



# NEWSLETTER



The 2nd Sub-Conference of Young Academy of Sciences Summit on 30 May 2023.

## The 2nd Sub-Conference of Young Academy of Sciences Summit (YASS)

The second Sub-Conference of the Young Academy of Sciences Summit was successfully convened on 30 May 2024 at Hong Kong Science Park, serving as a platform for the exchange of ideas among budding scientists with a focus on the applications of AI for Science and Engineering.

The opening ceremony was graced by the presence of Albert WONG, the Chief Executive Officer of the Hong Kong Science and Technology Parks Corporation, who delivered the Opening Remarks, and Denvid LAU, who conveyed the Welcome Message at the beginning.

During the event, Chi Ying TSUI, Edith NGAI, and Stanley CHAN presented their groundbreaking discoveries in AI in Transformative Engineering Innovation. Tak Ming CHAN, Jiayu CHEN, and Jung In KIM shed light on AI in Construction Industry. Furthermore, Guanhua CHEN, Oscar DAHLSTEN, and Xin WANG imparted their insights on AI in Quantum Science. The conference sessions were moderated by Giulio CHIRIBELLA, Edmund LAM and Devid LAU.

Giulio CHIRIBELLA delivered the concluding remarks for this sub-conference.



Denvid LAU gave the welcome message at the beginning of the 2nd sub-conference.



Edmund LAM, Denvid LAU, and Giulio CHIRIBELLA were the moderators of the three sessions. Tong YANG and Jinyao TANG attended the 2nd sub-conference.

## The 1st Sub-conference of YASS

The 1st Sub-Conference of the Young Academy of Sciences Summit (YASS) took place on March 8, 2024, focusing on "Life Science." The event focused on the Stem Cells and Regenerative Medicine.

Kathy LUI began the conference with a warm welcome, followed by opening remarks from Anthony Tak Cheung CHAN, Vice-President (Alumni Relations and Advancement) of CUHK, and Rose WANG from New Cornerstone Science Foundation.

The Sub-Conference showcased presentations from world-renowned scientists who shared their latest research findings and cutting-edge technologies. The sessions included insights on Emerging Technology in Regenerative Biology from experts such as Kenneth POSS, Kelley YAN, Purushothama Rao TATA, Shuibing CHEN, Yang HU, Chun Kit KWOK, and Bin ZHOU. Additionally, Kathryn CHEAH, Ting XIE, and Pengtao LIU discussed Animal Models for Stem Cell Research, with Albert CHEUNG serving as the moderator. Engaging discussions on Stem and Progenitor Cells in Disease were led by Stephanie MA, Kai LIU, and Kathy LUI, with Carmen WONG as the moderator. The Sub-Conference concluded with remarks from Anderson SHUM.



The 1st Sub-conference of YASS on 8 Mar 2024.



Kathy LUI gave the welcome message of the 1st sub-conference.

## "Distinguished Master, Accomplished Students" Mentorship Programme 2024 Kick-off Ceremony

The "Distinguished Master, Accomplished Students" Mentorship Programme 2024 Kick-off Ceremony was successfully held on 24 March 2024. 27 YASHK Members are serving as mentors for secondary 4 students, including Timothy BONEBRAKE, Jasper CHAN, Esther CHAN, Giulio CHIRIBELLA, Johnny HO, Zhifeng HUANG, Fuk Yee KWONG, Tommy LAM, Denvid LAU, Vic LAW, Danyuan LEI, Hua-Bai LI, Xuechen LI, Kai LIU, Yang LU, Stephanie MA, Ling SHI, Anderson SHUM, Jianwei SUN, Kevin TSIA, Jun WANG, Zuankai WANG, Carmen WONG, Raymond WONG, Angus YIP, Li ZHANG, Zijian ZHENG.

The Programme aims to enhance students' exposure to current scientific and technological development in Hong Kong and nurture future talents through experience sharing and interaction with experienced professionals. Over the one-year mentorship, mentors will inspire students with real-world experience and scientific knowledge on a personal level, providing advice to help them



The DMAS Programme Kick-off Ceremony on 24 Mar 2024.



Stephanie MA shared with her mentees.



Angus YIP shared his experience during the Mentors-Mentees sharing session at the kick-off ceremony.



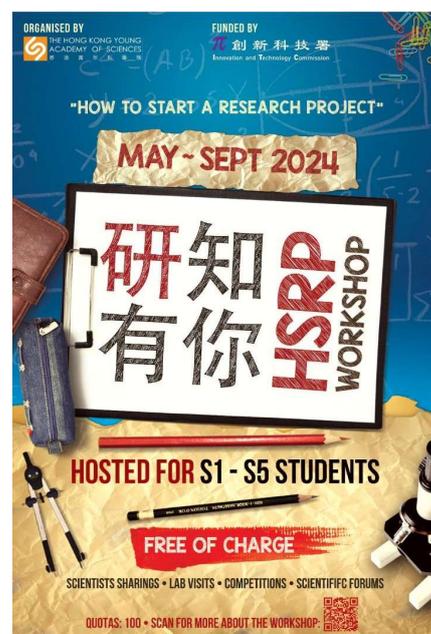
Dennis LO, Stephanie MA, Yuk-lin CHOI, and 3 representatives from secondary school principals' associations were invited to officiate the kick-off ceremony.

## HSRP Workshop 2024

YASHK has launched the third year of "How to Start a Research Project" Workshop, designed for Secondary 1 to Secondary 5 students to sharpen their skills in carrying out scientific research. YASHK Members will lead the workshops to teach the secondary school students effective ways to start a research project and to improve their analytical, planning, organising and presentation capabilities.

