

Summer School

1-4 September 2020



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1 Introduction – About the Summer School

Health Data Research UK (HDR UK) – the national institute for health data science – is delighted to host this virtual Summer School.

The second annual Summer School is intended for PhD students, early-mid career researchers, and technology specialists working in all areas of health data science.

Participants will have the opportunity to present their work, meet with peers, learn how to effectively communicate with non-expert and expert audiences through interactive sessions, and take part in a structured collaboration and innovation workshop to develop new interdisciplinary ideas and receive feedback from experienced researchers and directors across HDR UK.



2 Objectives

The objectives are five-fold:

- i) Share and discuss your work with your peers
- ii) Learn about the latest scientific developments across HDR UK through guest keynote speakers
- iii) Develop and apply newly acquired skills to communicate with a range of audiences
- iv) Learn how to develop new ideas using a design thinking approach
- v) Join your peers and other HDR UK researchers in order to think innovatively, develop your research ideas, and learn about how they are judged at funding panels



3 Outline of days

The first day will focus on sharing your work and your experiences through a series of rapid fire oral presentations.

On the second day, led by an experienced communication and media team who have worked with the BBC and other media outlets, you will be equipped with skills to be confident in communication with at least two different audiences. In three parallel sessions you will be able to explore three communication styles: getting your point across on social media, public engagement and media interviews.

On days three and four you will work in small groups to develop some initial health data science research ideas explored in days one and two in more detail and formulate a more detailed plan that will be presented to a panel of experienced researchers and funders, with the potential opportunity that one can be taken forward for further exploration and development.

The aims of each day are covered in more detail on the following pages:

DAY 1 Sharing your work

The aim of day 1 is for all participants to share, with the community, an outline and insights into their work. It also gives people an opportunity and to seed areas for potential collaboration in the final remaining days of the summer school. You will be joined by experienced researcher leaders who will ask you questions and we will be able to explore your work together.

DAY 2 Effective Communication

The aim of day 2 is to provide participants with effective communication skills to engage with expert and non-expert audiences with authority. The day will start with a short introduction on how to communicate and will focus on the how-tos of science communication. But equally important are the how-not-tos – avoiding miscommunication, hype and misunderstanding. Science journalist, Dr Claire Ainsworth will talk you through some case studies and top tips.

Communication skills will then be delivered in three themed sessions each focussing on a different communication medium: (1) getting your message across on social media; (2) Communicate your research to ‘Joe Public’ (impactful communication to non-experts); and (3) Media interviews: being the expert, which focusses on getting your story across in a concise manner.

Each theme is described here:

Theme A: Social media: how to make and share a YouTube video about your research

Trainer: Greg Foot

Making videos about our research might sound daunting, but today’s technology makes creating and sharing them surprisingly easy. YouTube science star, broadcaster and presenter Greg Foot will take you through the basic steps of how to plan, shoot and share your video.

Theme B: Public engagement: how to deliver a compelling public talk

Trainer: Dr Jon Copley

How can you grab the attention of an audience at a public talk such as a science festival? More to the point, how can you keep it? Dr Jon Copley, Associate Professor of Ocean Exploration and Public Engagement will show you how to use storytelling and participation to hook and engage audiences, and how to plan an effective talk.

Theme C: Science in the media: how to plan an effective media interview

Trainer: Geoff Marsh

What do journalists want from scientists when they interview them? How can you explain your work in a short, but accurate and engaging way? Award-winning radio journalist and podcast producer Geoff Marsh will show you how science hits the headlines and to prepare effectively for media interviews.

You will have been pre-allocated groups for day 2 (see back of the booklet) and will remain in these groups throughout the whole day. Each group will have an opportunity to do all three communication skills through a short introductory talk and discussion, followed by an interactive workshop.

Day 3 –Developing your research ideas into a proposal (a “Collaborathon”)

The aim of day 3 is to develop a proposal in small groups around ideas generated from delegates input on day 1. The ‘collaborathon’ will generate new ideas building from the lightning talks and provide structured sessions where groups of people can generate and discuss research ideas/proposals in small groups covering the main areas expected from a small grant proposal. We will give an overview of main area key topics for consideration, particularly those that are often overlooked, but are crucial to the success of a proposal (i.e., public and patient involvement and engagement, programme management: governance and finances; and information governance and data access). Experts in these three areas will give you hints and tips on what to consider and will be able to support you throughout the two days at dedicated times with these three areas.

Day 4 –Communicating you research idea

Day 4 presents the opportunity to present your idea to experienced researchers, public representatives and funders and receive feedback on your proposal.

