief, a for-purpose company empowering people living with inflammatory bowel disease. He is passionate about improving quality of life for patients living with long-term conditions through better education and improved support to self manage their condition.

As an NHS Clinical Entrepreneur, Seb works directly with patients, medical teams, researchers and industry, seeking solutions to some of the biggest challenges in inflammatory bowel disease today.

**Max Carlish** has lived with severe mental illnesses for many years. He is the lead for patient and public involvement on major NIHR research projects, as well as for the Midlands Mental Health Mission. A former NIHR Pre-doctoral Fellow, Max is also dedicated to using his lived experience to raise awareness of the fantastic contribution service users can make to research.



## A VIEW FROM GOVERNMENT



**Dr Mary De Silva** is Deputy Chief Scientific Adviser, Deputy Director for Health Protection Research, and Head of the Science and Engineering Profession in the Department of Health and Social Care. Prior to joining DHSC in Autumn 2021, Mary was Head of Population Health at the Wellcome Trust, and before that a Senior Lecturer at the London School of Hygiene and Tropical Medicine doing global health research, and where she is now an honorary Professor of the Practice.

# KEYNOTE SPEAKERS



## AIDEN DOHERTY

Aiden is Professor of Biomedical Informatics at the University of Oxford and a [Wellcome Trust](#) Senior Research Fellow.

He will be talking about how large-scale wearable resources are already transforming our understanding of health and why the UK is in a great position to further lead the world in this space.

Aiden's research group develops reproducible methods to analyse wearable sensor data in very large health studies to better understand the causes and consequences of disease.

In 2015, Aiden was one of only three EU Marie Curie Award winners, selected for his contributions to health sensor data analysis. He has also contributed to the creation of guidelines on the use of mobile devices in clinical trials, in collaboration with the FDA and supported Clinical Trials Transformation.

## CLAIRE STEVES

Claire is Professor of Ageing and Health and the Clinical Director of TwinsUK, King's College London.

She will discuss the value of smartphone-based studies for real time epidemiology, using the example of the ZOE Covid Symptoms Study.

Claire is an expert in this area, a Health Research from Home Co-Investigator and a key figure in helping the UK become a world-leader in health research using smartphones and wearables.

She leads a high profile Wellcome Trust Longitudinal Population Study grant to expand the ability to contribute to health sciences, by using data linkage with health, educational and environmental records, and social and environmental scientists.

In 2020 she brought her clinical experience to the design of the [ZOE](#) Covid study app which reached over 4 million people, and since then has led research on the impact of COVID-19 infection itself and the pandemic overall on lived experience of the participants.



# TECHNOLOGY SHOWCASE

The technology showcase will feature presentations from Oura, Google, Fitbit, uMotif and RADAR-Base. These technology powerhouses will show off emerging and existing technology that can support and power successful health research.

## BRUCE HELLMAN - UMOTIF

Bruce is Chief Patient Officer and Co-Founder at uMotif. Bruce co-founded uMotif in 2012, initially inspired to help patients with Parkinson's Disease track and better manage their condition. As Chief Patient Officer, he applies a patient-centric lens to guide the continued evolution of uMotif's modern eCOA/ePRO solution and enable unrivaled engagement.



## AMOS FOLARIN - RADAR-BASE

Amos is the Senior Software Development Group Leader at King's College London's NIHR Maudsley Biomedical Research Centre. His background is in bioinformatics and mobile health.

He is currently working on developing the [RADAR-base](#) data collection platform for remote monitoring using wearable devices, mobile phone sensors, and mobile apps. Other projects of interest include monitoring seasonal infectious diseases, deep-learning image analysis pipelines for high-content screening.



## CATHY SPEED - GOOGLE/FITBIT

Cathy is a Senior Clinical Specialist at Google Health, R&D. She is a clinical academic specialist with dual speciality accreditation (Rheumatology/Sport & Exercise Medicine). She has a distinguished background in applied physiology, wellness, and clinical medicine, especially musculoskeletal healthcare. Her work focuses on advancing healthcare through cutting-edge technologies and evidence-based practices.



