



YOUNG ACADEMY OF SCIENCES SUMMIT 青年科學家峰會

PROGRAMME BOOKLET

2023-2024

SUB-CONFERENCE II

科學領航 啟迪未來

SCIENCE, THE PORTAL
TO NEW ENLIGHTENMENTS

Organiser:



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

Co-organiser:



大灣區共同家園青年公益基金
Greater Bay Area Homeland Youth Community Foundation

Funding organisation:



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 General Support Programme Vetting Committee of the Innovation and Technology Fund.

Local academic partner



Supporting organisation



(Listed in alphabetical order)



CONTENT

01 About Young Academy of Sciences Summit (YASS) & Introduction of Organiser and Co-organisers

- Page 1 __About YASS
- Page 2 __About the Organiser
- Page 3 __About Co-organisers
- Page 4 __About the Funding Organisation

02 Activity Overview

Page 5

03 Members of the Programme Committee

Page 6

04 Programme Rundown

- Page 7 __Programme Rundown
- Page 11 __Speaker Profile

05 Acknowledgements

Page 16





YOUNG ACADEMY OF SCIENCES SUMMIT 青年科學家峰會

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

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 61 young scientists as its Members.

🌐 <https://yashk.org.hk>





ABOUT CO-ORGANISERS



Greater Bay Area Homeland Investments Limited

The Greater Bay Area Homeland Investments Limited was jointly established by international large-scale industrial institutions, financial institutions and new economic enterprises. Greater Bay Area Homeland Development Fund is set up under the Company to grasp the historical opportunities of the development of Guangdong-Hong Kong-Macao Greater Bay Area, and the construction of an International Innovation and Technology Hub, focusing on technological innovation, industrial upgrading, quality of life, smart city and all other related industries. The Company and the Fund cover venture capital, private equity investment, listed company investment, M&A investment and so on to offer financial support for outstanding entrepreneurs and enterprises, connecting industrial and financial resources, achieving long-term returns for shareholders and investors, and contributing positively to economic and social development.

🌐 <http://www.gbahomeland.com/>



Greater Bay Area Homeland Youth Community Foundation

Founded in September 2019, the Greater Bay Area Homeland Youth Community Foundation (the "Foundation") is a charitable organisation that was established to leverage the enormous growth opportunities made possible by the Greater Bay Area concept. Guided by its mission of "For Our Youth For Our Future", the Foundation is a joint effort by young leaders from all walks of life to support Hong Kong youths in their studies, careers and entrepreneurship. Taking education and training as its focus, the Foundation hopes the work will enable young people to gain a better understanding of the region's business environment and culture that is conducive to their personal and professional growth.

🌐 <https://www.gbayouth.org.hk/>



ABOUT THE FUNDING ORGANISATION

π 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.

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YASS ACTIVITY OVERVIEW

02

1st YASS SUMMIT

December 2023

Sub-Conference I

March 2024

Sub-Conference II

May 2024

Sub-Conference III

July 2024

2nd YASS SUMMIT

December 2024

Sub-Conference IV

February 2025

Sub-Conference V

April 2025

Sub-Conference VI

June 2025

MEMBERS OF THE PROGRAMME COMMITTEE

03

The Programme Committee provides general oversight and advice to the YASS 2023/24 & 2024/25.



Prof. Anderson SHUM
The University of Hong Kong



Prof. Stephanie MA
The University of Hong Kong



Prof. Minhua SHAO
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
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 (2023-2024) SUB-CONFERENCE II PROGRAMME RUNDOWN

30 MAY 2024 (THURSDAY)

Time: 09:45 – 18:00

Venue: INNO² (2/F, Building 17W, Hong Kong Science Park)

Theme: AI for Science and Engineering

09:00 - 09:45

Registration

09:45 - 10:00

OPENING CEREMONY

Welcome Message



Denvid LAU

Founding Member and Co-chair, Outreach Committee,
The Hong Kong Young Academy of Sciences;
Professor, Department of Architecture and Civil Engineering,
City University of Hong Kong;
Associate Director, CityU Academy of Innovation

Opening Remarks



Albert WONG

Chief Executive Officer,
Hong Kong Science and Technology Parks Corporation

10:00 - 12:00

SESSION 1

AI in Transformative Engineering Innovation

Moderator



Edmund Y. LAM

Professor, Department of Electrical and Electronic Engineering, Associate Dean (Innovation and Career Development), Graduate School, The University of Hong Kong; Founding Member, The Hong Kong Young Academy of Sciences

Speakers



Topic | Powering the Applications of AI: Advancing Performance and Energy Efficiency via Tailored Chip Architecture and Design