4 Full agenda & links to join session

Day 1: 1 September 2020: Sharing Knowledge & Work

Please note: when you are presenting please could you arrive for the beginning of the session that you are speaking and stay throughout that session. When not presenting we would like you to attend any sessions that interest you, but please do stay for the full session so we are able to ask questions.

Software to be used on day 1: Well-Sorted (see details in section 6); Slack

TIME	PLENARY SESSION		
	Click here to join the plenary welcome session 11:00-11:30		
11.00-11.30	Welcome and introduction Rhos Walker, Chief Science Strategy Officer, Health Data Research UK Georgina Moulton, Director of Learning and Development, HDR UK		
11.30-11.45	BREAK Start submitting ideas/skills to Well-Sorted: https://www.well-sorted.org/study/submitItems.php?id=HDRUKcollaborathon		
	BREAKOUT SESSIONS: SHARING YOUR WORK		
	TRACK 1	TRACK 2	TRACK 3
	Click here to join Track 1 11:45 – 15:30	Click here to join Track 2 11:45 – 15:30	Click here to join Track 3 11:45 – 15:30
11.45-12.30	Chair: Paul Taylor, Professor of Health Informatics, UCL Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Chair: Phil Quinlan, Head of Digital Research Service, University of Nottingham Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Chair: Tjeerd/ Van Staa, Professor of Health eResearch, University of Manchester Georgina Moulton, Director of Learning & Development, Health Data Research UK Short talks (3 minutes, 2 slides) Presenters Panel Q&A
12.30-13.30	LUNCH		
13.30-14.15	Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Short talks (3 minutes, 2 slides) Presenters Panel Q&A
14.15-14.30	BREAK		
14.30-15.15	Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Short talks (3 minutes, 2 slides) Presenters Panel Q&A	Short talks (3 minutes, 2 slides) Presenters Panel Q&A
15.15-15.30	BREAK		
	PLENARY SESSION		
	Click here to join closing plenary session 15:30 – 16:15		
15.30-16.15	Track chair reflections and next steps Georgina Moulton, Director of Learning & Development, Health Data Research UK Paul Taylor, Professor of Health Informatics, UCL Phil Quinlan, Head of Digital Research Service, University of Nottingham		
16.15	Close (Submit ideas/skills to Well-Sorted)		

Day 2: 2 September 2020: Effective Communication

Please see section 10 for group allocation. Each group stays with the *same* track throughout the day. In other words, track 1 is for group 1, track 2 for group 2 and so on. Throughout the day you will be given experience of the three communication styles (Themes A, B and C). **Software: Well-sorted** (see details in section 6); Slack

TIME	PLENARY SESSION		
	Click here to join morning plenary 8:30-9:45		
9:00 – 9:30	Chair's welcome Phil Quinlan, Head of Digital Research Service, University of Nottingham Keynote lecture: Why we need reproducible analytics to support trustworthy clinical insights Aiden Doherty, Associate Professor, University of Oxford		
9.30–10.00	Keynote lecture: CVD-COVID-UK: using UK population-wide data to address the impact of COVID-19 on cardiovascular diseases and of cardiovascular diseases on COVID-19 Cathie Sudlow, Director, BHF Data Science Centre		
10:00 –10.15	BREAK		
10:15 –10.30	Short talk: Communicating across a national institute –a strategy for building reputation and trust Amanda White, Executive Director of Communications and Engagement, HDRUK		
10:30 –10.45	Introduction to Communications Workshop – How not to Communicate Claire Ainsworth, Managing Director, SciConnect		
	ROTATING PARALLEL SESSIONS		
	TRACK 1 Click here to join Group 1 11:00-17:45	TRACK 2 Click here to join Group 2 11:00-17:45	TRACK 3 Click here to join Group 3 11:00-17:45
11:00-11.45	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni	Theme A: Social Media Trainer: Greg Foot, SciConnect	Theme C: Science in the Media Trainer: Geoff Marsh, SciConnect
11:45-12:00	BREAK		
12:00-12.45	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni	Theme A: Social Media Trainer: Greg Foot, SciConnect	Theme C: Science in the Media Trainer: Geoff Marsh, SciConnect
12:45-14:00	LUNCH		
14:00-14.45	Theme C: Science in the Media Trainer: Geoff Marsh, SciConnect	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni	Theme A: Social Media Trainer: Greg Foot, SciConnect
14:45-15:00	BREAK		
15:00-15.45	Theme C: Science in the Media Trainer: Geoff Marsh, SciConnect	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni	Theme A: Social Media Trainer: Greg Foot, SciConnect
15:45-16:00	BREAK		
16:00-16.45	Theme A: Social Media Trainer: Greg Foot, SciConnect	Theme C: Science in the Media Trainer: Greg Foot, SciConnect	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni
16:45-17:00	BREAK		
17:00-17.45	Theme A: Social Media Trainer: Greg Foot, SciConnect	Theme C: Science in the Media Trainer: Greg Foot, SciConnect	Theme B: Public Engagement Trainer: Jon Copley, Southampton Uni
	PLENARY SESSION		
	Click here to join closing plenary session 17.45- 18.00		
17:45-18:00	Round-up and next steps for days 3 & 4 Phil Quinlan, Head of Digital Research Service, University of Nottingham		
18.00	Close		

