MANCHESTER
DIGITAL EPIDEMIOLOGY
SCHOOL

A three day course that explores opportunities, challenges and methods for capturing and using a range of digital health data types to support high-quality population health research

12 - 14 October 2022, Manchester

For more information and to register, visit: www.tinyurl.com/ManDigEpi22

CENTRE FOR
EPIDEMIOLOGY
VERSUS
ARTHRITIS

Manchester Digital Epidemiology School 2022

The Centre for Epidemiology Versus Arthritis has previously run two highly successful face-to-face and one online Manchester Digital Epidemiology Schools.

In 2022 we are coming back in person with a three-day course will explore the opportunities, challenges, and methods for capturing and using a range of digital health data types to support high-quality population health research

Dates: 12-14 October 2022

Venue: Hyatt Regency Manchester, 55 Booth St West, Manchester M15 6PQ

Programme at glance

- Day 1: Electronic health records (EHRs) for health research
- Day 2: Smartphones for health research
- Day 3: Wearables for health research

Who is this course for?

Epidemiologists; Population health researchers; Health data scientists; Health informaticians; Clinicians with an interest in epidemiology and/or data science. Delegates from academic, industry and other backgrounds are welcome.

How much will it cost?

£150 per day (The price includes registration, lunch, and course materials)

Register **here**.

Deadline for booking (extended): 9 October 2022 (Limited spaces available for each day)

Testimonials from our previous courses

"A wealth of information into a new and exciting area of epidemiology"

"A well worthwhile event over 3 days"   "Interactive, practical and highly engaging"

"Excellent primer for those interested in understanding mobile health applications and their use for research - highly relevant during the COVID-19 pandemic!"

"An easy and efficient way to keep up to date with digital epidemiology"

"Nice forum to connect with researchers with similar interests - learning from others' experiences helps advance the field by not reinventing the wheel or ignored lessons learned from prior failures"

Hosted by: Prof Will Dixon, Dr Meghna Jani

Time	Topic
09:00 – 09:30	Registration and Refreshments
09:30 – 10:00	Welcome to Day 1 and Meet the Delegates
10:00 – 10:15	**Introduction to electronic health record (EHR) data in health research** Prof Tjeerd van Staa (The University of Manchester)
10:15 – 11:15	Workshop 1: **Preparing drug exposure data** Dr Meghna Jani, Prof Goran Nenadic, Dr Belay Yimer (The University of Manchester)
	Break
11:45 – 12:45	Workshop 2: **New concepts in prediction Modelling** Dr Jamie Sergeant, Dr Glen Martin (The University of Manchester)
	Lunch
14:00 – 15:00	Workshop 3: **Trial emulation** Dr Christopher Rentsch, Dr Kevin Wing (The London School of Hygiene & Tropical Medicine)
	Break
15:30 – 16:30	Workshop 4: **Group-based Trajectory Modelling** Dr Sam Norton & team (King's College London)
	Break
17:00-17:30	**Guest Keynote Talk**: **Transforming healthcare with artificial intelligence - lessons from ophthalmology** Dr Pearse Keane (UCL Institute of Ophthalmology)
17:30	**Networking opportunity for all delegates**

Hosted by: Prof Will Dixon, Dr Katie Druce

Time	Topic
09:00 – 09:30	Registration and Refreshments
09:30 – 10:00	Welcome to Day 2 and Meet the Delegates
10:00 – 10:15	Introduction to patient-generated health data using smartphones Prof Will Dixon (The University of Manchester)
10:15 – 11:15	Workshop 1: **Designing a mobile health study** Prof Will Dixon, Dr Katie Druce (The University of Manchester)
	Break
11:45 – 12:45	Workshop 2: **Co-designing a digital health solution** Dr Pauline Whelan, Matthew Machin, Simon Foster, Charlotte Stockton-Powdrell (Digital Health Software at The University of Manchester)
	Lunch
14:00 – 15:00	Workshop 3: **Setting the study up on a platform** Dr Amos Folarin (King's College London)
	Break
15:30 – 16:30	Workshop 4: **Analysing daily symptom data** Dr David Selby (DFKI - German Research Centre for Artificial Intelligence)
	Break
17:00-17:30	**Guest Keynote Talk: Using mobile app technology to assess population health** Dr Claire Steves (King's College London)
17:30	**Networking opportunity for all delegates**

DAY 3: WEARABLES FOR HEALTH RESEARCH

Hosted by: Prof John Mcbeth, Dr Alexander Oldroyd

Time	Topic
09:00 – 09:30	Registration and Refreshments
09:30 – 10:00	Welcome to Day 3 and Meet the Delegates
10:00 – 10:15	**Introduction to patient-generated sensor data** Prof John McBeth (The University of Manchester)
10:15 – 11:15	Workshop 1: **Micro-randomised trials using sensor data** Prof John McBeth, Ting-Chen (Chloe) Hsu (The University of Manchester)
	Break
11:45 – 12:45	Workshop 2: **Sensor-Based Remote Gait Analysis** Dr Alexander Oldroyd (The University of Manchester)
	Lunch
14:00 – 15:00	Workshop 3: **Application of wearable technology in digital healthcare** Dr Ríona McArdle, Dr Rana Rehman (Newcastle University)
	Break
15:30 – 16:30	Workshop 4: **Longitudinal studies of health in smart home environments** Dr Ryan McConville (University of Bristol)
	Break
17:00-17:30	**Guest Keynote Talk: Where next with wearables: Future directions in wearable devices, and lessons learned from analysing the 100,000 wearable accelerometer records from the UK Biobank** Dr Alex Casson (The University of Manchester)
17:30	**Networking opportunity for all delegates**