8TH YASS SUB-CONFERENCE

SERIES OF YOUNG ACADEMY OF SCIENCES SUMMIT

AI FOR SCIENCE

SCIENTIFIC DISCOVERY IN THE AGE OF AI

10 JUN 2026

PROGRAMME BOOKLET

2025–2027

Organiser:

THE HONG KONG YOUNG ACADEMY OF SCIENCES
香港青年科學院

Co-Organisers:

腾讯基金会 TENCENT FOUNDATION

中國科技發展基金會

京港人才交流中心 BEIJING-HONG KONG EXCHANGE OF PERSONNEL CENTRE

Funding Organisation:

創新科技署 Innovation and Technology Commission

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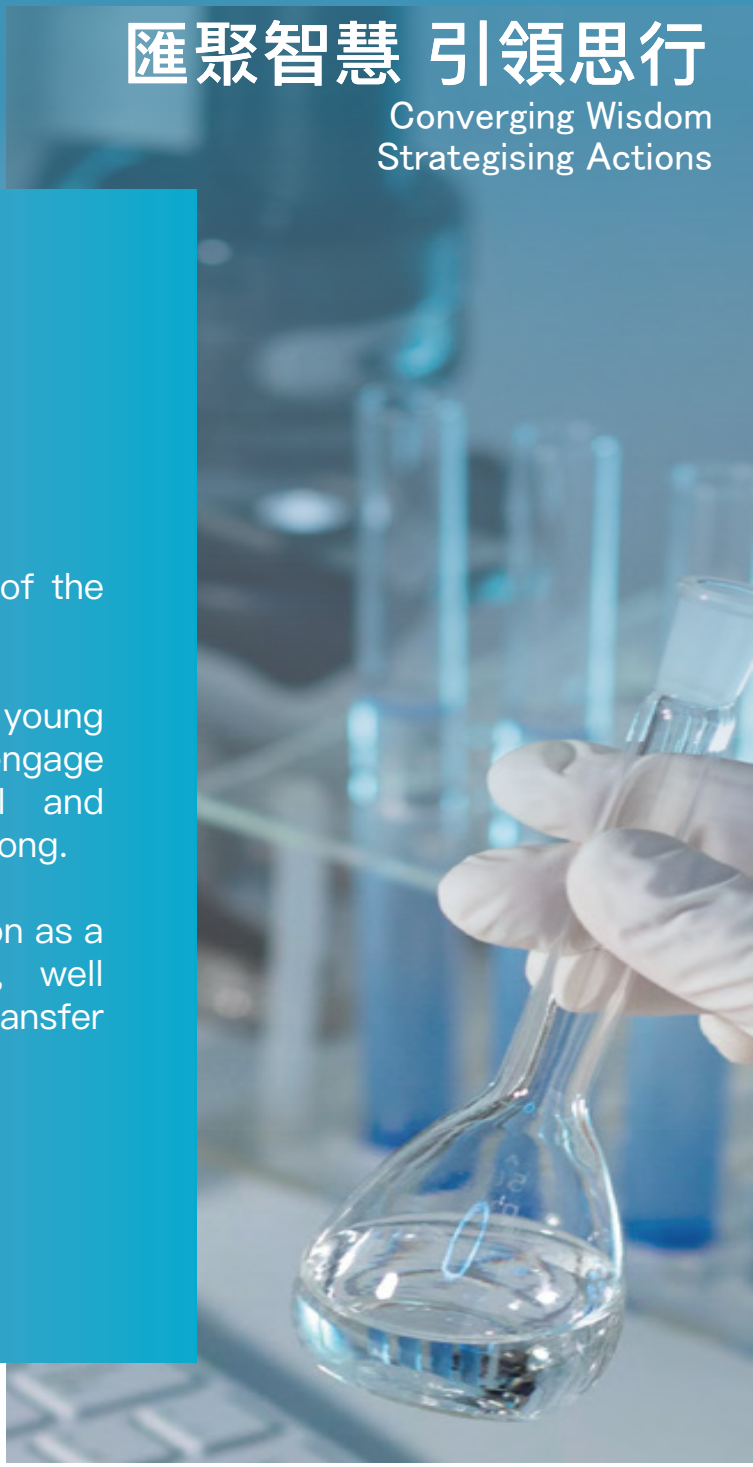
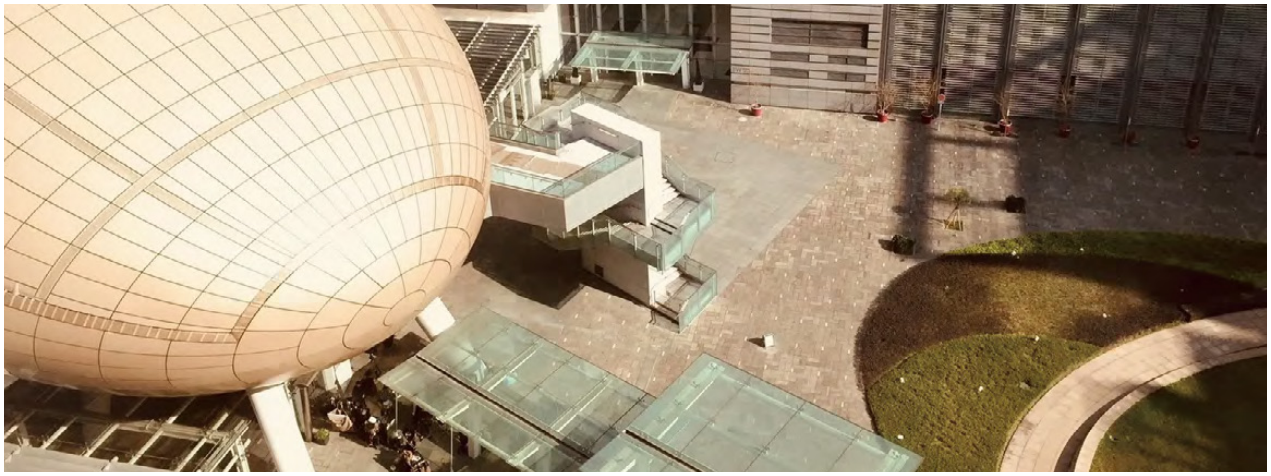
匯聚智慧 引領思行
Converging Wisdom
Strategising Actions