Day 3: 3 September 2020: Collaboration

Software to be used on day 3: Padlet (see details in section 6); Slack

TIME	PLENARY SESSION
	Click here to join the morning plenary 9:00-9:45
09.00-09.30	Chair's welcome Colin McCowan, Professor, Health Data Science, University of St Andrews Keynote lecture: An Introduction to the Health Data Research Innovation Gateway Gerry Reilly, Chief Technology Officer, Health Data Research UK
09.30-09.45	Collaboration workshop: How to think innovatively using design thinking Georgina Moulton, Director of Training & Development, Health Data Research UK
09.45-10.00	BREAK
	Click here to join future sessions 10.00-16.45
10.00-10.45	Key considerations when developing your ideas Chair: Georgina Moulton, Director of Learning & Development, Health Data Research UK Speakers: Programme management, governance and finances – Lucy McCloughan, Health Data Programme Manager, University of Edinburgh and HDR UK Scotland Public Engagement and Involvement – Sinduja Manohar, Public and Patient Involvement and Engagement Officer, Health Data Research UK Information governance and access – Alex Bailey, Programme Manager, Medical Research Council
10.45-11.00	BREAK
11.00-12.00	Session 1: Collaboration workshop Chair: Colin McCowan, Professor, Health Data Science, University of St Andrews Participants to be divided into max 10 groups of up to 6 people
12.00-13.00	LUNCH
13.00-13.30	Session 2: Sharing initial ideas and thoughts (Groups will be come together: share and discuss initial ideas) Facilitators: Phil Quinlan, Head of Digital Research Services, University of Nottingham Colin McCowan, Professor, Health Data Science, University of St Andrews
13.30-13.45	BREAK
13.45-15.15	Session 3: Building on your idea with more detail Chair: Phil Quinlan, University of Nottingham Facilitators: Phil Quinlan, Head of Digital Research Services, University of Nottingham Colin McCowan, Professor, Health Data Science, University of St Andrews
15.15-15.30	BREAK
15.30-16.30	Session 4: Bringing it all together as research proposal Chair: Phil Quinlan, Head of Digital Research Services, University of Nottingham Facilitators: Colin McCowan, Professor, Health Data Science, University of St Andrews Phil Quinlan, Head of Digital Research Services, University of Nottingham
16.30-16.45	Reflections and next steps Colin McCowan, Professor, Health Data Science, University of St Andrews
16.45	Close

Day 4: 4 September 2020: Pitching your ideas

Day 4 presents the opportunity to present your idea to experienced researchers and funders and receive feedback on your proposal. You will continue to work on your research proposal ideas. **Software to be used on day 4:** Padlet (see details in section 6); slack; Powerpoint

TIME	PLENARY SESSION	
	Click here to join the morning plenary 9:00-9:30	
09:00-09:30	Chair's welcome Georgina Moulton, Director, Training & Development, Health Data Research UK Keynote lecture: Generation Scotland – longitudinal health data science in action David Porteous, Professor of Medical Genetics, University of Edinburgh	
09:30-09:45	BREAK	
	Click here to join 09:45-12:00	
09:45-12:00	Session 5: Preparing for your pitch Chair: Georgina Moulton, Director, Training & Development, Health Data Research UK Facilitators: Phil Quinlan, Head of Digital Research Services, University of Nottingham Colin McCowan, Professor, Health Data Science, University of St Andrews Georgina Moulton, Director, Training & Development, Health Data Research UK	
12:00-13:00	LUNCH	
	Groups to submit presentations for afternoon session BREAKOUT GROUPS: PITCH YOUR IDEA All participants including speakers should attend the track that their group has been allocated to for all afternoon sessions.	
	Click here to join Track 1	Click here to join Track 2
13:00-13:45	Panellists: Phil Quinlan, Head of Digital Research Services, University of Nottingham Paul Taylor, Professor of Health Informatics, UCL Sinead Brophy, Professor of Public Health, Swansea University Georgina Moulton, Director, Learning & Development, HDR UK Groups 1 & 2 2 x 15 minute pitches – 7 minute pitch + 8 minute Q&A	Panellists: Colin McCowan, Professor of Health Data Science, University of St Andrews Caroline Cake, CEO, HDR UK Sam Roley, Programme Manager, Medical Research Council Sindujar Manohar, PPIE Officer, HDR UK Groups 3 & 4 2 x 15 minute pitches – 7 minute pitch + 8 minute Q&A
13:45-14:00	BREAK	
14:00-14:45	Groups 5 & 6 2 x 15 minute pitches – 7 minute pitch + 8 minute Q&A	Groups 7 & 8 2 x 15 minute pitches – 7 minute pitch + 8 minute Q&A
14:45-15:00	BREAK	
15:00-15:30	Group 9 1 x 15 minute pitch – 7 minute pitch + 8 minute Q&A	Group 10 1 x 15 minute pitch – 7 minute pitch + 8 minute Q&A
15:30 16:00	BREAK	
	Click here to join final session	
16:00-16:30	Plenary talk, feedback and prizes Chair: Andrew Morris, Director, Health Research UK	
16:30	Close	