## PAULI OHUKAINEN - OURA

Dr. Ohukainen is a Staff Research Scientist and Cardiometabolic Expert at Oura. He's responsible for clinical research projects and collaborations in the Heart Health space, and supports various teams across the company as a scientific advisor. Before joining Oura, Dr. Ohukainen worked as an academic researcher of cardiometabolic disease, first as a molecular biologist and then as a systems epidemiologist.





# CO-DESIGN WORKSHOP

Facilitated by thinkpublic and sponsored by Haleon. This workshop will explore the importance of co-design in research, product development and more widely in healthcare.

## thinkpublic

thinkpublic are a team of passionate service designers, strategists, user researchers, storytellers & social entrepreneurs. They use design & creativity to make a positive difference in the world.

<https://www.thinkpublic.com/>

### DEBORAH SZEBEKO

Deborah is the founding director of thinkpublic and an early pioneer in co-design, service design, and user engagement. She has led innovative projects across global healthcare, driving impactful solutions through creativity and collaboration.

Her experience includes designing and launching ventures for health tech, pharma, charities, and the public sector.



### LENNY NAAR

Lenny is a strategic design leader and has dedicated his career to using design to improve people's daily lives and transform systems and organisations. For the past decade, he has worked predominantly in healthcare both for the NHS in the UK as well as healthcare organisations in the US.

## HALEON

This workshop is brought to by HALEON.

HALEON are a world-leading consumer health company with a clear purpose to deliver better everyday health with humanity.

Our leading brands are built on science, innovation and human understanding and are trusted by millions of consumers globally. Haleon has a strong portfolio of brands and is well positioned to play a vital role for people all around the world, in a sector that is growing and more relevant than ever.

<https://www.haleon.com/>

# RESEARCH SHOWCASE

The Research Showcase will feature future leaders in our field. They will be presenting groundbreaking research of the future. These presentations will be judged by a panel of experts plus you, the audience, with prizes offered to the favourites.

- 1 **Lukas Hughes-Noehrer** from University of Manchester - **EMBRaCE (Enhanced Monitoring for Better Recovery and Cancer Experience)**
- 2 **Sian Bladon** from University of Manchester speaking on **Passive data for remote monitoring in psychosis and schizophrenia: a systematic review**
- 3 **Humphrey Curtis & Timothy Neate** from King's College London speaking on **Co-designed Wearable and Discreet Communication Technologies For People with Aphasia**
- 4 **Mariam Al-Attar** from University of Manchester speaking on **"How long will this steroid injection last for?" - An exploratory analysis of treatment response using daily symptom data collected via smartphone app**
- 5 **Olalekan Awoniran** from University of Bristol speaking on **Predicting Polycystic Ovary Syndrome from Core Body Temperature Measured in the Vagina**
- 6 **Samuel Warne** from University of St Andrews speaking on **The potential future use of Wearables and mHealth Technologies to support a socially prescribed community golf scheme**
- 7 **Charilaos Zisou** from University of Oxford speaking on **Are we creatures of habit? Reproducibility of accelerometer-derived physical activity and sleep in the UK Biobank**
- 8 **Sarah Koerner** from University of Bristol speaking on **Evaluating the Oura Ring for Fertility Tracking: A Comparison between a smart ring and a vaginal sensor**
- 9 **Kate Fifield** from King's College London speaking on **Assessing the feasibility and acceptability of smart EMA in measuring the everyday experiences of young adults with Tuberos Sclerosis Complex**
- 10 **Frances Conti-Ramsden** from King's College London speaking on **Pregnancy as a Window to Women's Heart Health: AI-Powered Digital Care for Life**
- 11 **Michele Orini** from King's College London speaking on **A multiplatform technology for holistic health monitoring: Investigation of recovery from long-covid**
- 12 **Sophie Eastwood** from University College London speaking on **Continuous glucose monitoring: using wearable technologies to elucidate mechanisms of disease and personalise healthcare**
- 13 **Carolyn Oetzmann** from King's College London speaking on **Subtyping Depression Using Wearable Data**
- 14 **Ayobami Olanrewaju** from University of Manchester speaking on **Measurement properties of physical activity devices in use in people with knee arthritis and total knee replacement: A systematic review**