About YASS

- Showcases the excellent research work of the young scientists in Hong Kong.
- Provides a unique platform for local young academics and scientists to gather and engage in a cross-disciplinary, cross-cultural and cross-institutional cooperation in Hong Kong.
- Demonstrates Hong Kong's unique position as a strong and energetic research base, well prepared for any knowledge transfer collaborations.



About the Organiser

THE HONG KONG YOUNG ACADEMY OF SCIENCES
香 港 青 年 科 學 院

The Hong Kong Young Academy of Sciences

The Hong Kong Young Academy of Sciences (YASHK) was established in 2018 and is a chapter of The Hong Kong Academy of Sciences (ASHK). YASHK offers a strong platform for young scientists to make meaningful contribution to the Hong Kong community and build up a better research and education environment for science and technology. Currently, YASHK has 73 young scientists as its Members.

https://yashk.org.hk

About the Co-organisers

腾讯基金会
TENCENT FOUNDATION

Tencent Charity Foundation

Established in 2007, the Tencent Charity Foundation ("Tencent Foundation") was the first charitable foundation in China launched by an internet company, dedicated to leveraging technology to empower philanthropy. In 2022, the Tencent Foundation expanded its presence in Hong Kong. Through innovative funding models and partnerships with local organizations, we strive to promote "Tech for Good" initiatives among the youth. Leveraging Tencent's technological strengths and resources, we also facilitate cross-sector and regional collaboration to drive the use of technology for social good in the digital age.

https://www.tencentfoundation.org/

中國科技發展基金會
Foundation for the Development of Science and Technology in China

Foundation for the Development of Science and Technology in China

Foundation for the Development of Science and Technology in China, a national 4A-level public fundraising foundation established in 1991, operates under the China Association for Science and Technology to advance scientific literacy, talent development, innovation, and international collaboration.

京港人才交流中心
BEIJING-HONG KONG EXCHANGE OF PERSONNEL CENTRE

Beijing-Hong Kong Exchange of Personnel Centre

The Beijing-Hong Kong Exchange of Personnel Centre was registered as a legal entity in Hong Kong in 1987 and serves as the Hong Kong Representative Office of the China Association for International Exchange of Personnel. Its Board of Directors consists of senior professionals from Hong Kong and leading officials of the China Association for International Exchange of Personnel. By maintaining extensive ties with government bodies, universities, social organizations and people from all walks of life in the Hong Kong and Macao Special Administrative Regions, the Centre is committed to boosting science, technology and innovation(STI) cooperation as well as personnel and academic exchanges between the Chinese Mainland, Hong Kong and Macao.