5 Summer School biographies

HDR UK Summer School Committee

Sam Cox is a Senior Research Scientist at the University of Nottingham. He works within the Digital Research Service with a background in multidisciplinary research with large numerical computations. His role involves working with academics to make best use of High Performance Computing facilities available at the University and nationwide, by improving and extending existing code, and advising on best practice.

Fran Lord is the Digital Innovation Hub Engagement & Events Manager in the Communications & Engagement team at HDR UK. Fran has more than 10 years experience working in communications, research, marketing, events and policy. She has worked across a range of sectors including life sciences, government affairs and the legal industry.

Georgina Moulton is a Professor of BioHealth Informatics and Education at The University of Manchester and is Director of Learning and Development at HDR UK. She is also the Capacity Building Lead for the Manchester Biomedical Research Centre and leads the NIHR Data Science Incubator. She originally trained as a biochemist and then subsequently in bioinformatics where her research focussed on developing evolutionary models. She has over 15 years experience designing and delivering innovative, inter-disciplinary educational frameworks, approaches and programmes at local, regional, national and international levels that focus on professionalization and capacity building in health informatics/data science. @GeneralGeorge

Colin McCowan was appointed as Professor in Health Data Science from January 2019 at the University of St Andrews and is an Honorary Professor within the Institute of Health & Wellbeing at the University of Glasgow. He has research interests in the use of existing routine data within epidemiological studies and in the support of clinical trials and other research methods. His work spans a number of clinical conditions including cancer, healthcare acquired infections, cardiovascular disease, multimorbidity and care of the elderly. He is an Associate Director & lead for training within HDR UK Scotland and has published widely in the epidemiological and data science literature.

Joram Posma is a HDR UK Rutherford Fellow at Imperial College London, where he is also a Lecturer in Cancer Informatics. His research focuses on the development of integrated multivariate statistical and bioinformatics methods for omics data, applied to study cardiometabolic disease, cancer and their interface with nutrition.

Phil Quinlan is the Head of Digital Research Service at the University of Nottingham and is the Director of the UKCRC Tissue Directory and Coordination Centre. He is also the National Node Director for BBMRI.uk. He runs a technical team based in Nottingham that oversee the development of the UKCRC Tissue Directory and API work, which enables biobanks to submit data to our Directory with ease. Phil's role is complex and he focusses on understanding the various needs, concerns and opportunities around to deliver the project's vision. He is one of the main champions in HDR UK's work to raise the visibility of career pathways for digital research technologists.

Rona Strawbridge is an HDR UK Rutherford Fellow at The University of Glasgow. After several years investigating the genetics of cardiovascular and metabolic diseases, Rona has more recently begun to explore the genetics of psychiatric disorders. Ultimately her ambition is to use genetics to understand why individuals with severe mental illness have an excess risk of cardio-metabolic diseases.

Rhos Walker is the Chief Science Strategy Officer at HDR UK. Rhos joined HDR UK in June 2018 from the Medical Research Council (MRC) where she was Head of Informatics Research and shaped the MRC's data science strategy. Before this Rhos held two roles within the MRC with responsibility for cancer research as well as skills and training. Prior to the MRC, Rhos's first role outside of academic research was a research funding and policy development role within a cancer research charity.

Communications

Dr Claire Ainsworth is a freelance science journalist who writes for publications including New Scientist, Nature, Science and The Observer. Prior to going freelance, she was Senior Reporter, News and Features at Nature, and before that, a news reporter and features editor at New Scientist magazine. She has also regularly appeared as a science news commentator on The Science Hour on the BBC World Service. She has a doctorate in developmental biology and has won awards for her science journalism including an Association of British Science Writers Award. She has been training scientists in science communication in the UK, EU and further afield since 2000.