Chi Ying TSUI

Founding Head and Professor, Division of Integrative Systems and Design, Professor, Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology



Topic | Towards Robust and Heterogeneous Federated Learning

Edith NGAI

Associate Professor, Department of Electrical and Electronic Engineering, The University of Hong Kong



Topic | Diffusion Models in Imaging and Vision

Stanley CHAN

Elmore Professor of Electrical and Computer Engineering, Purdue University, United States

12:00 - 13:30

LUNCHEON

(by invitation)

13:30 - 15:30

SESSION 2

AI in Construction Industry

Speakers



Topic | Artificial Intelligence for Circularity in Construction

Tak Ming CHAN

Professor,
Department of Civil and Environmental Engineering,
The Hong Kong Polytechnic University



Topic | Human-centric Artificial Intelligence in the Construction Industry

Jiayu CHEN

Associate Professor,
Department of Construction Management,
Tsinghua University



Topic | Application of Artificial Intelligence for different project phases in the Construction Industry

Jung In KIM

Assistant Professor,
Department of Architecture and Civil Engineering,
City University of Hong Kong

PANEL DISCUSSION

Moderator



Denvin LAU

Founding Member and Co-chair, Outreach Committee,
The Hong Kong Young Academy of Sciences;
Professor, Department of Architecture and Civil Engineering,
City University of Hong Kong;
Associate Director, CityU Academy of Innovation

Panelists

Tak Ming CHAN

Jiayu CHEN

Jung In KIM

15:30 - 15:50

Coffee break

15:50 - 17:50

SESSION 3

AI in Quantum Science

Speakers



Topic | AI + Quantum Chemistry

Guanhua CHEN

Chair Professor, Department of Chemistry,
The University of Hong Kong;
Managing Director, Hong Kong Quantum AI Lab (AIR@InnoHK);
Co-founder of Hong Kong X-Tech Startup Platform



Topic | Quantum Machine Learning Algorithms: Applications and Implementations

Oscar DAHLSTEN

Associate Professor, Department of Physics,
City University of Hong Kong



Topic | Quantum Neural Networks: Exploring the Frontier of Quantum Machine Learning

Xin WANG

Associate Professor of Artificial Intelligence Thrust,
The Hong Kong University of Science and Technology (Guangzhou)

PANEL DISCUSSION

Moderator



Giulio CHIRIBELLA

Professor, Department of Computer Science,
The University of Hong Kong;
Director, QICI Quantum Information and Computation Initiative
@ HKUCS;
Elected Member, The Hong Kong Young Academy of Sciences

Panelists

Guanhua CHEN

Oscar DAHLSTEN

Xin WANG

17:50 - 18:00

CONCLUDING REMARKS



Giulio CHIRIBELLA

Professor, Department of Computer Science,
The University of Hong Kong;
Director, QICI Quantum Information and Computation Initiative
@ HKUCS;
Elected Member, The Hong Kong Young Academy of Sciences

18 : 30

Banquet

(by invitation)

SPEAKER PROFILE



Denvi LAU

Founding Member and Co-chair, Outreach Committee, The Hong Kong Young Academy of Sciences
Professor, Department of Architecture and Civil Engineering, City University of Hong Kong
Associate Director, CityU Academy of Innovation

Denvi obtained his Bachelor degree with first class honors and Master degree in Civil Engineering from the University of Hong Kong (HKU), and got his second Master degree from the Department of Civil and Environmental Engineering (CEE) at Massachusetts Institute of Technology (MIT). He then received his Ph.D. in the field of structures and materials from MIT in 2012. Prior to joining City University of Hong Kong (CityU) as an assistant professor in August 2012, he worked as a postdoctoral associate at MIT. He is currently a full professor at CityU. From January to July 2020, he was a visiting professor at MIT CEE. His research focuses on the functionalized construction materials, multiscale modeling of organic-inorganic system, moisture-induced debonding, durability and fiber reinforced polymer

(FRP) composites in structural rehabilitation. To date, Denvi has attracted over HK\$17 million fund in total for research and teaching development. He is currently the editorial board member of several international journals. He has published more than 170 referred journal and conference articles and has delivered more than 40 invited talks, which include plenary and keynote speeches in international conferences. Since 2018, Denvi has been nominated and selected as a Founding Member of the Hong Kong Young Academy of Sciences (YASHK). He has received one of The President's Awards from CityU, in recognition of his remarkable academic achievement. Denvi has been granted the 2020 Outstanding Supervisor Award from CityU in view of his excellent research supervision towards Ph.D. students. Recently, Denvi has been awarded the 2022 Outstanding Teaching Award from the College of Engineering.



