

AI & DATA SCIENCE IN HEALTHCARE

Tuesday 20th June 2023 | The Royal Society, London SW1Y 5AG

11:00	Buffet Lunch Provided
11:45	Welcome Remarks <i>Sir Adrian Smith, President of the Royal Society; Professor Sir Michael Brady, Founder of Perspectum</i>
	Session One: Medical Case Studies
12:00	Does AI Help Manage Patients in the Operating Theatre? <i>Mr Myrddin Rees, General Consultant and Hepatobiliary Surgeon at Hampshire Hospitals NHS Foundation Trust</i>
12:20	Liquid Networks and Applications to Surgery <i>Professor Daniela Rus, Professor of Artificial Intelligence at MIT</i>
12:40	Big Data and How it Has Changed Medicine <i>Professor Amitava Banerjee, Professor in Clinical Data Science at UCL</i>
13:00	End of Session Panel Discussion <i>Chaired by Dr Elizabeth Fagan; Panel Members: Mr Myrddin Rees, Professor Daniela Rus and Professor Amitava Banerjee</i>
13:20	Tea & Coffee Break
	Session Two: AI in Medicine
13:50	Everything Is Better with Blockchain: 3 Reasons why Distributed Ledger Technology Enhances the Quality of AI and Machine Learning <i>Dr Alex Cahana, Venture partner, Systems and Design Thinker, Blockchanger and Web 3.0 Champion</i>
14:10	Safe Deployment of Medical Imaging AI <i>Professor Ben Glocker, Professor of Machine Learning for Imaging at ICL</i>
14:30	Advances in Non-imaging AI for Healthcare Interventions <i>Professor David Clifton, RAEng Chair of Clinical Machine Learning at the Department of Engineering Science, University of Oxford</i>
14:50	End of Session Panel Discussion <i>Chaired by Dr Michael Rosenblatt; Panel members: Dr Alex Cahana, Professor Ben Glocker and Professor David Clifton</i>
15:10	Tea & Coffee Break
	Session Three: Developing Science of AI
15:35	Medicine: An Exercise of the Imagination <i>Dr Junaid Bajwa, Chief Medical Scientist at Microsoft Research</i>
15:55	From X-ray Crystallography to AlphaFold to Generative AI: A Renaissance of Empiricism and Connectionism in Biological Science <i>Professor Eric Xing, President and University Professor at MBZUAI, Professor at Carnegie Mellon and Entrepreneur</i>
16:15	Clonal Haematopoiesis and Chronic Liver Disease <i>Dr Waihay J. Wong, Instructor in Pathology at Brigham and Women's Hospital</i>
16:35	Personalized Decision Making Using Counterfactual Logic <i>Dr Judea Pearl, Computer Scientist at University of California</i>
16:55	End of Session Panel Discussion <i>Chaired by Professor Sir Michael Brady; Panel members: Dr Junaid Bajwa, Professor Eric Xing and Dr Waihay J. Wong</i>
17:15	Close of Conference

OUR SPEAKERS



Sir Adrian Smith

President of the Royal Society and Institute Director and Chief Executive of The Alan Turing Institute



Dr Alex Cahana

Venture Partner, Systems and Design Thinker, Blockchanger and Web 3.0 Champion



Professor Amitava Banerjee

Professor in Clinical Data Science at University College London



Professor Ben Glocker

Professor in Machine Learning for Imaging at Imperial College London and Head of Machine Learning Research at Kheiron Medical



Professor Daniela Rus

Director of CSAIL, Andrew (1956), Erna Viterbi Professor EECS and Director of MIT-AF AI Accelerator at MIT



Professor David Clifton

Royal Academy of Engineering Chair of Clinical Machine Learning at University of Oxford



Dr Elizabeth Fagan

Adjunct Professor at Rush-Presbyterian-St. Luke's Medical Center



Professor Eric Xing

President and University Professor at MBZUAI, Professor at Carnegie Mellon and Entrepreneur



Dr Judea Pearl

Computer Scientist at University of California



Dr Junaid Bajwa

Chief Medical Scientist at Microsoft Research



Professor Sir Michael Brady

Founding Member of Perspectum



Dr Michael Rosenblatt

Senior Partner of Flagship Pioneering in Cambridge Massachusetts and Member of the Harvard Medical School (HMS) Board of Fellows



Mr Myrddin Rees

General Consultant and Hepatobiliary Surgeon at Hampshire Hospitals NHS Foundation Trust



Dr Waihay J. Wong

Instructor in Pathology at Brigham and Women's Hospital