Dr Jon Copley is Associate Professor of Ocean Exploration & Public Engagement at the University of Southampton and a former reporter and news editor of New Scientist magazine. In his training, he draws on 20 years of experience of being a research-active scientist who communicates his work to the public and policymakers both directly and via the media. He is a regular contributor to BBC Radio 4 and World Service science radio programmes and has extensive experience of broadcast news interviews about his own research. He is a scientific advisor and onscreen contributor to TV documentaries including BBC Blue Planet II, and the author of popular science book Ask an Ocean Explorer (2019). He has won science communication awards including the Royal Society of Biology Science Communication Award for Established Researchers, and his teaching excellence has been recognised by the University of Southampton Vice-Chancellor’s Award for Postgraduate Training.

Geoff Marsh is a freelance science film and radio producer, who regularly produces programmes for BBC Radio 4’s Inside Science and World Service’s Science In Action series. He produces and presents podcasts for New Scientist, The Guardian, and Nature, and creates online documentary films for clients including The Natural History Museum, Nature, the BBC, and the Wellcome Trust. Geoff has won awards including the AAAS Kavli Science Journalism Gold Medal (for Radio 4’s A Sense Of Time), and is an experienced science communication and media skills trainer. He has a degree in Zoology and a Masters in Science Media Production from Imperial College.

Greg Foot is a science broadcaster on BBC radio and TV, YouTube, and podcasting. He is the producer and presenter of the Radio 4 series The Best Thing Since Sliced Bread? and a BBC World News TV series exploring the future of food. His TV credits also include being Blue Peter’s “science guy” and presenting science demonstrations on Channel 4’s Sunday Brunch. His YouTube videos have amassed more than 30 million views, and he was producer and presenter of BBC Earth’s science channel. Greg was a Wellcome Trust Public Engagement Fellow, and is an experienced trainer in public engagement skills for researchers. He has a degree in Natural Sciences from Cambridge and a Masters in Science Communication from Imperial College.

Plenary Speakers, Session Chairs and Panel Members

Alex Bailey is the Programme Manager at the Medical Research Council where he focuses on access to health data. He has worked across the health system including the South East Scotland Research Ethics Service.

Sinead Brophy is a Professor of Public Health in at Swansea University and is an HDR UK Training Lead. She is also Deputy Director of the National Center for Population Health and Well-being in Wales. She leads on a broad portfolio of projects including the HAPPEN primary school network (all Wales primary school network; Born in Wales, a birth cohort study linked to routine data;) rural health, maternal health and international comparisons including diabetes outcomes in four EU countries.

Caroline Cake is Chief Executive Officer of HDR UK. Since joining in 2018, she has overseen the development of the Health Data Research Hubs, the Alliance, the Innovation Gateway and the Better Care Programme. She has more than 20 years experience in commercial organisations including being a director advising health organisations, universities and central government departments. She is a Chartered Engineer and holds an MBA from Harvard University and a MEng from the University of Cambridge.

Aiden Doherty is a Senior Research Fellow at the University of Oxford. His research interest is in the development of computational methods to extract meaningful health information from complex and noisy sensor data in very large health studies.

Sinduja Manohar is a Public Engagement and Involvement Officer at HDR UK. Following her training to become a Biomedical Scientist and move to Public Health, Sinduja's previous roles have been in the charity sector working on community based peer support and growing patient involvement at the British Heart Foundation. During her time there she led involvement activities to support strategy development, research, grant funding, policy, creation of resources and fundraising. She also played a key role in building their patient involvement network and provided training and support to staff to run their own involvement activities.

Lucy McCloughan is the manager of HDR UK Scotland having previously managed Farr Scotland from 2017. From 2012 she was eHealth Research Manager at the University of Edinburgh Medical School overseeing a programme of RCTs and qualitative studies investigating telemetric supported self monitoring of long term health conditions as well as a programme investigating ePrescribing systems in English hospitals. Prior to that she managed the Scottish Mental Health Research Network from 2007-2009 and the Scottish Primary Care Research Network from 2002-2007. Before moving into research management, she was on the “coal face” as a researcher working with people with visual disabilities, working both at the Oxford Eye Hospital and Heriot- Watt University.

Andrew Morris is a Professor of Medicine is the Director of Health Data Research UK. He is seconded from his position and is Vice Principal of Data Science at the University of Edinburgh, having taken up the position in August 2014. Prior to this, Andrew was Dean of Medicine at the University of Dundee. Andrew was Chief Scientist at the Scottish Government Health Directorate (2012-2017) and has served and chaired numerous national and international grant committees and Governmental bodies. His research interests span informatics and chronic diseases with a total of 330 original papers.