# DELEGATE LIST

Get to know your fellow HRfH Connect delegates so you can use this event to the fullest, sharing know-how, skills and experience to catalyse and enable future research! (Not all delegates are included in this list)

## Lukas Hughes-Noehrer

- Co-lead Wearables Research Group. Manchester University NHS Foundation Trust and University of Manchester.
- Link to bio: <https://research.manchester.ac.uk/en/persons/lukas.noehrer>

## Wendy Hall

- Professor of Nutritional Sciences, King's College London
- Link to bio: <https://www.kcl.ac.uk/people/wendy-hall>

## Scott Small

- Senior Director, Novo Nordisk Transformational Prevention Unit (TPU). Novo Nordisk Research Centre, Oxford, UK
- Scott currently co-leads the Novo Nordisk TPU Product Innovation Lab, with a focus on creating science-based and scalable commercial solutions that prevent obesity and its consequences for people at greatest risk. Scott joined Novo Nordisk in 2023 following a 15-year career in orthopaedic research, including a focus on the use of wearables in clinical trials and observational cohorts. <https://www.linkedin.com/in/scottrsmall/>

## Jake Mallon

- Senior Product Manager AI/ML, GSK (GSK.ai)
- Product manager supporting a talented team of engineers developing ML-driven tools to advance precision medicine and drug development efforts at GSK. Particularly interested in the application of wearables in clinical studies. Background in mechanical engineering, medical device design and SaMD/AlaMD development.

## Lamiece Hassan

- Research Fellow, University of Manchester
- Experienced health researcher blending psychology, epidemiology and computer science to turn 'real world' data into usable insights about health. Currently exploring use of AI/ML methods and wearables data to improve physical health in people with mental illness.

## Tim Chico

- Director EPSRC/UKRI Digital Health Hub and Associate Director British Heart Foundation Data Science Centre. (Researcher and Clinician).
- Link to bio: <https://www.sheffield.ac.uk/smph/people/clinical-medicine/tim-chico>

## Matthew Pearce

- Data Scientist, MRC Epidemiology Unit, University of Cambridge
- Background in physical activity epidemiology. Currently working on novel approaches to harmonise activity metrics from any wearable in any population.

## Carolin Oetzmann

- Final year PhD Candidate at King's College London
- PhD candidate and digital health researcher developing innovative approaches to analyse wearable data and improve patient outcomes.

## Dimitris Evangelopoulos

- Research Fellow in Environmental Epidemiology and Biostatistics at Imperial College London
- HRfH Advisory & Organising Committee Member
- Dimitris' research interests include Epidemiology, Biostatistics, Measurement Error Theory, and Health Impact Assessment and focus on the health effects of air pollution, temperature and other environmental stressors and the impact of exposure measurement error in health effect estimation. He is an associate member of the Committee on the Medical Effects of Air Pollutants and has also acted as an external advisor for WHO.

## Maureen Chebet

- HDR UK PhD student- The University of Manchester
- Maureen is a health data scientist and PhD student with a passion for using data to solve real-world challenges. her experience spans data analysis, governance, automation, and project management, with a focus on health and scientific programming. She is particularly interested in leveraging data science and AI to create impactful solutions while ensuring robust data governance practices. She thrives on learning new skills, collaborating across disciplines, and driving innovation in health and beyond.

## Kate Fifield

- PhD Research Student, Department of Psychology, King's College London
- Link to bio: <https://www.kcl.ac.uk/people/kate-fifield>

## Sabine van der Veer

- Senior Lecturer, University of Manchester, Academic researcher
- HRfH Co-Investigator & HRfH Connect Master of Ceremony
- Link to bio: <https://research.manchester.ac.uk/en/persons/sabine.vanderveer>

## Michele Orini

- Senior Lecturer in Healthcare Engineering, King's College London
- HRfH Connect Chair and HRfH AOC Member
- Link to Bio: <https://www.kcl.ac.uk/people/michele-orini>