Albert WONG

Chief Executive Officer, Hong Kong Science & Technology Parks Corporation

and networks cultivation, and transforming R&D endeavours into tangible innovations with commercial impact, being the keys in bringing HKSTP to be the preeminent foremost research and development hub in Hong Kong with a community of over 13,000 research professionals and 1,700 pioneering tech firms.

Prior to HKSTP, Albert spent over four decades at global conglomerates including PerkinElmer, Emerson, Caterpillar, Schlumberger and GE across US headquarters, Asia-Pacific and Mainland China CEO roles understanding company growth, investment networks and market solutions brought his insights

in contributing as a Member of the Green Technology and Finance Development Committee under the Financial Services and the Treasury Bureau, as well as the Advisory Committee for the Northern Metropolis under the Development Bureau, and to be an advocate for both the government and the I&T scenery. Understanding the importance of nurturing future innovators, he also serves as a member of the CUHK Council appointed by his alma mater, as well as a Member of the Information Systems Departmental Advisory Committee at the City University of Hong Kong.

Albert holds an Engineering Degree from the University of Hong Kong and an MBA from the Chinese University of Hong Kong. Beyond his professional pursuits, he is an avid runner who participated in more than 30 marathons worldwide.



Edmund Y. LAM

Professor, Department of Electrical and Electronic Engineering, Associate Dean(Innovation and Career Development), Graduate School, The University of Hong Kong

Founding Member, The Hong Kong Young Academy of Sciences

from Stanford University. He started his academic career at the University of Hong Kong after working in the industry in San Jose, California, for a couple of years. He is now a Professor in the Department of Electrical and Electronic Engineering, and Associate Dean of Graduate School.

Computational optics and imaging form the main focus of the work of Prof. Lam, whose broad research interests span from the design of algorithms and systems to applications especially in

semiconductor manufacturing and biomedicine. He received the IBM Faculty Award in 2013 for outstanding contributions in computational lithography technology, and was a recipient of the Outstanding Young Researcher Award (2007-08) and Outstanding Researcher Award (2018-19) at the University of Hong Kong. In addition, he is a Fellow of several professional societies, including Optica, the Society of Photo-optical Instrumentation Engineers (SPIE), the Institute of Electrical and Electronics Engineers (IEEE), the Society for Imaging Science and Technology (IS&T), Institute of Physics (IOP), and the Hong Kong Institution of Engineers (HKIE). He is also a Founding Member of the Hong Kong Young Academy of Sciences.



Chi Ying TSUI

Founding Head and Professor, Division of Integrative Systems and Design,

Professor, Department of Electronic and Computer Engineering

Director of Entrepreneurship Education

Associate Director, AI Chip Center for Emerging Smart Systems

The Hong Kong University of Science and Technology

Chi-ying Tsui received his B.S. degree in Electrical Engineering from the University of Hong Kong and Ph.D. degree in Computer Engineering from the University of Southern California in 1994. He joined the Department of Electrical and Electronic Engineering, Hong Kong University of Science and Technology in 1994 and is a full Professor in the department. He is also the Founding Head and Professor of the Division of Integrative Systems and Design. He is the Director of Entrepreneurship Education at HKUST and Associate Director of ACCESS, an InnoHK research center on AI Chip Center for Emerging Smart Systems.

Prof. Tsui's research interests include VLSI design for energy-efficient embedded machine learning, low power multimedia, wireless and artificial intelligence applications, power management circuits. He has published more than 280 referred publications and holds 15 US patents on power management, VLSI and multimedia systems. He received the best paper awards from the IEEE Transactions on VLSI Systems in 1995, IEEE ISCAS in 1999, IEEE/ACM ISLPED in 2007, and IEEE DELTA in 2008, CODES in 2012, IEEE AICAS 2023. He also received the Design Awards in the IEEE ASP-DAC University Design Contest in 2004 and 2006.



Edith NGAI

Associate Professor, Department of Electrical and Electronic Engineering, The University of Hong Kong

Distinguished Lecturer (2023-2024), IEEE Communication Society, IEEE

Senior Member, ACM

Senior Member, IEEE

Edith C.H. Ngai is currently an Associate Professor in the Department of Electrical and Electronic Engineering, The University of Hong Kong. Before joining HKU in 2020, she was an Associate Professor in the Department of Information Technology, Uppsala University, Sweden. Her research interests include Internet-of-Things, edge intelligence, smart cities, and smart health. She was a VINNMER Fellow (2009) awarded by Swedish Governmental Research Funding Agency VINNOVA. Her co-authored papers received a Best Paper Award in QShine 2023 and Best Paper Runner-Up