About the Funding Organisation

創新科技署 Innovation and Technology Commission

Innovation and Technology Commission

To promote the development of innovation and technology, an Innovation and Technology Commission (ITC) was set up on 1st July 2000, with the mission to spearhead Hong Kong's drive to become a world-class, knowledge-based economy. The Commission formulates and implements policies and measures to promote innovation and technology; supports applied research, technology transfer and application; promotes technological entrepreneurship; facilitates the provision of technology infrastructure and development of human resources; and promotes internationally accepted standards and conformity assessment services to underpin technological development and international trade. The Commission works closely with its partners in the Government, industry, business, tertiary education institutions and industrial support organisations.

02 YASS Activity Overview

3rd YASS Summit
December 2025

Sub-Conference VII
March 2026

Sub-Conference VIII
June 2026

Sub-Conference IX
September 2026

4th YASS Summit
December 2026

Sub-Conference X
March 2027

Sub-Conference XI
June 2027

Sub-Conference XII
September 2027

Members of the Programme Committees

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The Programme Committee provides general oversight and advice to the YASS 2025–2027.

Prof. Anderson SHUM
City University of Hong Kong

Prof. Stephanie MA
The University of Hong Kong

Prof. Minhua SHAO
The Hong Kong University of Science and Technology

Prof. Kathy Oi Lan LUI
The Chinese University of Hong Kong

Prof. Zijian ZHENG
The Hong Kong Polytechnic University

Prof. Johnny HO
City University of Hong Kong

Prof. Zhifeng HUANG
The Chinese University of Hong Kong

Prof. Timothy BONEBRAKE
The University of Hong Kong

Prof. Yang CHAI
The Hong Kong Polytechnic University

Prof. Fuk Yee KWONG
The Chinese University of Hong Kong

Prof. Shih-Chi CHEN
The Chinese University of Hong Kong

Prof. Giulio CHIRIBELLA
The University of Hong Kong

Prof. Kai LIU
The Hong Kong University of Science and Technology

Prof. Dangyuan LEI
City University of Hong Kong

Prof. Ken LEUNG
Hong Kong Baptist University

Prof. Zuankai WANG
The Hong Kong Polytechnic University

Prof. Amos TAI
The Chinese University of Hong Kong

Prof. Joelle WANG
Hong Kong Baptist University

YASS (2025-2026)
Programme Rundown

04

10.06.2026

Time: 09:15–17:40

Venue: Chamber 3, InnoCentre

Topic: AI for Science (Scientific Discovery in the Age of AI)

09:15 – 09:55 **Registration**

10:00 – 10:15 **Welcome Remarks**

Anderson SHUM, President and Founding Member,
The Hong Kong Young Academy of Sciences;
Chair Professor of Chemical and Biomedical Engineering,
City University of Hong Kong

Tong YANG, Program Director,
Tencent Charity Foundation

Jin ZHU, Deputy Secretary-General,
Foundation for the Development of Science and Technology in China

Opening Remarks

Lillian CHEONG, Under Secretary for Innovation, Technology and Industry, Innovation, Technology and Industry Bureau, HKSAR

10:15 — 10:20

Group Photo

10:20 — 12:20

Session 1

Exploring the Boundaries of Intelligence

Moderator

Esther CHAN, Member, The Hong Kong Young Academy of Sciences; Professor, Department of Pharmacology and Pharmacy, LKS Faculty of Medicine (HKUMed);
Director, Centre for Safe Medication Practice and Research (CSMPR);
Associate Dean of Student Affairs, The University of Hong Kong

Speakers

Topic | Pursuing the Nature of Intelligence
Yi MA, Chair Professor; Inaugural Director of School of Computing and Data Science (HKU SCDS), The University of Hong Kong;
Inaugural Director of HKU Musketeers Foundation Institute of Data Science (HKU IDS), The University of Hong Kong;
Visiting Professor at the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley (UC Berkeley EECS); Fellow of IEEE, ACM, and SIAM

Topic | Human–Centric Physical Intelligence: Discoveries in Multimodal Sensing for Health in the Age of AI
Qian ZHANG, Tencent Professor of Engineering,
Head and Chair Professor, Integrative System and Design (ISD) Division, The Hong Kong University of Science and Technology

Topic | Monitoring Greenhouse Gases from China Space Station
Limin ZHANG, Head and Chair Professor,
Department of Civil and Environmental Engineering,
The Hong Kong University of Science and Technology