## Charlotte Sharp

- Honorary Senior Clinical Lecturer UoM & Consultant Rheumatologist, Manchester University NHS Foundation Trust
- HRfH PPIE Lead
- <https://research.manchester.ac.uk/en/persons/charlotte.sharp>

## Frances Conti-Ramsden

- Obstetrics and gynaecology registrar/ Medical Research Council (MRC) clinical research training fellow
- King's College London (University) & Guy's and St Thomas' NHS Foundation Trust (NHS)
- Combining her experience as an NHS clinician specializing in women's health with her current MRC-funded PhD fellowship, She is bridging the gaps between clinical medicine, data science, and digital health. In addition, she currently serves in advisory roles with femtech startups, helping develop AI-powered solutions for pregnancy care and personalized women's health

## Olalekan Monsir Awoniran

- Senior Research Associate. Integrative Cancer Epidemiology Unit, University of Bristol
- Olalekan's research covers developing methods for data analytics in healthcare and bioinformatics, mendelian randomization for causal inference, image processing and natural language processing. He currently works on time series analytics of basal body temperature for assistive conception, and the knock-on effect of reproductive health problems on various types of cancers. He is also involved in the software refactoring of the meta-analysis of DNA methylation.



## Zizheng Zhang

- PhD student in Healthcare AI at University of Oxford.
- HRfH Advisory & Organising Committee Member
- Zizheng is an aspiring researcher studying healthcare AI at University of Oxford. He has extensive experience in various types of healthcare data including wearables, clinical trials, electronic health records and large-scale biobank. His work focuses on how to use machine learning to improve the efficiency in healthcare and patient outcomes. He is looking to leverage his professional skills and passion in healthcare and tech. Connect via: <https://www.linkedin.com/in/zizheng-zhang>

## Sally Fenton

- Associate Professor in Lifestyle Behaviour Change, School of Sport, Exercise and Rehabilitation Sciences. University of Birmingham.
- Dr. Sally Fenton an Associate Professor in Lifestyle Behaviour Change. Her research is focused on the development, delivery and evaluation of theory-based interventions to promote physical activity, with a emphasis on clinical populations. Dr. Fenton also has expertise in the application of device-based assessments of physical activity and sedentary behaviour (e.g. accelerometers, commercial wearables) as an intervention tool, and to evaluate intervention efficacy.

## Matt Jones

- Professor of Neuroscience, University of Bristol
- Matt is a sleep neuroscientist currently using wearable recordings of brain activity to decode the interrelationships between sleep, brain development, cognition and mental health.

## Marina Riabiz

- Lecturer in Statistics, King's College London
- Link to bio: <https://www.kcl.ac.uk/people/marina-riabiz>

## Jonathan Oliveira

- BSc Psychology Student at the University of Liverpool
- Link to bio: <https://www.linkedin.com/in/jonathanoliveira13>

## Ali Connell

- Director of Digital Health, Our Future Health
- Link to bio: <https://www.linkedin.com/in/aliconnell/>

## Mary Mancini

- Public Contributor
- Mary is a mum of two, who lives in Exeter. She suffers from co-morbidities and is a carer for her neurodiverse son. In 2013 she decided to use her experience as a patient and carer to improve health and social care services by getting involved in research studies and in training for healthcare professionals. She is now a PPIE representative and co-applicant for several UK and European organisations (NIHR, the Wellcome Trust, CRUK, NHSE, McPin Foundation, to mention some) and contributes to projects in mental health, parenting of children with learning difficulties, data in research, methodology, trial improvement, AI, cancer and multiple long term conditions.