Awards in ACM/IEEE IPSN 2013 and IEEE IWQoS 2010. She was an Area Editor of IEEE Internet of Things Journal from 2020 to 2022. She is currently an Associate Editor in IEEE Transactions of Mobile Computing, IEEE Transactions of Industrial Informatics, Ad Hoc Networks, and Computer Networks. She has served as a program chair in IEEE ISSNIP 2015, IEEE GreenCom 2022, and IEEE/ACM IWQoS 2024. She received a Meta Policy Research Award in Asia Pacific in 2022. She was selected as one of the N²Women Stars in Computer Networking and Communications in 2022. She is a Distinguished Lecturer in IEEE Communication Society in 2023-2024.



Stanley CHAN

Elmore Professor of Electrical and Computer Engineering, Purdue University, United States

and did his postdoc at Harvard in 2012-2014. He joined Purdue in 2014.

Prof. Chan is the recipient of the IEEE Signal Processing Society Best Paper Award 2022. He is also the recipient of the Best Paper Award in IEEE International Conference on Image Processing 2016. He has won numerous teaching awards, including the Ruth and Joel Spira Outstanding Teaching Award in 2019, Purdue College of Engineering Exceptional Early Career Teaching Award in 2019, among others.

He is currently serving on the editorial board of the IEEE Transactions on Computational Imaging (Associate Editor 2019-2022, Senior Area Editor 2022-present), and IEEE Open Journal on Signal Processing (Senior Area Editor, 2022-present). He is the recipient of the IEEE Signal Processing Society Outstanding Editorial Board Award 2021, and the CVPR 2022 Outstanding Reviewer Award.

Prof. Chan does research in computational imaging. His research is supported by the National Science Foundation, Air Force Research Lab, Army Research Office, and other federal and industrial sponsors.



Tak Ming CHAN

BEng (HKU), MSc (Imperial College), DIC, PhD (Imperial College), PCAPP (Warwick), CEng, FStructE, MASCE
Professor, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University

serves as Deputy Director of the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) and Editor for International Journal of Thin-Walled Structures. Tak-Ming is leading a 5-year Research Impact Fund project funded by the Research Grants Council (RGC) on "Achieving the Circular Economy in Construction through Deconstruction and Reuse Technologies for Steel and Composite Structures". He has received numerous awards for his research, teaching, and

knowledge transfer achievements, including The Nishino Prize presented by the East Asia-Pacific Conference on Structural Engineering and Construction (EASEC) in 2022.

Tak-Ming earned his bachelor's degree in civil engineering from the University of Hong Kong, his master's degree in structural steel design and PhD in tubular structures from Imperial College London, and his Postgraduate Certificate in Academic and Professional Practice from the University of Warwick. He began his structural engineering career at Arup (Hong Kong) and was the recipient of several University scholarships, including the Chevening Scholarship and EPSRC-Hutchison Whampoa Dorothy Hodgkin Postgraduate Award.



Jiayu CHEN

Associate Professor, Department of Construction Management, School of Civil Engineering, Tsinghua University

University. His research focuses on human-centric intelligent construction systems, human-machine collaboration, and urban building digital modeling. He has led multiple research projects,

including those funded by the National Natural Science Foundation of China (NSFC), the Hong Kong Research Grants Council (GRF), Mercedes-Benz research fund, etc. Additionally, he has served as the associate editor-in-chief of the Journal of Intelligent Construction and section editor of Engineering. He has published more than 110 SCI-indexed papers and 2 books.



Jung In KIM

Assistant Professor, Department of Architecture and Civil Engineering, City University of Hong Kong
Editorial Board Member, ASCE Journal of Management in Engineering
Editor-in-chief for BIM magazine published by buildingSMART Korea

Prof. Kim received the BS and MS degrees from Seoul National University. He also received the MS and Ph.D. degrees in the Department of Civil and Environmental Engineering from Stanford University. Before joining City University of Hong Kong in 2018, he worked for the Center for Integrated Facility

Engineering (CIFE) at Stanford University as a Post-Doctoral Research Fellow. He is also a registered Professional Engineer (PE) in Civil Engineering, California, USA. His research focus is on the implementation of Virtual Design and Construction (VDC) to develop and manage sustainable and smart infrastructure and energy systems in an integrated manner.



