



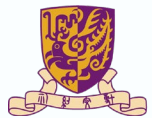
香港中文大學理學院  
**FACULTY OF SCIENCE**  
THE CHINESE UNIVERSITY OF HONG KONG

# **Postgraduate Virtual Info Session**

# **2025-2026**

**22 October 2024**

**Prof. NGAI To**  
**Assistant Dean (Research),**  
**Faculty of Science**



# CUHK Rankings

**36<sup>th</sup>**

in the World

**QS World University  
Rankings 2025**

**10<sup>th</sup>**

in Asia

**Times Higher Education (THE)  
Asia University Rankings 2024**

**1<sup>st</sup>**

in Hong Kong

**U.S. News & World Report  
Best Global Universities in Asia 2024-2025**



香港中文大學理學院  
**FACULTY OF SCIENCE**  
THE CHINESE UNIVERSITY OF HONG KONG

Est. in 1963

## Mission of Faculty of Science

### Education

To educate and inspire the next generation of scientific innovators and leaders

### Research

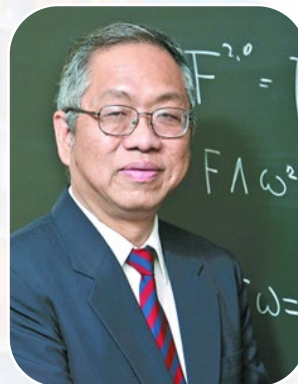
To expand the frontier of human knowledge

# About Faculty of Science (FOS)

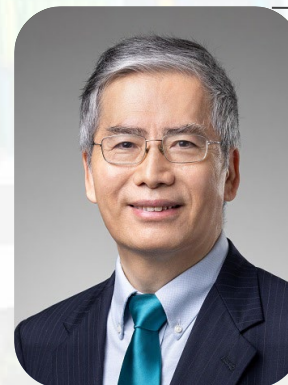
## • World-renowned Scientific Leaders



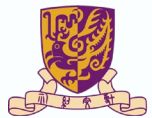
• **Professor Chen Ning YANG**  
Nobel Laureate |  
Distinguished Professor-at-Large of Physics, CUHK



• **Professor Shing Tung YAU**  
Fields Medal Winner |  
Emeritus Graustein Professor of Mathematics,  
Harvard University



• **Professor Chunshan SONG**  
Dean of Science, CUHK |  
George A. Olah Award, American  
Chemical Society (ACS)



# 6 Academic Units

**400+** Teaching & Research Staff; **600+** Research Postgraduate Students; **500+** Taught Postgraduate Students



**Department of Chemistry**



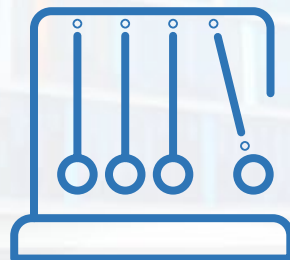
**Department of Earth and Environmental Sciences**



**School of Life Sciences**



**Department of Mathematics**



**Department of Physics**



**Department of Statistics**



# FoS Strategic Research Area



Artificial Intelligence,  
Machine Learning, Big Data,  
Risk Analytics



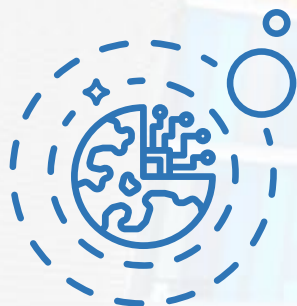
Chemical and Synthetic  
Biology for Emerging Diseases



Clean and Sustainable Energy,  
Environment, and Food



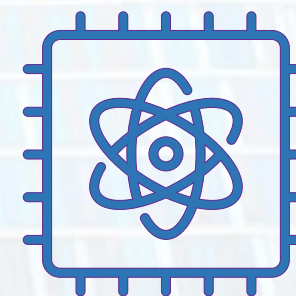
Green and Sustainable  
Technology for  
Low-Carbon Society



Intelligent Computing for Earth,  
Energy, Climate, Atmosphere,  
Materials, and Space



