



Smart Imaging for Development

Sandpit and Seed Funding Competition

Murray Edwards College

26 – 27 November 2019

Programme

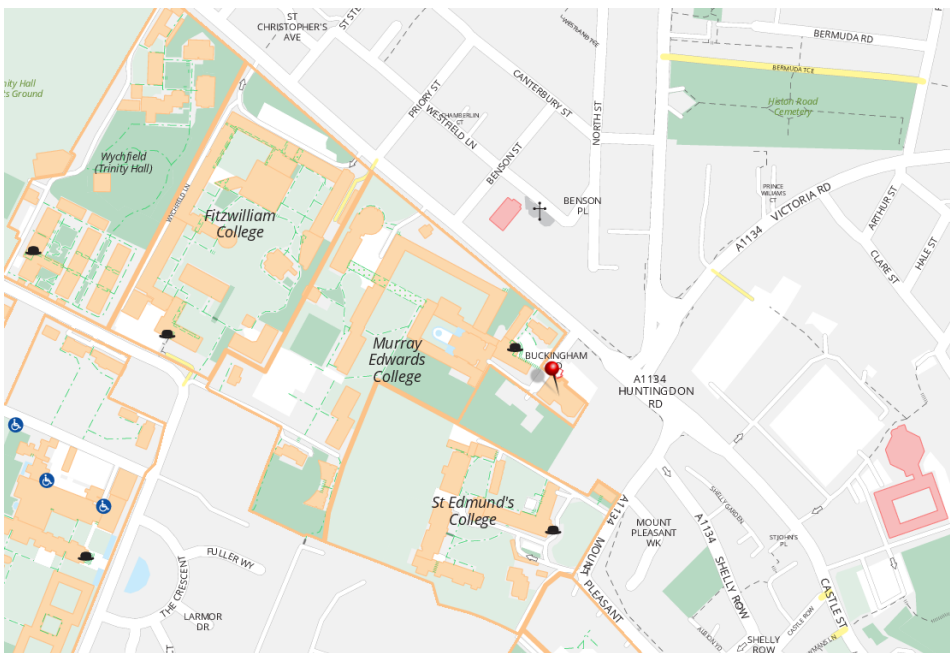
Day 1 – 26 November 2019

Morning session		
9:00 – 9:15	David Good	Introduction to the sandpit
9:15 – 9:45	Shorn Molokwane	Presentation of challenge themes – Challenge definition canvas
9:45 – 11:00	Shorn Molokwane	Needs assessment exercise – Overview and case studies
11:00 – 11:15	Coffee break	
11:15 – 12:30	John Stevens	Design methodologies
12:30 – 13:15	Lunch	
Afternoon session		
13:15 – 13:45	Francesco Ciriello	Computer vision deployment on hardware made easy
13:45 – 14:15	Jim Haseloff	Arduino hardware
14:15 – 14:45	Marwa Mahmoud and James Allingham	Machine learning capabilities and weaknesses
14:45 – 15:15	Coffee break	
15:15 – 18:00	All	Creative ideation activities – Lead by John Stevens
19:15	Dinner, Council Room, Murray Edwards College	

Day 2 – 27 November 2019

Morning session		
9:30 – 9:45	Jim Haseloff	Introduction to day 2
9:45 – 10:15	All groups	Decide on an idea to develop into concept – Supported by Shorn and John
10:15 – 10:30	Coffee break	
10:30 – 12:30	All groups	Exploration with physical sketch, modelling, prototyping, hacking – Supported by Shorn and John
12:30 – 13:15	Lunch	
Afternoon session		
13:15 – 14:45	All groups	Exploration with physical sketch, modelling, prototyping, hacking – Supported by Shorn and John
14:45 – 15:00	Coffee break	
15:00 – 16:15	All groups	Final concept presentations
16:15 – 17:00	Jim Haseloff and David Good	Results and close

Venue



**Murray Edwards College
Huntingdon Rd
Cambridge, CB3 0DF**

Day 1 Buckingham House
Lecture Theatre and Seminar
Room, see pin on the map on
the left

Day 2 Long Room, near the
Porters' Lodge in the main
building

People



David Good

University Lecturer, Department of Psychology and Director of Research, Cambridge Global Challenges Strategic Research Initiative, University of Cambridge



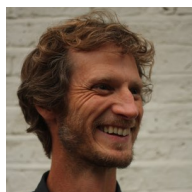
Jim Haseloff

Professor, Department of Plant Sciences and Director Synthetic Biology Strategic Research Initiative, University of Cambridge



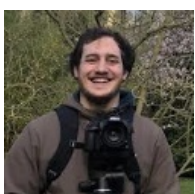
Shorn Molokwane

Senior Product Designer, Botswana Institute for Technology Research and Innovation (BITRI), Gaborone



John Stevens

Senior Tutor, Global Innovation Design, Royal College of Art, London



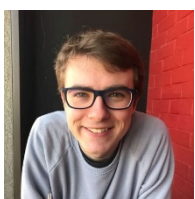
Francesco Ciriello

Education Customer Success Engineer, Mathworks, Cambridge



Marwa Mahmoud

Research Fellow, Department of Computer Science and Technologies, King's College, University of Cambridge



James Allingham

PhD student, Department of Engineering, Cambridge, University of Cambridge and Deep Learning Consultant, Wolfram Research



Oliver Hadeler

Programme Manager, CamBridgeSens Strategic Research Network, University of Cambridge



Sara Serradas Duarte

Programme Manager, Cambridge Global Challenges Strategic Research Initiative, University of Cambridge

Mohammed Alawami

Sensor CDT, Department of Chemical Engineering and Biotechnology

Ronita Bardhan

Department of Architecture

Paolo Bombelli

Department of Biochemistry

Simon Fairclough

Department of Materials Science and Metallurgy

Silvia Ferreri

Department of Archaeology

Gemma Goodfellow

Sensor CDT, Department of Chemical Engineering and Biotechnology

Rijak Grover

Department of Sociology

Cassi Henderson

Department of Chemical Engineering and Biotechnology

Ying Jin

Department of Architecture

Rihuan Ke	Department of Applied Mathematics and Theoretical Physics
Kelly Kooke	MRC Epidemiology Unit
Sohaib Abdul Rehman	PDN
Thomas Reitmaier	Swansea University
Yudan Ren	MRC LMB

This event has been supported by the Isaac Newton Trust small grants scheme and Prof Andrea Brand, Gurdon Institute, University of Cambridge.