

C-AIM's Research Community

Engineers



CHAN Guo Wei Alvin

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Dr Alvin Chan's research interests centre around making AI technologies safe and beneficial for humanity. These encompass topics such as deep learning for medical applications, adversarial learning and generative modelling.

He has contributed several publications in premier deep learning venues such as NeurIPS, ICLR, CVPR and ACL.

Research Interests:

Generative Models, Adversarial Learning, Computational Biology, Deep Learning



FAN Xiuyi

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Dr Fan Xiuyi leads interdisciplinary research at the intersection of artificial intelligence, medicine, and education, with a particular focus on explainable AI, uncertainty quantification, and trustworthy deployment of AI systems in real-world clinical settings.

Dr Fan's research spans a wide range of applications, including medical imaging, physiological time-series analysis, hospital-at-home care, and clinical risk profiling.

Research Interests:

Explainable AI



HUANG Tao

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Dr Huang Tao’s work integrates physical climate modelling, remote sensing, and epidemiological methods to provide novel insights into the complex interactions between climate dynamics and human health, contributing to a deeper understanding of the climate–health nexus.

He also works on projecting future heat-related health burdens under climate change, and on developing low-cost strategies for heat-risk mitigation and intervention to support climate adaptation and public health decision-making.

Research Interests:
Humid heat; Climate-health nexus; Heat early warning systems



Michele NGUYEN



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Her research centers on developing advanced modelling approaches to support public health management of zoonotic diseases, with a particular focus on vector-borne, food-borne, and water-borne infections. Aiming to inform strategic planning and resource allocation, she integrates cutting-edge statistical and mathematical techniques, including spatiotemporal analysis and extreme value modelling.

Research Interests:
Population Health, Data analytics, Environment and Sustainability

	<p>Si Yong YEO Asst. Professor of Digital Health Lee Kong Chian School of Medicine Nanyang Technological University</p> <p>siyong.yeo@ntu.edu.sg</p> <p>https://dr.ntu.edu.sg/entities/person/Yeo-Si-Yong</p>	<p>Dr Yeo Si Yong specialises in AI-based biomedical data analysis, with strong expertise in computer vision and the design of robust AI systems for medical imaging, diagnostics, and decision support. His projects include medical innovation pipeline, deep learning models and multimodal analytics for healthcare.</p> <p>Dr Yeo contributes deep technical expertise in medical image understanding, predictive modelling, and medical AI, to enable research that turns complex signals into actionable insights.</p> <p>Research Interests: Medical imaging, Explainable AI, Risk Stratification, Multimodality Data Analysis, Health Informatics, Medical Data Interpretation, Population Health</p>
	<p>Baosheng YU Asst. Professor of Digital Health Lee Kong Chian School of Medicine Nanyang Technological University</p> <p>baosheng.yu@ntu.edu.sg</p> <p>https://dr.ntu.edu.sg/entities/person/Baosheng-Yu</p>	<p>Dr Baosheng Yu research focuses on applying cutting-edge AI technologies to medical data, including images, text, and signals, to improve the accuracy and efficiency of diagnosis, treatment, and patient care.</p> <p>Research Interests: Medical Imaging, Medical Image Analysis, Large Language Models for Medicine</p>
<p>(GOH Wen Bin Wilson)</p>		<p>Information is listed under Steering Committee researchers</p>

Clinicians

 <p>Dr. Kelvin LI Zhenghao Consultant, Department of Ophthalmologist Clinical Lead for Innovation and Digitalisation Tan Tock Seng Hospital Asst. Professor of Clinical Practice Lee Kong Chian School of Medicine Nanyang Technoogical University</p> <p>kelvin.lizh@ntu.edu.sg</p> <p>https://www.nhghealth.com.sg/FindDS/doctors/ttsh-kelvin-li-zhenghao</p>	<p>Dr. Kelvin Li's research portfolio focuses on the rigorous benchmarking of Artificial Intelligence and the development of resilient health systems. During his tenure as a Visiting Scholar at the Stanford Byers Eye Institute (2024–2025), he led research into the clinical applicability of Generative AI, publishing on the performance of Vision-Language Models (VLMs) and Large Language Models (LLMs) for ophthalmic diagnostics.</p> <p>He is the Principal Investigator for multiple grants, developing accessible diagnostic tools such as smartphone-based deep learning systems and virtual reality perimetry.</p> <p>Research Interests: Ophthalmology, Clinical application of Generative AI</p>
 <p>Dr. Andrew LI Yunkai Deputy Chief Informatics Officer Clinical Director, AI Office, National Healthcare Group Asst. Professor of Clinical Practice Lee Kong Chian School of Medicine Nanyang Technological University</p> <p>andrew.li1@nhghealth.com.sg</p> <p>https://www.nhghealth.com.sg/FindDS/doctors/wh-andrew-li-yunkai</p>	<p>Dr Andrew Li is both a respiratory and intensive care physician with special clinical interests in intensive care, airway diseases, and interstitial lung disease. He is also a visiting consultant at Tan Tock Seng Hospital and National University Hospital.</p> <p>His other area of interest is in health informatics, and he has been deeply involved in the development of the new-generation electronic medical system that is being rolled out in both NUHS and NHG clusters.</p> <p>Research Interests: Intensive care, respiratory medicine, health informatics</p>