12:20 — 13:40

Lunch

13:40 – 15:40

Session 2
AI for Scientific Discovery

Moderators

Carmen Chak–Lui WONG, Member, The Hong Kong Young Academy of Sciences; Professor, Department of Pathology, Li Ka Shing Faculty of Medicine, The University of Hong Kong

Jun (Joelle) WANG, Member, The Hong Kong Young Academy of Sciences; Professor, Department of Chemistry, Hong Kong Baptist University

Speakers

Topic | Agentic Science: New Opportunities for Discovery
Lei BAI, Young Scientist, Shanghai Artificial Intelligence Laboratory

Topic | AI for Science (Scientific Discovery in the Age of AI)
Mingchen CHEN, Leading Scientist, Changping Laboratory

Topic | Decoding RNA Shapes: New Experimental Tools Meet Artificial Intelligence
Chun Kit KWOK, Member, The Hong Kong Young Academy of Sciences; Professor, Department of Chemistry and State Key Laboratory of Marine Environmental Health, City University of Hong Kong; Founder and organizer, Hong Kong RNA Club; Asia RNA Ambassadors, RNA Society

15:40 – 16:05

SciGather

16:05 – 17:25

Session 3
From Lab to Industry

Moderators

Jason Cheuk–Sing YAM, Member, The Hong Kong Young Academy of Sciences; Professor and Undergraduate Division Head at Department of Ophthalmology and Visual Sciences and Dean of General Education at Chung Chi College, The Chinese University of Hong Kong

Cheuk Lun CHOW, Member,
The Hong Kong Young Academy of Sciences;
Associate Professor, Department of Architecture and Civil Engineering, City University of Hong Kong

Speakers

Topic | AI-enpowered Geological CO2 Storage
Ruina XU, Professor, Beijing Huairou Laboratory,
Department of Energy and Power Engineering, Tsinghua University

Topic | AI for neuroscience: from lab to industry
Li SU, Professor of Neuroimaging and the Head of the Artificial Intelligence and Computational Neuroscience Group, Sheffield Institute for Translational Neuroscience, University of Sheffield

17:25 — 17:30

Concluding Remarks

Anderson SHUM, President and Founding Member,
The Hong Kong Young Academy of Sciences;
Chair Professor of Chemical and Biomedical Engineering, City University of Hong Kong

Speaker Profile

Anderson SHUM

President and Founding Member,
The Hong Kong Young Academy of Sciences

Professor Anderson Ho Cheung SHUM is the Chair Professor of Chemical and Biomedical Engineering in Department of Chemistry, Department of Biomedical Engineering, and Department of Materials Science and Engineering at City University of Hong Kong. He holds a PhD and a master's degree in applied physics from Harvard University and a bachelor's degree in chemical engineering from Princeton University. His research interests include aqueous two-phase systems, emulsions, biomicrofluidics, biomedical engineering and soft matter.

Professor Shum has received numerous awards, including the Lab on a Chip & Aline Pioneers of Miniaturisation Lectureship (2025), the 15th Guanghua Engineering Science and Technology Prize from the Chinese Academy of Engineering (CAE, 2024), the RGC Senior Research Fellow Scheme (SRFS, 2024), and the Croucher Senior Research Fellowship (2020). He was also selected as a Young Fellow of the Hong Kong Academy of Engineering (2024), and as Fellows of the International Association of Advanced Materials (FIAAM, 2023), the Hong Kong Institution of Engineers (FHKIE, 2023), and the Royal Society of Chemistry (FRSC, 2017).

Professor Shum is the President and a founding member of the Hong Kong Young Academy of Sciences, and the Founding Centre Director and Co-Director of the Advanced Biomedical Instrumentation Centre. He currently serves as an Editorial Board Member for Colloids and Interfaces (MDPI AG), an Editorial Advisory Board Member for Lab-on-a-Chip (RSC), an Editor-at-large for Droplet (Wiley), an Editor for Biomedical Instrumentation (Elsevier) and Microsystems & Nanoengineering (Springer Nature), and an Associate Editor for Biomicrofluidics (AIP).

Tong YANG

Program Director,
Tencent Charity Foundation

Tong is Program Director at Tencent Foundation (Hong Kong), where she oversees Tech for Good and venture philanthropy initiatives across Hong Kong and Asia. Her work bridges technology and social value, advancing cross-sector collaboration and innovative funding approaches to drive effective and sustainable social impact. Prior to joining Tencent, she worked in strategic consulting, impact investing, and intergovernmental organizations.