Integrated Capability Building for  
Biological Science and Applications



Quantum Science and  
Technology

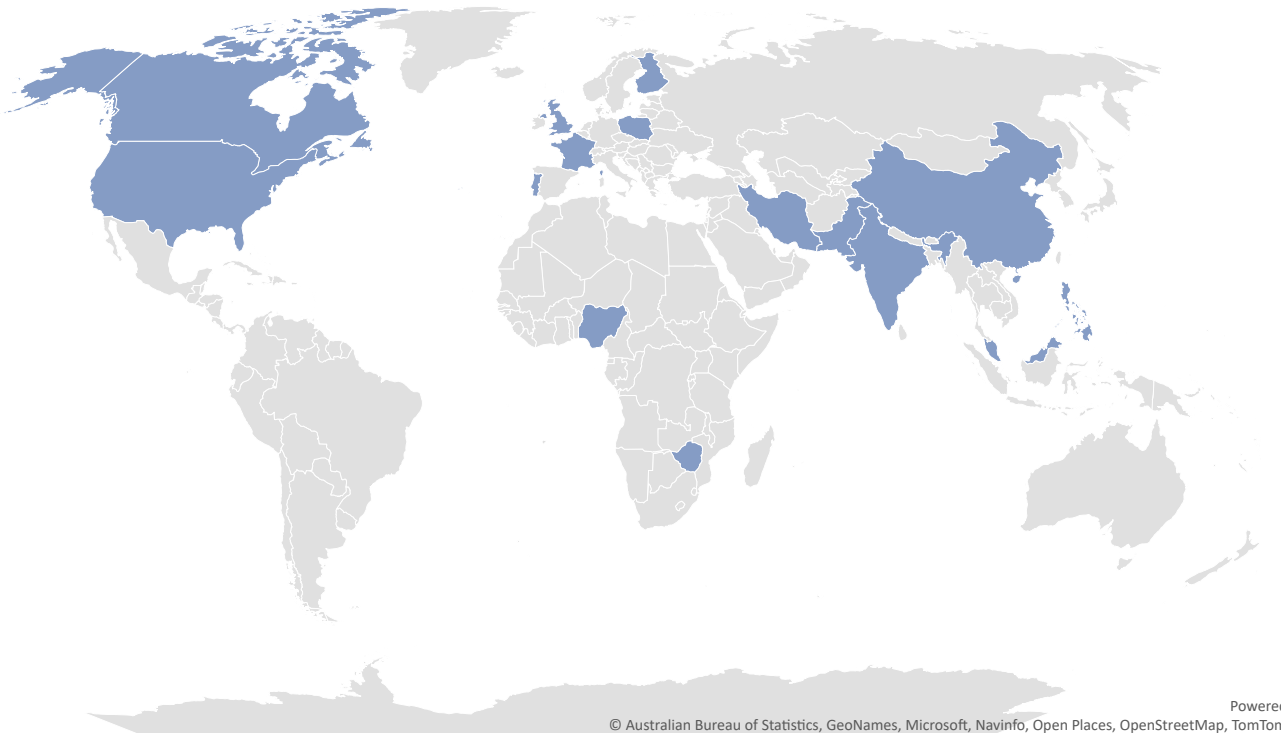


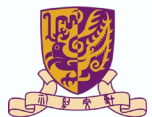
# Distribution of Student Origin at FOS

Our postgraduate students come from over 20 different countries/regions from all over the world including:

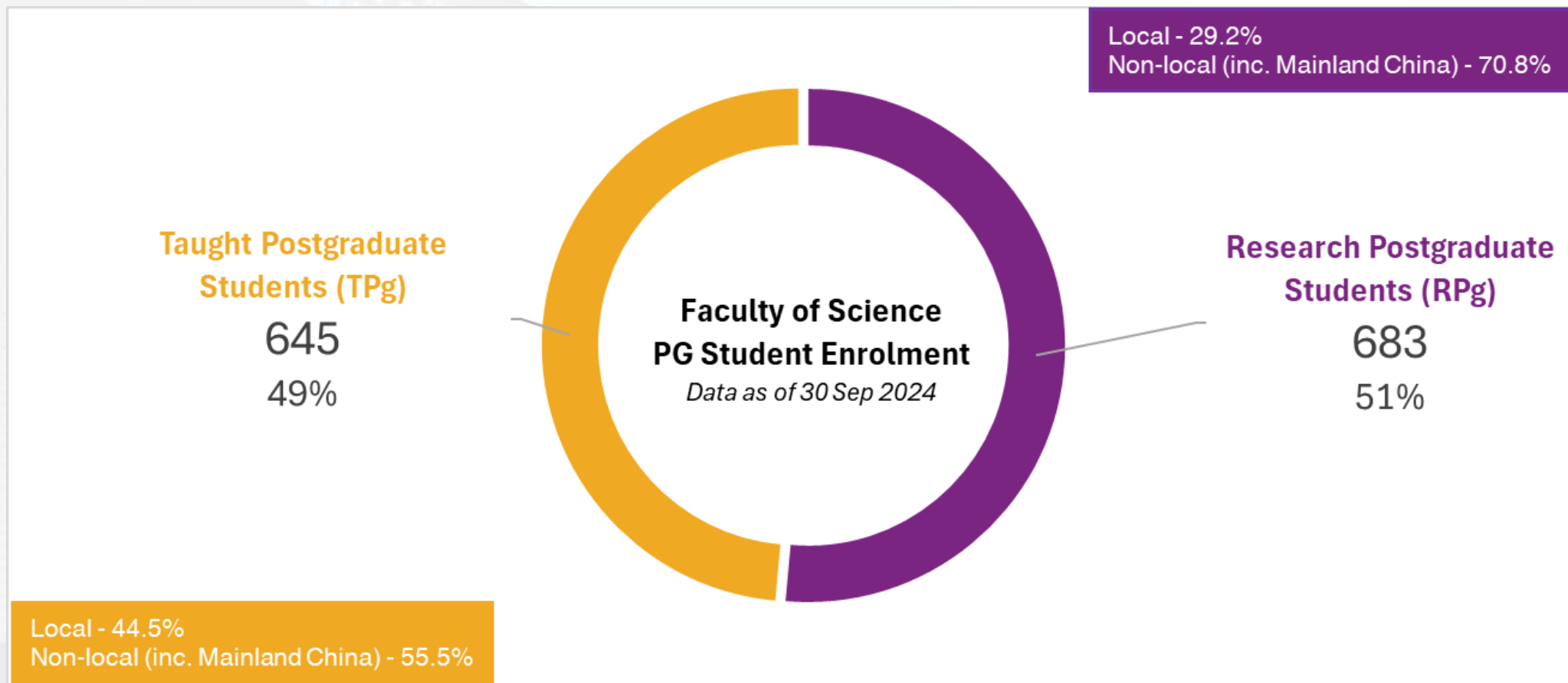
- Canada
- China
- Finland
- France
- India
- Iran
- Macao
- Malaysia
- Nigeria
- Pakistan
- Philippines
- Poland
- Portugal
- Singapore
- South Korea
- Taiwan
- Thailand
- United Kingdom
- United States
- Zimbabwe
- .....

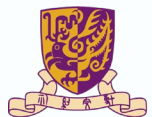
Nationality of CUHK PG Students





# CUHK FoS Postgraduate Students (PG) Composition





# Research Excellence

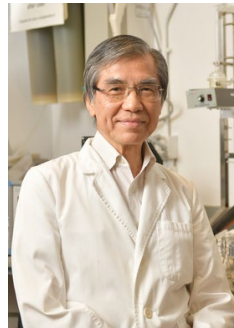
Highly Cited  
Researcher



Prof. Xinhui LU  
(PHYS)



Prof. Jianfang WANG  
(PHYS)



Prof. Po Keung WONG  
(LSCI)



Prof. Jimmy Chai Mei YU  
(CHEM)



Prof. Bangti JIN  
(MATH)

Cross-Field (*\*By alphabetical order*)

Mathematics

## 2022 “World’s Top 2% Scientists by Stanford University

- THREE CUHK Science scholars were among the Top 100 Most Cited in their sub-fields of research based on their career-long citation impact