## Katie Baca-Motes

- CEO GSD Health Research
- Chair of the HRfH International Advisory Board
- Katie Baca-Motes is the CEO of GSD Health Research, leading efforts to advance women's health research through digital and real-world data approaches. Previously, she co-founded the Scripps Research Digital Trials Center, where she launched initiatives like DETECT, a COVID-19 research platform, and PowerMom, focused on maternal health and health equity. She also serves as Chair of the International Advisory Board for Health Research for the Future (HRFH) and as a Strategic Advisor for the Scripps Research Digital Trials Center. With expertise in digital health, decentralized trials, and patient engagement, Katie is dedicated to driving innovation and equity in health research. LinkedIn: <https://www.linkedin.com/in/katiebaca>

## Gareth Kitchen

- Clinical Academic. Senior Clinical Lecturer, University of Manchester. Honorary Consultant anaesthetist - Manchester University NHS Foundation Trust
- Gareth is an NIHR Senior Clinical Lecturer. He is Chief Investigator of the NIHR HTA funded trial, Protect airways. He is co-lead of the Manchester wearables lab, investigating various applications of wearable technology for patients. Other interests include, the effects of ICU and the peri-operative period on the circadian clock, and the effect of the circadian clock on outcome after pneumonia.

## Josh Behan-Devlin

- Research Associate, University of Manchester
- Josh is a qualitative researcher currently working as research associate in digital inclusion on the REMote MONitoring of Rheumatoid Arthritis (REMROA) trial at the University of Manchester. His work on this project involves examining barriers to uptake of the intervention and exploring how these may intersect with other health inequalities. He is also a registered social worker. LinkedIn: [www.linkedin.com/in/josh-behan-devlin](https://www.linkedin.com/in/josh-behan-devlin)

## Sarah Koerner

- PhD Candidate in Digital Health and Care, University of Bristol
- Sarah's research focuses on evaluating wearable devices, such as the Oura Ring, for tracking menstrual cycles and analysing body temperature patterns associated with reproductive disorders like PCOS.

## Charilaos (Harry) Zisou

- DPhil Student, University of Oxford
- Link to bio: <https://www.ndph.ox.ac.uk/team/charilaos-zisou>

## Mohammad Malekzadeh

- Senior Research Scientist & Tech Lead at Nokia Bell Labs
- Mohammad Malekzadeh leads the Device Intelligence team in the Pervasive Systems department at Nokia Bell Labs, Cambridge, UK. His team develops machine learning solutions for personal data, with a focus on multi-modality, data efficiency, individual privacy, and personalisation. He previously worked as a Research Associate at Imperial College London, focusing on Privacy-Preserving and Trustworthy Machine Learning. He earned his PhD in Computer Science at Queen Mary University of London while also working as a Research Assistant at Imperial College London. Mohammad's PhD research focused on developing machine learning algorithms for privacy-preserving personal data analytics, particularly for data captured by mobile and wearable devices. During his PhD, he also interned at Brave Software Research, where he explored privacy-preserving techniques to improve content personalisation in web browsers.

## Chris Tomlinson

- UK Health Data & AI Lead, LifeArc
- Chris is a clinician by background, specialising in Anaesthesia & Intensive Care, before transitioning to full-time research. His work leverages electronic health records, epidemiology and artificial intelligence at scale to advance our understanding of health and disease, and address the fundamental challenges of precision medicine. His research has been featured in top medical journals and informed both policy and clinical practice internationally. Most recently Chris has joined LifeArc, a translational research charity, as UK Health Data & AI Lead, to deliver patient benefit and address unmet needs.

## Alessandro Lussana

- Predoctoral Fellow, EMBL-EBI, University of Cambridge
- Alessandro is a Predoctoral Fellow at the European Bioinformatics Institute (EMBL-EBI). He develops computational methods to extract actionable insights from biological data, aimed at answering questions related to cell signalling, drug resistance, and population-scale public health. He is also passionate about promoting automation and reproducibility in data science, as key elements to deliver a positive impact to society through our work.

## John Powell

- Professor of Digital Health Care, University of Oxford
- Public health physician and digital health researcher. NIHR Senior Investigator. Previously Consultant Adviser at NICE. Interests include evaluations of digital health tools using a range of methods including trials; social science studies to understand how and why people use digital tools; regulatory and ethical issues especially in relation to AI.