David Porteous is a Professor of Human Molecular Genetics and Medicine at the University of Edinburgh. He has published over 400 research papers and the focus of his work is the application of knowledge emerging from the Human Genome Project to the identification of risk factors, disease processes and new treatments for common disorders. He works in the field of population health genetics, and conceived and initiated Generation Scotland (www.generationScotland.org), a major collaborative initiative between the Scottish Medical Schools and the NHS in Scotland.

Sam Rowley is a Programme Manager in Methodology and Clinical Research at the Medical Research Council. He has a background in pharmacology and after studying at Bristol University and Uppsala University he joined the MRC as a research programmes manager and informatics research co-ordinator.

Gerry Reilly is the Chief Technology Officer at HDR UK. He graduated from Queen Mary College in Physics and Electronics and then has had a number of technical and business development roles in the technology sector, including IBM, where he was Vice President for Event Services in the IBM Cloud and Watson Group. He has worked closely with academia during this time. He is a fellow of the British Computer Society and a Chartered Engineer and Chartered IT Professional.

Cathie Sudlow is a Professor of Neurology and Clinical Epidemiology at the University of Edinburgh and is the Research Director for the British Heart Foundation UK Centre for Cardiovascular Health Data Science. From 2011-2019 she was the Chief Scientist of UK Biobank, a major international research resource with data and samples of unparalleled breadth and depth from half a million UK adults.

Paul Taylor is a Professor of Health Informatics at UCL, and is an HDR UK Training Lead. He has a background in Artificial Intelligence and Medical Physics. His research interests have focused on the use of computer systems in clinical decisions, particularly in image interpretation, including mammography and chest radiography. He is currently leading a major collaborative project to create a resource of routinely collected ophthalmic data, including imaging, to answer a range of questions relating to the progression of disease and effectiveness of treatment for common retinal conditions. He is the author of *From Patient Data to Medical Knowledge*, a textbook for health informatics.

Tjeerd Van Staa is a Professor Clinical Epidemiology at The University of Manchester. He is a clinician by training and has been a practicing physician, worked in the pharmaceutical industry and was the Director of Research at Clinical Practice Research Datalink (CPRD). He has published over 170 peer reviewed articles in the fields of pragmatic trials, pharmacoepidemiology, pharmacovigilance.

Amanda White is the Executive Director of Communications and Engagement at HDR UK. She has a background in health communications and joined HDR UK from UCL Partners, where she established the communications function. She has a broad portfolio of work including launching the NHS Innovation Accelerator, which supports the uptake of innovative solutions across health and social care, and led communications and engagement activity for the reconfiguration of specialist cancer and cardiac services in north central and east London.

6 Software requirements

Zoom will be used to host the summer school, but we will be also using three main pieces of software across the summer school that serve different functions: (1) Slack for communication; (2) Well-sorted to post and sort new ideas; and (3) Padlet for group work. You will each be invited to join via the email address you supplied (please check your junk folders as sometimes they will be found there).

Slack – Communicating across the Summer School.

Slack will be used as the main method of communication across the summer school.

The workspace that you will have been invited to is HDR UK Summer School. There are a number of channels that you will be able to see – each for a different purpose.

Channel name	Description
summer-school-2020	This channel is for all and will be the main way that we will make announcements about the summer school for all days.
general	This is for general questions from summer school participants.
day1-sharingresearch	Any questions with regards to day 1 can be posted here from all participants.
day2-communications	This channel is primarily for day 2 for the communications workshop. Most communication for the workshop will be via zoom, but this channel is also available.
day3-4-developideas	Days 3 and 4 will allow questions to be asked via this channel to all tutors and other participants.
researchgroup	After we have worked out the research areas that interest people the most to form groups for days 3 and 4, you will be invited to join a specific channel only for your group. You will informed of the groups on day 2.

Well-Sorted – Organising into research groups for the days 3 and 4

We will use the online Well-Sorted platform for attendees to submit their ideas and then sort their ideas into thematically similar or complimentary groups. These groups will work together during days 3 and 4 of the Summer School when developing a new research proposal/idea. Each group will have up to 6 participants that will work together on generating a project proposal based on their research ideas.