Prof. Chunshan SONG  
(CHEM) - Energy



Prof. Thomas Chung Wai MAK  
(CHEM) - Inorganic & Nuclear Chemistry

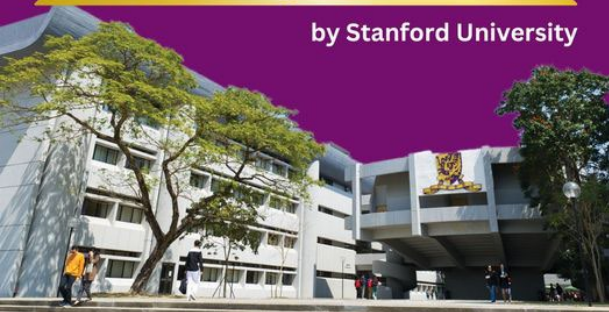


Prof. Juncheng WEI  
(MATH) - General Mathematics

54 CUHK Science Scholars  
among

2023  
World’s Top 2% Scientists

by Stanford University







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Science *Empowers* Your Dreams  
Learn Science to *Better* the World

# Research Achievements

The University Grants Committee (UGC) has selected **24 Areas of Excellence (AoE) projects** from eight tertiary institutions in Hong Kong, and **four** of them are led by members of CUHK Faculty of Science.



**Plant and Fungal Biotechnology**  
**Prof. Samuel S.S. SUN**  
*HK\$63.8 million (~ US\$8.17 Million)*

**Sustainable Agriculture & Food Security**  
**Prof. Hon Ming LAM**  
*HK\$81.2 million (~ US\$10.4 Million)*



**Cell Organelle Biogenesis & Function**  
**Prof. Liwen JIANG**  
*HK\$47.3 million (~ US\$6.06 Million)*

**Probing the Fundamental Structure of Matter with High Energy Particle Collisions**  
**Prof. Ming Chung CHU**  
*HK\$78.8 million (~ US\$ 10.09 Million)*



## International / Industrial Collaboration



**European Organization for Nuclear Research (CERN)**



**Laser Interferometer Gravitational-Wave Observatory**



**BASF**  
We create chemistry





# Vibrant and Diversified Faculty

CUHK Science consists of eminent scholars from all over the world, who committed to nurturing innovative technology leaders embracing the world with global visions and social responsibility.



**Prof. Shelby E. MCILROY**  
(LSCI)



**Prof. Benoit THIBODEAU**  
(EES)



**Prof. Omar KIDWAI**  
(MATH)



**Prof. Michael PITTMAN**  
(LSCI)



**Prof. Oleksandr SAVATIEIEV**  
(CHEM)



**Prof. Otto Akseli HANNUKSELA**  
(PHYS)



**Prof. Michael McBREEN**  
(MATH)



# Vibrant and Diversified HKPFS Awardees

Hong Kong PhD Fellowship Scheme aims to attract the best and brightest students from across the globe to pursue their PhD studies at CUHK. Some elite HKPFS awardees at CUHK Science are as follows:

**Laura Elina URONEN**  
from Finland



PhD Student in Physics

Pursuing PhD studies at CUHK has so far been a wonderful experience. The community and environment here are vibrant, and the University offers many opportunities for international collaboration by providing funding for conference travel. This has helped me broaden my research network and is invaluable for my professional development.

**Salman AHMAD** from Pakistan  
PhD Student in Mathematics

I am grateful to HKPFS for giving me the opportunity to be part of such a reputable institute. CUHK is the best school I could have ever wanted. The classes, extracurricular activities and the unique cultural experience are some of the school's highlights. All faculty members are extremely knowledgeable. Their professional approach and guidance shape our minds for new research endeavours.



**Abd'gafar Tunde TIAMIYU**  
from Nigeria

PhD Student in Mathematics

Studying at CUHK has been an exceptional experience. Diversity and inclusion are welcoming. The learning environment with stalwart researchers conducting world-class studies is altogether compelling. I have access to any study material I need. I am deeply indebted to HKPFS and CUHK for this opportunity to pursue my dreams.



**Chiamaka Linda Mgbechidinma**  
from Nigeria  
PhD in Cell and Molecular Biology  
(HKPFS Awardee)

"My PhD experience has been metamorphic. Aside from diversity and inclusion practice, my programme is rich in a wide array of advanced learning resources and supportive faculty members with international exposure. Solidly, the programme fuels the drive for several transformative and innovative research outputs for global benefit. "

**Hemraj BHATTARAI** from Nepal  
PhD Student in Earth and Atmospheric Sciences  
(HKPFS awardee)



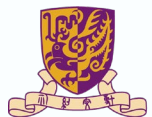
I would like to thank CUHK and HKPFS for giving me the chance to pursue my dream of becoming an academic professor. The extremely supportive and motivating research team and faculty members constantly encourage my research on atmospheric modelling. CUHK feels like a second home to me.