Jin ZHU

Deputy Secretary–General, Foundation for the Development of Science and Technology in China

Lillian CHEONG

Under Secretary for Innovation, Technology and Industry, Innovation, Technology and Industry Bureau, HKSAR

Ms Cheong joined the Government in 2017 as Political Assistant to the Secretary for Innovation and Technology and was appointed as Under Secretary for Innovation, Technology and Industry in July 2022. She holds a Master degree from Tsinghua University.

Before joining the Government, Ms Cheong served as Assistant to Executive Director and Joint General Manager at a listed company, where she oversaw and managed the development of real estate, industrial parks and commercial projects, technology investment, corporate digital transformation, technology application and new business development, asset allocation, and investor relations across Hong Kong, the Greater Bay Area (GBA) and Southeast Asia. In addition to her solid experience in industry development and business operations, Ms Cheong also has extensive public service experience, including serving as an advisor to a think tank, etc.

Esther CHAN

Member, The Hong Kong Young Academy of Sciences; Professor, Department of Pharmacology and Pharmacy, LKS Faculty of Medicine; Director, Centre for Safe Medication Practice and Research (CSMPR) Associate Dean of Student Affairs, The University of Hong Kong

Professor Chan's research interests include medication safety and effectiveness, utilising big data for population–based studies. She has led multicentre interventional clinical trials and has built global research networks that utilise electronic health records to connect Asia and the world. In 2012, she became a founding member and Research Lead of the Centre for Safe Medication Practice and Research (CSMPR), with a vision to improve health outcomes through interdisciplinary collaborative research that addresses crucial questions related to medication safety and effectiveness. Her research on managing acute agitation in emergency departments directly impacted clinical practice, leading to additional drug and dosing recommendations in the Australian Therapeutic Guidelines and the Hong Kong Hospital Authority drug formulary.

Professor Chan led research on the safety and effectiveness of COVID–19 vaccines to facilitate informed decision–making on vaccine uptake, contributed to the establishment of the Central Dilution procedures for vaccine preparation and developed online training programs for healthcare professionals.

As Associate Dean of Student Affairs at the Centre of Development and Resources for Students, Professor Chan believes education goes beyond knowledge acquisition to fostering adaptability, resilience, and wellbeing. She is dedicated to preparing HKU graduates to lead with courage and care for themselves and others.

Yi MA

Chair Professor;
Inaugural Director of School of Computing and Data Science (HKU SCDS), The University of Hong Kong; Inaugural Director of HKU Musketeers Foundation Institute of Data Science (HKU IDS), The University of Hong Kong; Visiting Professor at the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley (UC Berkeley EECS); Fellow of IEEE, ACM, and SIAM

Professor Yi MA is a Chair Professor and the Director HKU SCDS and HKU IDS. He is also a Visiting Professor at UC Berkeley EECS.

Professor Ma received his Bachelor's degrees in Automation and Applied Mathematics from Tsinghua University in 1995, two Masters degrees in EECS and Mathematics in 1997, and a PhD degree in EECS from UC Berkeley in 2000. He has been on the faculty of UIUC ECE from 2000 to 2011, the principal researcher and manager of the Visual Computing group of Microsoft Research Asia from 2009 to 2014, and the Executive Dean of the School of Information Science and Technology of ShanghaiTech University from 2014 to 2017. He then joined the faculty of UC Berkeley EECS in 2018. He has published about 60 journal papers, 120 conference papers, and three textbooks in computer vision, generalized principal component analysis, and high-dimensional data analysis. He received the NSF Career award in 2004 and the ONR Young Investigator award in 2005. He also received the David Marr prize in computer vision from ICCV 1999 and best paper awards from ECCV 2004 and ACCV 2009. He has served as the Program Chair for ICCV 2013 and the General Chair for ICCV 2015. He is a Fellow of IEEE, ACM, and SIAM.