Stage 1 (idea submission)

From **midday on Tuesday September 2nd (day 1)**, all attendees are asked to **submit 1-2 research ideas/skills** on the Well Sorted platform using this link:

<https://www.well-sorted.org/study/submitItems.php?id=HDRUKcollaborathon>

The webpage contains some examples to get you thinking about your research ideas/skills, e.g. a topic you'd like to work on with a group in days 3 and 4, or a skill/expertise you can contribute to a project. Listen to the projects that others are doing, or there may be something you have been wishing to develop separately – now is the chance to do it! Post them on the platform. This stage will remain **open until 9am on day 2** after which **no new items** can be submitted.

Stage 2 (sorting of ideas into groups)

From 9am on day 2 the sorting stage will open and you can access it via this link:

<https://www.well-sorted.org/study/sorting.php?id=HDRUKcollaboration>

You will see all items submitted by all participants and are asked to sort these into groups.

How you sort these is up to you and the other attendees, but you could sort items around a similar topic/theme together or bring together people with complimentary skills.

This stage will remain open until **2pm on day 2 (end of lunch break)**, after which Well-Sorted will combine all sorts and generate groups based on the general 'consensus' of which items were sorted together. During the last session of day 2 (17:45-18:00) the result of the sorting will be used to detail the group allocation.

Things to remember

- The submitted items have a limit of 50 characters for the title and 255 characters for the description.
- During the sorting stage you will primarily see the titles, the description of each becomes visible when you hover over an item with the mouse, so aim to make the title informative.

Padlet – Working together to develop research ideas

Padlet (padlet.com) is a collaboration board online tool that facilitates and helps groups work together effectively through brainstorming and structuring ideas, keeping on track of projects amongst many other things.

You will have **received an email separately** that will have added you as a user to this software tool and to the HDR UK space (www.hdr.uk.padlet.org), which is only viewable by the summer school participants. Please do take a look before Thursday September 3rd to familiarise yourself with the software.

Each group for days 3 and 4 will have access to their own Padlet page.

In the Padlet board you will see a design thinking template outlined in the areas that you will need to consider when putting together your research proposal. In your group you will be able to complete this either through adding text to these, or through adding documents containing further information about each area. In addition, an attached slide template for the presentation on day 4 is also available for you to use should you wish.

7 Participating in the Summer School and using Zoom

Joining the meeting

- To join a session please use the relevant link – you can find these in in Section 4: Full agenda.
- If you are using Zoom on your computer or laptop, you should not need to download Zoom or have a Zoom account to join. If you are joining via your smartphone you will need to download the Zoom app for iPhone or Android.

Asking a question

- During plenary sessions Zoom will be in webinar mode. Please use the Q&A function to ask a question.
- During breakout sessions Zoom will be in meeting mode and you will need to unmute yourself to ask a question.

Contact

- Please feel free to post on Twitter or LinkedIn about the course. You can tag @HDR_UK and/or use #HDRSummerSchool20.
- If you have queries about the Summer School you can email us on events@hdruk.ac.uk. If you have general queries relating to HDR UK please contact enquiries@hdruk.ac.uk.

Session recordings and slides

- Some plenary talks will be recorded and available after the course on the HDR UK website, but breakout and discussions will not be.



8 Inclusivity & conduct

- If there are other accessibility issues you would like to note please contact events@hduk.ac.uk and we will do best to accommodate these.
- We ask all participants to abide by our values of transparency, optimism, respect, courage and humility and to treat all speakers and participants with respect, courtesy, and professionalism. Unfortunately, we are unable to include live closed captioning during the live sessions during the course.



9 Groups for day 2

Throughout the summer school you will be working as part of groups, either to receive training or to develop your research proposals. In day 2 these will be pre-defined whereas on future days these will be determined by the research ideas put forward. In this section we outline the groups for day 2.

Group 1

Adeniyi	Fagbamigbe	Research Fellow, University of St Andrews
Albert	Navarro Gallinad	Early Stage Researcher with MSCA ITN, ADAPT Centre
Anna	Barnes	Assistant Professor, University College London
Chris	Clarkson	Bioinformatician, UCL
Ethna	McFerran	Post Doctoral Researcher - Cancer Health Economics, Queen's University Belfast
Fang	Chen	Clinical Research Fellow, University of Oxford
Grazziela	Figueredo	Digital Research Scientist, University of Nottingham
Ian	Henderson	Academic Clinical Fellow, University of Warwick/ NIHR
Joram	Posma	Lecturer in Cancer Informatics, Imperial College London
Kai	Jin	Epidemiologist, Data Scientist, University of Edinburgh
Kesson	Magid	Postdoctoral Research Assistant, Queen Mary University, London
Luke	Farrow	SCREDS Clinical Lecturer in Orthopaedics University of Aberdeen
Mome	Mukherjee	Senior Research Fellow, The University of Edinburgh
Moneeza	Siddiqui	Principal Investigator, University of Dundee
Palwasha	Khan	Clinical Associate Professor, LSHTM
Roberto	Santos	Digital Research Scientist, University of Nottingham
Rona	Strawbridge	Research Fellow, University of Glasgow
Sam	Cox	Digital Research Scientist, University of Nottingham
Tracey	Farragher	Lecturer in Healthcare Sciences, University of Manchester