Dr. NG Wee Khoon

Senior Consultant, Deputy Director,
Endoscopy Centre ,Tan Tock Seng
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With decades of experience in the field of Medicine, he specialises in pancreatobiliary diseases, advanced endoscopic procedures and general gastroenterology.

In addition to his clinical work, Adj Asst Prof Ng is actively involved in clinical research and innovation. He had contributed to several research publications and presentations in the field of Gastroenterology and Hepatology, and Medical Education. He is actively involved in clinical trials and has received grants for projects in to improve gastrointestinal care with the usage of Artificial Intelligence (AI).

Research Interests:

Gastroenterology & Hepatology



Dr. Eugene FAN Bingwen

Senior Consultant, Haematology
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Dr. Eugene Fan's research interests are in AI-driven diagnostics, thrombosis and haemostasis, medical innovation, and sustainability in healthcare. His work focuses on AI-enabled peripheral blood-film analysis, laboratory and clinical applications for thrombosis and haemostasis, and point-of-care and diagnostic medical devices that are supported by several filed patents

Research Interests:

Artificial Intelligence, Peripheral Blood
Films, Thrombosis and Haemostasis



Dr. Sabrina WONG Kay Wye

Deputy Director, Clinical Research Unit
NHG Polyclinics
Clinical Director, Primary Care and
Family Medicine
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Dr. Sabrina Wong received the NMRC HPHSR Clinician Scientist Award in 2024, and the NMRC Population Health Grant (Open) in 2025 for the development and evaluation of a digital health coach for weight management in type 2 diabetes.

Asst Prof Sabrina Wong is passionate about leveraging AI to support preventive health and chronic disease care. She received the NMRC HPHSR Clinician Scientist Award in 2024, and the NMRC Population Health Grant (Open) in 2025 for the development and evaluation of a digital health coach for weight management in type 2 diabetes. She has been awarded under the Foundation Ai Model Program in 2026 for development of a foundational model for multi-morbidity clinical decision support.

Research Interests:
Chronic Care
Population Health



Dr. Ern Yu TAN

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Dr Tan is actively engaged in research focused on translatable clinical outcomes. Her extensive research endeavors have involved collaborations with various esteemed local and international institutes. Dr Tan's primary research interest lies in biomarker discovery, with a focus on blood-based DNA and microRNA markers that could serve as potential cancer markers.

Research Interests:
Biomarker discovery, Development for breast cancer and high-risk breast diseases, Artificial Intelligence applications in breast imaging and data analytics.



Dr. Joanne NGEOW Yuen Yie

Senior Consultant, Medical Oncology
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Dr Ngeow currently heads the Cancer Genetics Service at the National Cancer Centre Singapore. Her research focuses on understanding how a gene-environmental interaction predisposes to cancer initiation and progression. Her team seeks to identify, characterize and understand genes which cause susceptibility to traditional and complex heritable cancer syndromes, to determine their role in sporadic carcinogenesis. The Cancer Genetics Service led by Dr Ngeow is the go-to for clinical cancer genetics in Singapore and the region. Dr Ngeow is funded by the National Medical Research Council, Terry Fox Foundation and Lee Foundation.

Research Interests:

hereditary cancer syndromes and translational clinical cancer genetics.

Key Researchers in Steering Committee



Joseph SUNG

Director, Centre of AI in Medicine
Distinguished University Professor
Dean, Lee Kong Chian School of
Medicine
Senior Vice President (Health and Life
Sciences)
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Joseph-Sung](https://dr.ntu.edu.sg/entities/person/Joseph-Sung)

Professor Sung is a renowned researcher in gastroenterology and hepatology. He led a group of experts from 15 Asia-Pacific countries to launch colorectal cancer screening research in 2004, and has laid down clear guidelines and promoted colorectal screenings in the region.