**Alissa Victoria BASS**  
from United Kingdom

PhD student in  
Environmental Science  
(HKPFS awardee)



Having moved to Hong Kong from the UK, CUHK has supported me every step of the way and continues to do so through my PhD. I have access to a wide variety of available resources, as well as gaining much knowledge from my supervisor and the professors in the School of Life Sciences.



# PG Programmes Offered at FOS

## 13 Research Postgraduate Prog. (RPg)

MPhil-PhD in Biochemistry

MPhil-PhD in Biology

MPhil-PhD in Cell and Molecular Biology

MPhil-PhD in Chemistry

MPhil-PhD in Earth and Atmospheric Sciences

MPhil-PhD in Environmental Science

MPhil-PhD in Food and Nutritional Sciences

MPhil-PhD in Materials Science and Engineering

MPhil-PhD in Mathematics

MPhil-PhD in Molecular Biotechnology

MPhil-PhD in Physics

MPhil in Risk Management Science

MPhil-PhD in Statistics

## 9 Taught Postgraduate Prog. (TPg)

MSc in Accreditation Chemistry

MSc in Advanced Studies in Statistics and Data Science

MSc in Biochemical and Biomedical Sciences

MSc in Data Science and Business Statistics

MSc in Mathematics

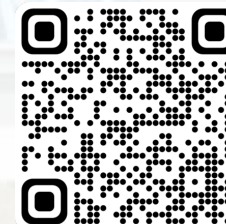
MSc in Nutrition, Food Science and Technology

MSc in Physics

MSc in Risk Management Science and Data Analytics

**Application Timeline &  
Procedures**

<http://cuhk.hk/cugs>





# Postgraduate Students' Activities at FOS

We are always by your side to guide you on your journey of discovery and innovation.

## Postgraduate Research Day Since 2020

- Presentation awardees will be given priority in the application for “**Dean’s Postgraduate Conference Award**” (HK\$ 25k [~US\$ 3.2k] per award to support PG conference trips)



2023-24 SCIENCE FACULTY POSTGRADUATE RESEARCH DAY  
8 MAY 2024  
0930 - 1630 · LSK LT4 (Oral Presentation) LSK LT4 Foyer (Poster Presentation)

**Oral Presentation**

<p><b>Molecular Mechanisms of Peroxisome Tubulation and Lipid Droplet Degradation in Germinating Arabidopsis Seedlings</b> KWOK Chung Yu Dorcas (CoE &amp; Molecular Biology / PhD Year 1)</p>	<p><b>Condensation Completion and Defects in 3D Topological Orders</b> WU Qun (Physics / PhD Year 2)</p>
<p><b>The Possible Role of ST Post-Endosome-Associated Protein, ATYCH1, on Transcriptional Regulation in Arabidopsis</b> CHENG Sau Shan (Molecular Biotechnology / PhD Year 8)</p>	<p><b>Weather Risk Management and Pricing with Spatial-Temporal Random Fields</b> WANG Zhen (Risk Management Science / MPH Year 2)</p>
<p><b>Synthesis, Structure, and Reactivity of New Masked Azobenzene Boryl Reagents</b> MAD Yikang (Chemistry / PhD Year 4)</p>	<p><b>Joint Mixed Membership Modelling of Multivariate Longitudinal and Survival Data for Learning the Individualized Disease Progression</b> HE Wuyang (Statistical / PhD Year 3)</p>
<p><b>Density-Equalizing Quasi-Conformal Mapping with Applications</b> LIU Zhuyuan (Mathematics / PhD Year 3)</p>	<p><b>Impacts of Surface Ozone Pollution on Agriculture in China: Application of Innovative Technologies, Social Outcomes, and Policy Implications</b> MAD Jie (Earth &amp; Atmospheric Sciences / PhD Year 3)</p>