Guanhua CHEN

Chair Professor, Department of Chemistry, The University of Hong Kong
Managing Director, Hong Kong Quantum AI Lab (AIR@InnoHK)
Co-founder of Hong Kong X-Tech Startup Platform

Professor CHEN Guanhua received his bachelor's degree in physics from Fudan University in 1986. As one of the top scorers, he was admitted to the China-US Physics Examination and Application (CUSPEA) program for further study at the California Institute of Technology, USA. In 1992, he received his Ph.D. degree in physics under the supervision of Professor William Goddard III. He then joined the University of Rochester as a postdoctoral fellow and later joined the Department of Chemistry of the University of Hong Kong in 1996 as an assistant professor. He was the Head of the Department of Chemistry from 2010 to 2016 and is currently a Chair Professor of Chemistry at the University of Hong Kong. In 2020, he founded the Hong Kong Quantum Artificial Intelligence Lab (HKQAI) and has been serving as the center director.

Prof. Chen's research focuses on efficiently and exactly solving the most important quantum mechanical equation, Schrodinger equation. He is amongst the first to use artificial intelligence to solve quantum mechanical equations to predict the physical and chemical properties of materials and design new devices. To acknowledge his achievements, Prof. Chen was elected as a Fellow of the Royal Society of Chemistry in 2011 and a Fellow of the American Physical Society in 2014. He also received the Croucher Senior Researcher Award in 2016.

To promote technology entrepreneurship in Hong Kong, Prof. Chen, together with Mr. SHEN Nanpeng, founder of Sequoia Capital China, and Prof. LI Zexiang, Professor of Hong Kong University of Science and Technology, co-founded Hong Kong X-Tech Startup Platform by collaborating with other "Super Professors" in Hong Kong in 2016.



Oscar DAHLSTEN

Associate Professor, Department of Physics, City University of Hong Kong

Oscar Dahlsten, associate professor in physics, works in the field of quantum information science. His research can be divided into the categories of: (i) information thermodynamics, (ii) foundations of quantum theory, and (iii) quantum computation and machine learning. He was trained

at Imperial College and worked at ETH Zurich, NUS Singapore, Oxford University and SUSTech before joining City University of Hong Kong. His contributions, in collaboration with others, include showing that random quantum circuits typically generate maximal entanglement, pioneering the single-shot approach to non-equilibrium statistical mechanics and defining quantum neural nets as generalisations of classical neural nets.



Xin WANG

Associate Professor of Artificial Intelligence Thrust,
The Hong Kong University of Science and Technology (Guangzhou)
National Talent Scheme Awardee
Editor of Quantum
Top Young Chinese Scholars in Artificial Intelligence
World's Top 2% Scientists 2023 (Stanford University)

Xin Wang, an Associate Professor at the Thrust of Artificial Intelligence, The Hong Kong University of Science and Technology (Guangzhou), focuses on quantum information and quantum artificial intelligence research. He previously worked as a Senior Researcher and Tech Lead at the Institute for Quantum Computing at Baidu Research, where he led the development of the quantum machine learning platform Paddle Quantum. Before joining Baidu, he was a Hartree Fellow at the Joint Center for Quantum Information and Computer Science at the University of Maryland. Dr. Wang earned his Ph.D. from the University of Technology Sydney in 2018, receiving the prestigious

Chancellor's Outstanding Thesis award. He has published over 60 papers in top-tier journals and conferences and has given numerous oral presentations at leading quantum computing and AI conferences. In 2020, he was invited to deliver a keynote speech at the top-tier quantum computing conference TQC. He has served as a program committee member for various international conferences and as an editor for the journal Quantum. He has applied for more than 50 patents in quantum computing. He was selected as Top Young Chinese Scholars in Artificial Intelligence as well as the World's Top 2% Scientists by Stanford University.



Giulio CHIRIBELLA

Professor, Department of Computer Science, The University of Hong Kong
Director, QICI Quantum Information and Computation Initiative @ HKUCS
Elected Member, The Hong Kong Young Academy of Sciences

Professor Giulio Chiribella is the director of QICI Quantum Information and Computation Initiative at the Department of Computer Science of The University of Hong Kong. He has done pioneering research on quantum causal networks, on the information-theoretic foundations of quantum theory, and on the ultimate precision limits of quantum measurements, for which he was awarded the Hermann Weyl Prize 2010. In 2020 and 2018 he received

Senior Research Fellowships from the Hong Kong Research Grant Council (RGC) and from the Croucher Foundation, respectively. He currently serves as an elected member of the Hong Kong Young Academy of Sciences, as a visiting professor at the University of Oxford, and as an editorial board member of the journal Communications in Mathematical Physics. Before joining the University of Hong Kong, he held faculty positions at Oxford University and Tsinghua University, Beijing.

ACKNOWLEDGEMENTS

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(Listed in alphabetical order)



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OF SCIENCES SUMMIT
青年科學家峰會

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