Professor Sung has published over 1000 full scientific articles in leading medical and scientific journals. He was listed as “Highly Cited Researchers”, released by the Clarivate Analytics, for the years 2018, 2019 and 2020. He has edited and authored around 30 books, as well as many chapters in major textbooks.

Research Interests:

Intestinal bleeding, Helicobacter pylori, peptic ulcer, hepatitis B, colorectal cancer, and other cancers related to the digestive system.



MIAO Chun Yan

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Miao-Chun-Yan](https://dr.ntu.edu.sg/entities/person/Miao-Chun-Yan)

Dr Miao is an expert on Human-Centered AI and is well-known for her impactful AI research in health, ageing, education, and digital industry. She has received over 20 Best Paper and AI awards.

Dr Miao is the Founding Director and Lead PI of the Joint NTU-UBC Research Centre of Excellence in Active Living for the Elderly (LILY), the first AI-empowered interdisciplinary ageing research centre in Singapore.

Research Interests:

Human Centred Artificial Intelligence (HAI), Human AI Interaction, AI Ethics, HAI for health, ageing, sustainability and education.



GUAN Cuntai

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Guan-Cuntai](https://dr.ntu.edu.sg/entities/person/Guan-Cuntai)

Prof Guan is the Director of the Centre for Brain-Computing Research (CBCR). He has been the Director of the Artificial Intelligence Research Institute of NTU and the Co-Director for S-Lab for Advanced Intelligence from 2020-2025.

He published 420 refereed journal and conference papers and holds 26 granted patents and patent applications. He licensed 17 patents/technologies to six companies in Singapore and USA. He is a recipient of numerous awards owing to his contributions to Brain-Computer Interface research.

Research Interests:

Brain-Computer Interfaces (BCI), Machine Learning, Neural Signal & Image Processing, and Artificial Intelligence



TAO Dacheng

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Tao-Dacheng](https://dr.ntu.edu.sg/entities/person/Tao-Dacheng)

Dr Dacheng Tao’s research mainly applies statistics and mathematics to artificial intelligence and data science, and his research is detailed in one monograph and over 200 publications in prestigious journals and proceedings at leading conferences, with best paper awards, best student paper awards, and test-of-time awards. His publications have been cited over 112K times and he has an h-index 160+ in Google Scholar. He received the 2015 and 2020 Australian Eureka Prize, the 2018 IEEE ICDM Research Contributions Award, and the 2021 IEEE Computer Society McCluskey Technical Achievement Award. He is a Fellow of the Australian Academy of Science, AAAS, ACM and IEEE.

Research Interests:

Artificial Intelligence



GOH Wen Bin Wilson

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Dr. Wilson Goh’s research focuses on leveraging complex multimodal clinical datasets to develop and deploy AI solutions within hospital environments, with particular emphasis on mental health and proteomics. His recent work has expanded into implementation science, where he explores data governance issues and investigates how clinicians trust and interact with AI systems. Through his research, Dr. Goh aims to bridge the gap between basic science, AI innovation and integration into healthcare.

Research Interests:
Mental Health, AI Development, Implementation, Governance



Dr. TAN Cher Heng

Chief Medical Scientist, Centre of AI in Medicine

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Adjunct Associate Professor Cher Heng Tan graduated with a medical degree from National University of Singapore, post-graduate training in Diagnostic Radiology at MD Anderson Cancer Center, and EMBA from Insead.

He is presently Senior Consultant with the Department of Diagnostic Radiology at Tan Tock Seng Hospital (TTSH), Assistant Chairman Medical Board (Clinical Research and Innovation) at TTSH, Executive Director at Centre for Healthcare Innovation as well as Assistant Dean (Clinical Research) for Lee Kong Chian School of Medicine. His subspecialty interests are in oncologic imaging and more recently, use of artificial intelligence in medical imaging.

Research Interests:
Liver Imaging, Prostate Imaging, Artificial Intelligence in Medical Imaging



Eric WONG Ming-hai

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Medicine

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Adj A/Prof Wong drives NHG Health's digital transformation, leading strategic IT, cybersecurity, informatics, data, and analytics functions. His work blends clinical insights with innovation to improve patient outcomes. A/Prof Wong previously served as NHG's Group Chief Clinical Informatics Officer and led the implementation of the Next Generation Electronic Medical Record (NGEMR), including EPIC across two-thirds of Singapore's healthcare clusters. He has also spearheaded award-winning digital health projects such as patient vital signs automation and the NHG Cares app.

Research Interests:

AI Development, Implementation,
Emergency medicine