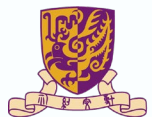
**Poster Presentation**

<p><b>Life Sciences</b> BASS Alissa Victoria (Environmental Science / PhD Year 3) LI Yuxuan (Biochemistry / PhD Year 4) LI Ming Chen (CoE &amp; Molecular Biology / PhD Year 4) YUANG Hai Wei (CoE &amp; Molecular Biology / PhD Year 2)</p>	<p><b>Physics</b> CHAM Li Chun (Physics / MPH Year 2) XIA Xinyu (Materials Science &amp; Engineering / PhD Year 4)</p>
<p><b>Chemistry</b> QIE Fangyuan (PhD Year 2) LOU Hongtao (PhD Year 2)</p>	<p><b>Risk Management Science</b> CHENG Pak Hon (MPH Year 2) MA Ting Tri (MPH Year 2)</p>
<p><b>Mathematics</b> HO Tszho (PhD Year 3) LI Yan Lung (PhD Year 3)</p>	<p><b>Statistics</b> LI Chenghao (PhD Year 2) LI Dongqiang (PhD Year 4)</p>
<p><b>Earth &amp; Atmospheric Sciences</b> LAU Chung Shing (MPH Year 3) ZHANG Weisong (PhD Year 3)</p>	




## Postgraduate Welcoming Ceremony since 2024

- Professor SONG Chunshan introduced the CUHK Science deanery, Unit Heads, and Division Heads, setting the stage for an enriching academic journey for postgraduate freshmen.



# CUHK FoS PG Students Awards Highlight

## 2022-2023 Awardees of Croucher Fellowships for Postdoctoral Research

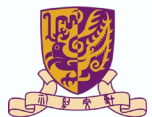
Awards	Awardees
<b>Croucher Fellowships for Postdoctoral Research</b> A prestigious Postdoc Fellowship with maintenance allowance of US\$ 63,000 per annum  Croucher Foundation 裘槎基金會	<b>2022-2023</b> - CHEUNG Ho Yeuk Mark (Physics/2021) - NG Kwan Yeung Ken (Physics/2017) - YANG Tongou Tom (Mathematics/2015; MPhil/2017)
	<b>2021-2022</b> - LAW Yuk Ting Albert (Physics/2015)
	<b>2020-2021</b> - Au Yik Ki (Chemistry/2016; PhD/2020)
	<b>2019-2020</b> - LEE Chin Ho (Mathematics/2012)
	<b>2018-2019</b> - PO Hoi Chun Adrian (Physics/2013)



NG Kwan Yeung Ken



YANG Tongou Tom



# CUHK FoS PG Students Awards Highlight

Awards	Awardees
8 <sup>th</sup> Hong Kong University Student Innovation and Entrepreneurship Competition (2022)	- <b>First Prize</b> in Life Science: Liu Min and Wang Yue (PhD Students in Chemistry)
9 <sup>th</sup> Hong Kong University Student Innovation and Entrepreneurship Competition (2023)	<ul style="list-style-type: none"> <li>- <b>First Prize</b> in Life Science: Yuan Dingdong, Chen Hongfei, and Li Biquan (PhD Students in Chemistry)</li> <li>- <b>First Prize</b> in Energy, Environmental &amp; Chemical Engineering: Jiang Zhuorun and Cheung Ka Man (PhD and Mphil Students in Chemistry)</li> <li>- <b>Second Prize</b> in Energy, Environmental &amp; Chemical Engineering: Liu Liang Dong (PhD Student in Chemistry)</li> </ul>
Huawei ICT Competition 2022-2023	- Champion: Zhang Wenyu (PhD Student in Statistics)
18 <sup>th</sup> "Challenge Cup" National Undergraduate Curricular Academic Science and Technology Works (2023)	- <b>Third Prize</b> : Chong Hio Lam (PhD Student in Chemistry)



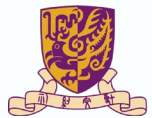
Liu Min and Wang Yue



Chen Hongfei and Yuan Dingdong





Zhang Wenyu



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 www.sci.cuhk.edu.hk



CUHK Science  
Empowering the Future

## Graduate Division Introduction

### Order of Presentation

Life Sciences	Prof. CHEUNG Chi Keung Peter
Chemistry	Prof. MIAO Qian
Mathematics	Prof. DUAN Renjun
Physics and Materials Science & Engineering	Prof. WU Yilin
Statistics and Risk Management Science	Prof. WEI Yingying
Earth & Environmental Sciences	Prof. ZHAN Yan