Qian ZHANG

Tencent Professor of Engineering, Head and Chair Professor, Integrative System and Design (ISD) Division, The Hong Kong University of Science and Technology

Professor Qian Zhang serves as the Head of the Integrated Systems and Design (ISD) Division, a Tencent Engineering Professor, and a Chair Professor in the Department of Computer Science and Engineering (CSE) at the Hong Kong University of Science and Technology (HKUST). She also serves as Director of the Microsoft Research Asia–HKUST Joint Laboratory, Co-Director of the Huawei–HKUST Innovation Laboratory, and Director of the HKUST Digital Life Research Center. Prior to this, she served as a Research Manager at Microsoft Research Asia. Professor Zhang has published over 500 peer-reviewed papers in top international journals and conferences and holds over 50 international patents. Her current research interests include the Internet of Things (AIoT), smart healthcare, mobile computing and sensing, and wireless networks.

Professor Zhang is an IEEE Fellow and a Fellow of the Hong Kong Academy of Engineering. She has received awards, including the Ho-Leung-Ho-Lee Foundation Science and Technology Innovation Award, the China Youth Science and Technology Award, the Second Prize of the National Natural Science Award (ranked 3rd), and the MIT TR100 Award. Professor Zhang served as Editor-in-Chief of the IEEE Transactions on Mobile Computing from 2020 to 2022. She is a member of the IEEE Infocom Steering Committee.

Limin ZHANG

Head and Chair Professor, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology

Dr. Limin Zhang is Chair Professor and Head of the Department of Civil and Environmental Engineering and Associate Director of State Key Lab of Climate Resilience for Coastal Cities at the Hong Kong University of Science and Technology. His research areas include slopes, dams, foundations, and geotechnical risk assessment and management. Dr. Zhang is Chair of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)'s TC210 on Embankment Dams, Past Chair of ASCE Geo-Institute's Risk Assessment and Management Committee, Editor-in-Chief of Georisk, Associate Editor of ASCE's Journal of Geotechnical and Geoenvironmental Engineering, and editorial board member of Engineering Geology, Computers and Geotechnics and other journals. He is recipient of ASCE Ralph Peck Award, Chinese National Engineer Award, ISSMGE's Lacasse Lecture Award and Chinese National Award for Excellence in Innovation.

Carmen Chak-Lui WONG

Member, The Hong Kong Young Academy of Sciences; Professor, Department of Pathology, Li Ka Shing Faculty of Medicine, The University of Hong Kong

Dr. Carmen Chak-Lui Wong obtained her PhD degree in HKU and completed her post-doctoral training at Johns Hopkins University. She is the recipient of the NSFC Distinguished Young Scholars Fund, RGC Research Fellowship, Croucher Innovation Award, Hong Kong Young Scientist Award, the Rosie Young 90 Medal for Outstanding Young Woman Scholar, HKU Outstanding Young Researcher Award (OYRA), HKU Outstanding Research Student Supervisor Award (ORSSA), and Li Ka Shing Prize. Her research team is devoted to unraveling the complex mechanisms that drive metabolic reprogramming and immune evasion in liver cancer. Her team employs precision mouse models to gain a deeper understanding of personalized medicine for liver cancer. Her work was published in Gastroenterology, Gut, Journal of Hepatology, Hepatology, Nature Communications, Journal of Clinical Investigation, PNAS, Science Advances. She is the ESI top 1% most cited scholar in 2023-2025. She currently serves as the co-editor-in-chief of Hepatology Communications (AASLD) and the editorial board member of Hepatology (AASLD) and CMGH. She is also the council member of the governing board of the International Liver Cancer Association (ILCA).

Jun (Joelle) WANG

Member, The Hong Kong Young Academy of Sciences; Professor, Department of Chemistry, Hong Kong Baptist University

Prof. Jun (Joelle) Wang is a Professor in the Department of Chemistry at Hong Kong Baptist University. She was elected as a Member of the Hong Kong Young Academy of Sciences in 2022. Her research interests span sustainable green chemistry, asymmetric synthesis, and medicinal chemistry. Prof. Wang is the recipient of the Thieme Chemistry Journals Award, the Asian Core Program Lectureship Award, the JSPS Invitational Fellowship, and the RGC Senior Research Fellow Award.