## Outreach Science Popularization Talks and Lab Visit- "Meeting the Scientists"

YASHK Members were invited by ASHK Community Education Centre to give talks to local secondary school students, sharing their stories on becoming successful scientists. Carmen WONG spoke to Christian and Missionary Alliance Sun Kei Secondary School students on February 5, 2024, and hosted a laboratory visit for Pui Ching Middle School students on May 9, 2024. Denvid LAU shared his stories with St. Paul's Co-Educational College on April 29, 2024.



HSRP Workshop 2024



Carmen WONG hosted a lab visit for Pui Ching Middle School on 9 May 2024.



Carmen WONG shared her experience to the students at the "Meeting the Scientists" talk.



Denvid LAU delivered a talk to Secondary 4 & 5 students on 29 April 2024.

## Warm Talking by Orange News

Kathy LUI and Anderson SHUM were interviewed by the Warm Talking Programme by the Orange News to share their views and vision on the Young Academy of Science Summit.



Kathy LUI and Anderson SHUM were interviewed on the Orange News Programme.

## Strive and Rise Programme

Collaborated with the Hong Kong Young Industrialists Council (HKYIC), Anderson SHUM and Angus YIP serves as speakers for the "Strive and Rise Programme" event series, sharing their research path and providing insight to secondary students on career planning and future exploration. Mentees from the "Distinguished Master, Accomplished Students" Mentorship Programme were also invited to participate.



The Strive and Rise Programme sharing session on 20 Apr 2024.



Anderson SHUM delivered a speech at the sharing session.



Angus YIP delivered a speech at the sharing session.

## 3rd TERA-Award Presentation Ceremony

Yi-chun LU and Anderson SHUM attended the 3rd TERA-Award Presentation Ceremony. Yi-chun LU shared her experience in developing the "Low-Cost Flow Battery" project, which won the Bronze Award in the inaugural TERA-Award Competition.



Yi-chun LU shared her research experience at the 3rd TERA-Award Presentation Ceremony.



Anderson SHUM attended the 3rd TERA-Award Presentation Ceremony.

## Second City Innovation and Technology Grand Challenge

Dennis LO, Denvid LAU, Vic LAW and Anderson SHUM were invited to attend the Second City Innovation and Technology Grand Challenge Launching Ceremony on 16 March 2024.



Dennis LO, Denvid LAU, Vic LAW and Anderson SHUM attended the Second City Innovation and Technology Grand Challenge Launching Ceremony.



# 2024/25 Budget

YASHK submitted a proposal for the HKSAR Government 2024-25 Budget.



香港青年科學院 2024/25 財政預算案建議

- 科學基金**
- 增加科研項目資助金，以支持香港優秀青年和國際學術界。
  - 擴大研究去學額，加強大學研究資助，吸引國際研究及本地博士候選人來港攻讀，以推動香港的學術研究水平。
  - 提供穩定及充足撥款，以吸引和培養優秀科學人才，推動高質素發展。
- 研究及發展計劃**
- 增加研究員【YASHK計劃】，以加強香港在科學、創新和技術領域的領導地位。
  - 加大對 YASHK 研究員計劃的支持，包括「高學研 3+1計劃」和「傑出人才」計劃，以促進更多青年項目發展。
  - 加大對「高學研 3+1計劃」的支持，以促進學術和研究成果轉化的工作，進一步推動香港成為國際創新科技中心。
  - 增加對科學轉化的行政支持和資源，包括科技轉化專員及實習計劃，推動科研成果轉化為商業。
- 科學活動**
- 增加對科學活動的支持，包括國際科學展覽的舉行，增加國際對科學的認識及興趣，在社會營造濃厚的科學文化。
- 科學工程**
- 落實「新創工業資助計劃」，讓優秀青年參與創新項目，發展由學術創科轉化為類型。
- 人工智能大數據應用**
- 加大資助金，推動人工智能和大數據技術的研發和應用，提高香港在科技領域的競爭力。

## YASHK Proposal for the Budget



YHSA(Asia) 2024

# S.T. Yau High School Science Award (Asia) 2024

The Hong Kong Academy of Sciences (ASHK), Yau Mathematical Science Center of Tsinghua University and The Institute of Mathematical Sciences of The Chinese University of Hong Kong co-organised the S. T. Yau High School Science Award (Asia) (YHSA(Asia))2023. The registration and research outline submission deadline is 16 June 2024. YASHK Members continue to support the competition by serving as the assessment panel members.

# Ming Po STEM Column

To promote and advance science and technology education, YASHK Members authored 26 articles on various scientific topics for the student column page of Ming Pao, from September 2022 to May 2023, with a focus on Primary 4 to Primary 6 local students.



Ming Pao STEM Column - (from the left) Chun Kit KWOK, Yi-chun-LU, Xinhui LU, Jun WANG, Xiaoming YUAN, Jonathan CHOI.

# Wen Wei Po STEM Column

YASHK Members were invited to contribute articles to the STEM column page of Wen Wei Po. The articles aimed to share Members' scientific research projects and experiences with Secondary 4 to Secondary 6 local students. 3 articles were published from February to May 2024.



Wen Wei Po STEM Column - (from the left) Denvid LAU, Joseph CHAN, and Kathy LIU.

## The 3rd Sub-Conference of YASS

The 3rd Sub-Conference will focus on Advanced Manufacturing and New Energy Technology Industries. Programme Committee Members are Yang LU, Zuankai WANG, Angus YIP and Zijian ZHENG. More details will be announced soon.



The 3rd Sub-Conference of YASS (Proposed)

## The 2nd Summit of YASS

The 2nd Summit of YASS is scheduled to take place on 13 Dec 2024 (Friday) at the Charles K. Kao Auditorium, Hong Kong Science Park. Please save the date!



The 2nd Summit of YASS (Proposed)

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