

USING MOBILES AND WEARABLES FOR PUBLIC HEALTH

Monday 27th March 2023, 14:00 - 17:00

Lecture Theatre 2, Department of Computer Science and Technology, West Cambridge

AGENDA

SESSION 1: INTRODUCTION TO MOBILES, WEARABLES AND PUBLIC HEALTH

Chair: Professor George Roussos

- 14:05 **Precision Health: More than just the tech!**
Professor Andrew Flewitt, Precision Health Initiative
- 14:15 **Opportunities and challenges of mobile and wearable health**
Professor Cecilia Mascolo, Department of Computer Science and Technology
- 14:25 **Digital detection of cognitive decline and the question of screening**
Dr Richard Milne, Kavli Centre for Ethics, Science, and the Public
- 14:45 **Coffee Break**

SESSION 2: FITNESS FOR HEALTH

Chair: Professor Andrew Flewitt

- 15:10 **Human-centric AI for health signals with applications in fitness and activity modeling**
*Dr Dimitris Spathis, Visitor at the Department of Computer Science and Technology
(Scientist at Nokia Bell Labs)*
- 15:25 **Handling missing data from wearable devices in clinical trials**
Dr Mia Tackney, MRC Biostatistics Unit
- 15:40 **Estimating step counts from smartphones and wearables in free-living individuals**
Dr Matthew Pearce, MRC Epidemiology Unit
- 15:55 **Comfort Break**

SESSION 3: HEALTH SCREENING AND INTERVENTION

Chair: Dr Sofia S. Villa, MRC Biostatistics Unit

- 16:15 **Designing randomised trials to optimise the notification policy of a behaviour change app**
Dr Lauren Bell, MRC Biostatistics Unit
- 16:30 **Early Diagnosis of Alzheimer's using outdoor mobility**
Dr Abhirup Ghosh, Department of Computer Science and Technology
- 16:45 **Your voice matters: what can sound tell about your health**
Dr Jing Han, Department of Computer Science and Technology

RECEPTION AND NETWORKING

- 17:00 *'The Street' outside Lecture Theatre 1*