Lei BAI

Young Scientist, Shanghai Artificial Intelligence Laboratory

Lei Bai is a young scientist and the Head of the AGI for Science Center at the Shanghai Artificial Intelligence Laboratory. After earning his Ph.D. from the University of New South Wales and conducting postdoctoral research at the University of Sydney, he has focused his research on scientific multimodal large models, AI agents, and autonomous discovery systems. His academic excellence is marked by prestigious honors such as the Google PhD Fellowship, the WAIC Yunfan Award, and Best Paper awards from DAI and IEEE TCSVT. A prolific researcher, Dr. Bai has published over 100 papers in elite venues including the Nature/Science family of journals, IEEE T-PAMI, and NeurIPS, accumulating more than 10,000 citations. He contributes significantly to the academic community as an Associate Editor for the journal Pattern Recognition, an Area Chair for PRCV, and a committee member or reviewer for major conferences like AAAI, IJCAI, and CVPR. In his practical work, he has led the development of landmark projects such as the Intern-S1 scientific multimodal model, the Intern-Discovery platform, and the Fengwu meteorological model. These achievements were featured in the 2024 NDRC "China Intelligence – Benefiting the World" case collection and have received extensive coverage from major media outlets, including Xinhua News Agency and People's Daily.

Mingchen CHEN

Leading Scientist, Changping Laboratory

Dr. Chen Mingchen is the leading scientist of Changping Laboratory. His research focuses on AI and computational-driven biomolecular dynamics, protein folding, protein-protein interactions and drug design. His emphasis lies in the AI-driven design of large biomolecules, such as antibodies, and the optimization of their drug-like properties.

Key research achievements in recent years include:

1)Publishing over ten papers as first author or co-first author in journals such as PNAS, Nature Communications, and JACS, covering topics in protein dynamics and protein-protein interactions.

2)Contributing to the design of a CD24 antibody, which is the first AI-designed and optimized monoclonal antibody in China to receive FDA IND approval; involvement in advancing multiple small and large molecule drugs to the PCC stage; and enabling the license-out of several computationally designed drug candidates, with a cumulative value exceeding one billion RMB.

3)Leading a team to participate in the CASP13 structure prediction competition in 2018, securing sixth place globally in the free modeling category.

4)Filing multiple patent applications and priority patent applications.

Chun Kit KWOK

Member, The Hong Kong Young Academy of Sciences; Professor, Department of Chemistry and State Key Laboratory of Marine Environmental Health, City University of Hong Kong; Founder and organizer,Hong Kong RNA Club; Asia RNA Ambassadors, RNA Society

Prof. Chun Kit Kwok is a Professor at City University of Hong Kong. He obtained his B.Sc. in Chemistry from the Chinese University of Hong Kong (2009), after an exchange at UCLA, and his PhD from Pennsylvania State University (2014). He completed a Croucher Postdoctoral Fellowship at the University of Cambridge. His research explores RNA structures and interactions, focusing on G-quadruplex functions in gene regulation, RNA metabolism, and diseases. His lab develops aptamer and peptide-based tools for detecting, imaging, and intervening in these structures, and creates innovative nucleic acid-based technologies for sensing pollutants and pathogens. Prof. Kwok's contributions have been recognized with awards including NSFC Excellent Young Scientist Fund, RNA Society Early-Career Award, and RGC Research Fellowship. He was elected to the Hong Kong Young Academy of Science in 2022. He co-founded the Hong Kong RNA Club and serves as an RNA Society Asia RNA research ambassador.

Jason Cheuk-Sing YAM

Member, The Hong Kong Young Academy of Sciences; Professor and Undergraduate Division Head at Department of Ophthalmology and Visual Sciences and Dean of General Education at Chung Chi College, The Chinese University of Hong Kong

Prof. Jason Yam is Professor in the Department of Ophthalmology and Visual Sciences at The Chinese University of Hong Kong. He serves as Head of Pediatric Ophthalmology and Strabismus at Hong Kong Eye Hospital, Head of Ophthalmology at Hong Kong Children's Hospital, Editor-in-Chief of the College of Ophthalmologists of Hong Kong, and President of the Hong Kong Ophthalmological Society.

He established the role of low-concentration atropine in myopia control and prevention, reshaping the treatment paradigm. He has published more than 250 SCI-indexed articles in journals including JAMA, Lancet Global Health, Ophthalmology, and JAMA Network Open. His work on low-concentration atropine for myopia control and prevention was named one of "China's Important Medical Advancements in 2023".

He is a member of the Hong Kong Young Academy of Sciences and a Chair of Academia Ophthalmologica Internationalis. His honours include the 2024 National Science Fund for Distinguished Young Scholars, the 2024 APAO De Ocampo Lecture Award, Hong Kong's Ten Outstanding Young Persons Award in 2019, and the 2022 Josh Wallman Memorial Lecture. Since 2022, he has ranked among the world's top 2% of scientists in ophthalmology and was named one of the Asia-Pacific region's top 100 ophthalmologists since 2023.

