

Health Data Science Symposium

26 June 2026, 9am - 5.30pm

Venue: One Farrer Hotel, Grand Ballroom, Level 6
1 Farrer Park Station Rd, Singapore 217562

Program Schedule - Morning Session

8.30 am	Registration
9.00 am – 9.15 am	Welcome Address (5 mins) Associate Professor Liu Nan Director, Duke-NUS AI + Medical Sciences Initiative (DAISI) Co-Director, SingHealth Duke-NUS AI in Medicine Institute (AIMI) Centre for Biomedical Data Science, Duke-NUS Medical School Opening Remarks by Guest of Honour (5 mins) Professor Sheemei Lok Interim Vice-Dean, Office of Research, Duke-NUS Medical School Introduction to CBDS (5mins) Associate Professor Bibhas Chakraborty Deputy Director, Centre for Biomedical Data Science Duke-NUS Medical School
9.15 am – 10.00 am	1st Keynote Lecture (1 speaker, 40mins and 5mins Q&A) Professor Iain Tan Deputy Chairman and Senior Consultant National Cancer Centre Singapore (NCCS) Deputy Group Chief Medical Informatics Officer (Research), SingHealth <i>“Abundant, accessible, reliable, governed health data: opportunities in data science and AI”</i>
10.00 am – 10.30 am	Morning Tea Break + Poster Presentations
10.30 am – 11.15 am	1st Invited Speakers Session (3 speakers, 15mins each including Q&A) <u>Speaker 1:</u> Dr. Michael Barber Chief Data Scientist, PathGEN.AI <i>“PathGen: Leveraging AI to translate Pathogen Genomics into Public Health Intelligence across Asia”</i>

	<u>Speaker 2: Dr. John Ouyang</u> Principle Research Scientist, Centre for Biomedical Data Science, Duke-NUS Medical School <i>"Decoding Single-cell Perturbation Responses Across Cell Types with cellAXIS"</i> <u>Speaker 3: Associate Professor Jinmiao Chen</u> Centre for Biomedical Data Science, Duke-NUS Medical School <i>"Population-Scale Single-Cell Atlas of the Human Heart Reveals Cellular Remodeling and Cell-Cell Communication in Aging and Cardiac Disease"</i>
11.15 am – 12.00 pm	1st Panel Session + 1 moderator (45mins) Panel Session 1: <i>Ethical and Responsible AI: Bridge between Research and Real-world Applications</i> Panellist 1: Dr Yilin Ning Senior Research Fellow, Centre for Biomedical Data Science, Duke-NUS Medical School Panellist 2: Mr Zhuang Guangyi Deputy Director, Digital Health Branch, Health Sciences Authority Panellist 3: Mr Ivan Koh Director, Regulatory Policy & Legislation Division, Ministry of Health Panellist 4: Professor Bo An College of Computing & Data Science, Nanyang Technological University Moderator: Dr Jasmine Ong Principal Clinical Pharmacist, Pharmacy, Singapore General Hospital
12.00 pm – 1.00 pm	Lunch Break + Poster Presentations
Program Schedule - Afternoon Session	
1.00 pm – 1.45 pm	Industry Sharing (3 presenters, 15mins each) <u>Speaker 1: Dr. Charlie Lee</u> Genomics Industry Lead APJ, Amazon Web Services <i>"AI in Healthcare on AWS"</i>

	<u>Speaker 2: Dr. Xiaoxi Yan</u> Chief Data Officer and Co-founder, Hexis Performance <i>"Building Hexis: From Mobile Health Research to Startup"</i> <u>Speaker 3: Dr. Weijun Xu</u> Principal Scientist, Experimental Drug Development Centre (EDDC) <i>"Structure-based drug design in the era of artificial intelligence - From Binary Affinity to Ternary Proximity"</i>
1.45 pm – 2.30 pm	2nd Invited Speakers' Session (3 speakers, 15mins each) <u>Speaker 1: Associate Professor Qingpeng Zhang</u> Department of Pharmacology and Pharmacy, The University of Hong Kong <i>"AI-driven omics analysis for cardiovascular risk precision"</i> <u>Speaker 2: Assistant Professor Swapnil Mishra</u> Saw Swee Hock School of Public Health, National University of Singapore <i>"AI for Infectious Disease Modelling"</i> <u>Speaker 3: Assistant Professor Yan Shuo Tan</u> Department of Statistics & Data Science, National University of Singapore <i>"Human-AI Co-design for Clinical Prediction Models"</i>
2.30 pm – 3.00 pm	Afternoon Tea Break + Poster Presentations
3.00 pm - 3.45pm	2nd Keynote Lecture (1 speaker, 40mins and 5mins Q&A) Professor Robert Morris Head (Data, Science & Technology, and mindline.sg), Chief Technology Strategist, MOH Office for Healthcare Transformation <i>"AI Foundation Models for Singapore"</i>
3.45 pm - 4.30pm	2nd Panel Session + 1 moderator (45mins) Panel Session 2: Future of Data Science and Academic Career Development in the Era of AI

	Panellist 1: Associate Professor Sean Lam Shao Wei Deputy Director, Health Services Research Centre, SingHealth Signature Research Programme in Health Services Research & Population Health, Duke-NUS Medical School Panellist 2: Assistant Professor Swapnil Mishra Saw Swee Hock School of Public Health, National University of Singapore Panellist 3: Professor Shibasish Dasgupta Professor of Practice, Institute for Advancing Intelligence (IAI), TCG Centres for Research and Education in Science and Technology Panellist 4: Assistant Professor Yan Shuo Tan Department of Statistics & Data Science, National University of Singapore Moderator: Assistant Professor Ehsan Saffari Centre for Biomedical Data Science, Duke-NUS Medical School
4.30 pm - 5.15pm	3rd Panel Session + 1 moderator (45mins) Panel Session 3: AI and Sustainability of Society Panellist 1: Assistant Professor Carl Yang Computer Science, Emory University Panellist 2: Associate Professor Bang Liu Canada CIFAR AI Chair, Department of Computer Science and Operations Research, Université de Montréal Panellist 3: Associate Professor Zhang Qingpeng Musketeers Foundation Institute of Data Science, Department of Pharmacology and Pharmacy, The University of Hong Kong Panellist 4: Assistant Professor Wenxuan Zhang Information Systems Technology and Design, Singapore University of Technology and Design Moderator: Assistant Professor Regina Hoo Centre for Biomedical Data Science, Duke-NUS Medical School
5.15 pm – 5.20 pm	Closing Remarks Professor Enrico Petretto Director, Centre for Biomedical Data Science Associate Dean, Office of Research Duke-NUS Medical School