Group 2

Alicja	Jasinska-Piadlo	PhD & Cardiology Registrar, Ulster University
Anna	Head	PhD Candidate, University of Liverpool
Bruce	Burnett	PhD Student, Swansea University
Eilidh	Cowan	PhD student, University of Edinburgh
Elpida	Vounzoulaki	PhD Student, University of Leicester
Enock	Havyarimana	Marie-Curie Early Stage Researcher/PhD, University of Glasgow
Fatima	Almaghrabi	Academic, University of Manchester
Harriet	larvin	PhD student, University of Leeds
Hayley	Smith	PhD Student, University of Leicester
James	Schmidt	PhD Researcher, University of Leicester
Kate	Edgar	Research assistant, LSHTM
Mei Sum	Chan	PhD student, University of Oxford
Oluwasegun	Ojo	Research Assistant; PhD Student, IMDEA NEtworks Institute, Madrid
Samantha	Ofili	PhD Student, University of Strathclyde
Solange	Gonzalez Chiappe	PhD Student, Saint Gallen Hospital
Vasilis	Nikolaou	PhD student, Surrey University
Wenyue	Zhu	PhD student, University of Liverpool
Yamina	Boukari	Student, University College London

Group 3

Adam	Taylor	Digital Research Scientist, University of Nottingham
Adem	Dawed	Principal Investigator, University of Dundee
Bahareh	Khosravi	Early Stage Researcher with MSCA ITN HELICAL 81354, Trinity College Dublin
Cat	Atkin	Academic Clinical Lecturer, University of Birmingham
Cheryl	Battersby	NIHR Clinician Scientist and Senior Lecturer, Imperial College
Christian	Torres	Senior Manager, NHS England
Haiyan	Wu	HDR UK London Officer, HDR UK London at UCL
Jagmohan	chauhan	Post Doctoral Researcher, University of Cambridge
Kathryn	Dalrymple	Post Doctoral Researcher, King's College London
Kendra	Wu	Postdoctoral Researcher, University of Oxford
Leo	Westbury	Research Fellow / Medical Statistician, University of Southampton
Mihael	Galinac	Research Assistant, TissueGnostics GmbH
Nazanin	Zounemat kermani	Research Associate, Imperial College London
Rachel	Mulholland	BREATHE Hub Data Analyst, University of Edinburgh
Sara	Khalid	Senior Research Associate, University of Oxford
Sarwar	Mozumder	NIHR Research Associate, University of Leicester
Sharon	Lin	Research Fellow, University of Southampton
Henry	Nanji	Digital Research Scientist, University of Nottingham
Veronica	DiStefano	University research, Venice University "CA FOSCARI"

10 About Health Data Research UK & further information

Health Data Research UK

Health Data Research UK is the national institute for health data science in England, Wales, Scotland and Northern Ireland. Its mission is to unite the UK's health data to enable discoveries that improve people's lives. It is a not-for-profit public benefit company funded by UK Research and Innovation, the Department of Health and Social Care in England and equivalents in Northern Ireland, Wales and Scotland, and leading medical research charities.

Visit www.hdruk.ac.uk for more information.

Health Data Research Innovation Gateway

The Health Data Research Innovation Gateway is a portal to find and request access to UK health datasets controlled by members of the UK Health Data Research Alliance. The first phase of the Gateway provides detailed descriptions (meta-data) of these datasets, which researchers can search, browse and request access to health data. It does not hold or store any patient or health data. It aims to increase transparency around accessible datasets and processes associated with their access. The Gateway is part of the UK-wide capability for the responsible use of health data for research and innovation, funded by the Industrial Strategy Challenge Fund (ISCF).

Visit www.healthdatagateway.org for more information and to test out the Gateway.

UK Health Data Research Alliance

The UK Health Data Research Alliance is an independent alliance of leading healthcare and research organisations united to establish best practice for the ethical use of UK health data for research at scale. Convened by Health Data Research UK, the Alliance develops and co-ordinates the adoption of tools, techniques, conventions, technologies, and designs that help researchers to answer some of the most difficult questions and address the most important health challenges faced in the UK. The Alliance is part of the UK-wide capability for the responsible use of health data for research and innovation, funded by the Industrial Strategy Challenge Fund (ISCF).

Visit www.ukhealthdata.org for more information.





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