Cheuk Lun CHOW

Member, The Hong Kong Young Academy of Sciences; Associate Professor, Department of Architecture and Civil Engineering, City University of Hong Kong

Prof. Cheuk Lun Chow is currently an Associate Professor at City University of Hong Kong. She holds a PhD in Architecture from the University of Cambridge, where her research focused on the fire hazards of glass buildings and double-skin façades. Prior to that, she earned both her Bachelor's and Master's degrees in Building Services Engineering from the Hong Kong Polytechnic University. Prof. Chow has published more than 100 refereed journal and conference articles in the field of fire engineering. She also successfully attracted more than HK$15M research fund as Principal Investigator/ Project Coordinator from HKSAR government in her career life.

Her primary research interests lie in the application of Computational Fluid Dynamics (CFD) to simulate fires, with emphasis on natural ventilation, façade fires, smoke toxicity, and fire safety in green and sustainable buildings. Her work offers essential insights into the dynamic behavior of fire and smoke in modern architecture and high-rise buildings.

Her expertise provides a strong foundation for advancing new methods in fire risk assessment. This presentation builds upon her work by exploring how AI technologies can further enhance fire safety in supertall buildings.

Ruina XU

Professor, Beijing Huairou Laboratory, Department of Energy and Power Engineering, Tsinghua University

Dr. Ruina Xu is Professor (tenured) and Dean of Energy and Power Engineering, Tsinghua University, China. She also serves as the Professor of Beijing Huairou Laboratory. She obtained a B.S. in 2002 and PhD in 2007 from Tsinghua University. Her research aims at providing answers to fundamental questions on the dynamics of multiphase flow, heat and mass transfer in micro-/nano-scale and complex porous network, which are applicable to practical low carbon and carbon neutral solutions, for example CCUS, CO2 Storage, CO2 enhanced unconventional gas/oil exploitation, and next generation of solar-thermal and geothermal systems. In-situ high pressure visualization experiments and numerical models from atom-, molecular-, pore-, core-scale to field scale are developed in her lab. In addition to providing test platforms for CO2 geological storage projects in UK, Canada and France, her team is the key technical supporter for the CCS demonstration projects in China. As the Principal Investigator, she has been in charge of several grants from NSFC, MOST, and international cooperation, such as National Distinguished Young Scholars of NSFC. She won China Youth Science and Technology Award in 2022 and the XPLORER Prize in 2025.

Li SU

Professor of Neuroimaging and the Head of the Artificial Intelligence and Computational Neuroscience Group, Sheffield Institute for Translational Neuroscience, University of Sheffield

Professor Su is Professor of Neuroimaging and the Head of the Artificial Intelligence and Computational Neuroscience Group. He has a joint appointment at both the Department of Psychiatry, University of Cambridge and the Sheffield Institute of Translational Neuroscience, University of Sheffield. He has published more than 140 peer reviewed journal publications and has a H-index of 44. He is one of the founding directors of the National Total Body PET imaging centre in Cambridge.

Professor Su is an international leader in AI for neuroscience and a pioneer in developing neuromorphic computing and its clinical applications including brain-computer interface and neuromodulation. He is leading several multicentre large scale longitudinal neuroimaging studies on understanding, detecting and developing treatments and care for neurological and psychiatric conditions.

His work also impacts policy making at national and international levels. He is an AI for Health panel member at UK Research and Innovation (UKRI), a Specialist Committee Member at National Institute for Health and Care Excellence (NICE) and member of the Steering group at National BRC Imaging Network. He is the regional co-lead for the National Network for the Application of Data Science and AI to Dementia Research and member of Alzheimer's Society's Research Strategy Council.

05

ACKNOWLEDGEMENTS

Organiser:

THE HONG KONG YOUNG ACADEMY OF SCIENCES
香 港 青 年 科 學 院

Co-Organisers:

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BEIJING-HONG KONG EXCHANGE OF PERSONNEL CENTRE

Funding Organisation:

創新科技署
Innovation and Technology Commission

政府資助計劃
Government-funded programme

Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region, the Innovation and Technology Commission or the Vetting Committee of the General Support Programme of the Innovation and Technology Fund.

8TH YASS SUB-CONFERENCE

SERIES OF YOUNG ACADEMY OF SCIENCES SUMMIT

AI FOR SCIENCE

SCIENTIFIC DISCOVERY IN THE AGE OF AI

10 JUN 2026

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