## Siân Bladon

- Post-doctoral research associate at the University of Manchester
- Sian is a PDRA in medical statistics with an interest in clinical prediction modelling and digital health. She currently works on the CONNECT project where they are developing a model to predict the risk of relapse in psychosis, using data from smartphones and wearable devices.  
<https://research.manchester.ac.uk/en/persons/sian.bladon>

## Laura Goea

- Translational Sciences, Bayer AG, Pharmaceuticals
- Biomarker project lead with a strong interest in precision medicine: disease understanding, target identification and validation, and biomarker analysis in cardiovascular and renal indications.

## Abbas Khan

- PhD Researcher at Digital Environment Research Institute, Queen Mary University of London
- Looking for research opportunities
- Abbas is a third-year PhD student at Queen Mary University of London, working on Cardiac Image Segmentation using deep learning. He is also a Research Intern at KeenAI. His work focuses on developing AI-based approaches to segment steelwork and rust accurately in transmission tower images. The work aims to predict steelwork and estimate rust proportions across various backgrounds. He has over six years of hands-on experience in Artificial Intelligence with different research themes.

## Alan Metcalfe

- Research Associate in Clinical Exercise Physiology in Research Project Development at King's College London
- Alan's research primarily focuses on applied human physiology, particularly in response to endurance exercise, fatigue, and the use of wearable technology. At King's College, he is responsible for conducting a range of physiological assessments aimed at understanding fatigue, breathlessness, and physical activity in individuals with Long COVID symptoms, as part of the Balance-ACT clinical trial. Additionally, he is involved in developing projects related to pulmonary rehabilitation and is keen on leveraging wearable technology to monitor exercise.

## Michelo Banda

- Postgraduate Research Student in Epidemiology
- Michelo is a pharmacist with a Master's degree in Pharmacoepidemiology, passionate about leveraging data-driven approaches to improve healthcare outcomes. Her primary interest lies in utilizing high-frequency data collected through smart devices to enhance our understanding of treatment response. By integrating real-time data with pharmacoepidemiologic methods, she aims to contribute to more personalized and effective therapeutic interventions.

## Shuai Shao

- Postdoctoral Researcher, University of Manchester
- HRfH Research Associate
- Shuai Shao is a Postdoctoral Researcher at The University of Manchester, where he works on the Health Research From Home project. His research focuses on using time-series data from smartphones and wearable devices to better understand and improve health outcomes. Shuai earned his PhD from the University of Warwick, specializing in human activity recognition with wearable sensors. His interests include machine learning, big data analytics, and the development of new digital health technologies that promote patient engagement and personalized healthcare.

## Shaoxiong Sun

- Lecturer, The University of Sheffield, researcher/academic
- Dr. Shaoxiong Sun is a Lecturer in Pervasive Data Science at the Department of Computer Science, University of Sheffield. Previously, he was a Senior Research Associate in Data Science in Mobile Health at King's College London. Dr. Sun's research interests primarily revolve around physiological and behavioural monitoring, leveraging advanced signal processing and machine learning methodologies. In the realm of physiological monitoring, he focuses on estimating vital parameters such as blood pressure, heart rate, and respiration rate through the analysis of biomedical signals, such as photoplethysmography (PPG). In behavioural monitoring, his work centres on assessing mobility and social interaction patterns using wearable devices and smartphones. Dr. Sun has developed innovative technologies aimed at assisting individuals with a range of medical conditions, including depression, multiple sclerosis, epilepsy, ADHD, and COVID-19.

## Jackie MacArthur

- Senior Scientific Programme Manager, BHF Data Science Centre, HDR UK
- Chair of the HRfH Advisory and Organising Committee
- Within HDR UK Jackie focuses on delivering the BHF Data Science Centre's objectives; to improve the public's cardiovascular health through the power of large-scale data and advanced analytics across the UK. Before joining HDR UK, Jackie led the GWAS Catalog at EMBL-EBI and is passionate about improving reporting and sharing in research. Jackie has a background in human genetics, with a PhD and research career studying human genetic variation and its contribution to disease, including postdocs at the Sanger Institute and University of California San Francisco.



# WITH THANKS TO

We'd like to thank all Speakers and Contributors, the Health Research from Home team and all other crew members, Google and its staff, all the Health Research from Home Partners and Sponsors.

