

Chinese University

# BULLETIN

No.2, 2021

## Greater Expectations

CUHK's vision and action  
in the Greater Bay Area





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CUHK's vision and action in  
the Greater Bay Area

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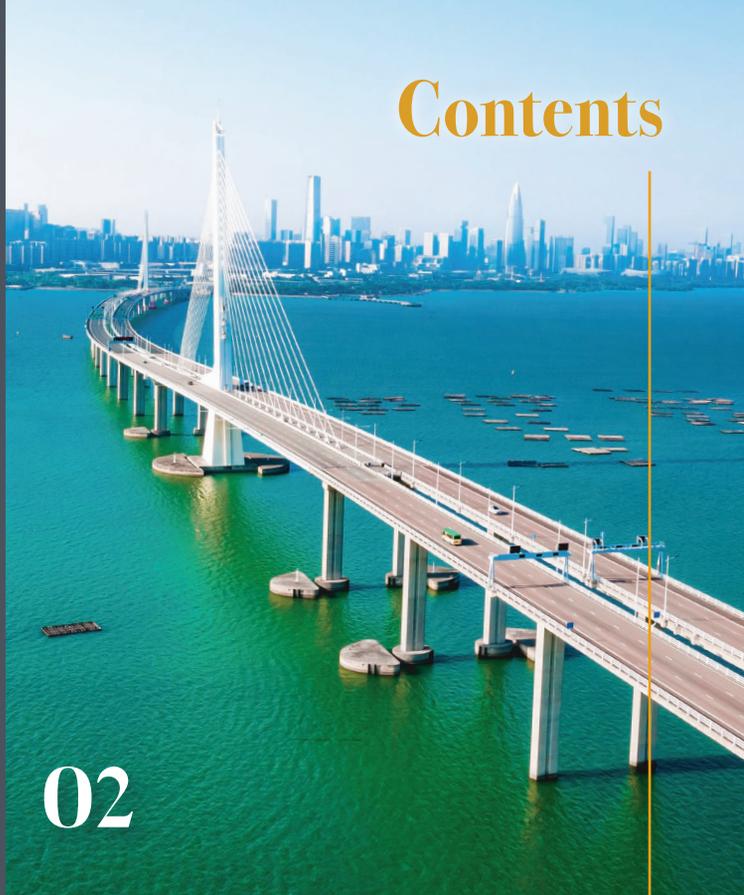
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2 special administrative regions



56,000km<sup>2</sup> of land

# Greater Expectations

CUHK's vision and action in the Greater Bay Area



**86 million**  
people



**9** mega  
cities

In recent years, the term ‘GBA’ has become a buzzword for an inviting concept: first mentioned in the Belt and Road Initiative in 2015 and later introduced as a national policy by the Central Government in 2017, the GBA aims at creating a unified area that is appealing to economic competitiveness and advanced innovations, along with establishing connections among the cities around the Pearl River Delta.



Geographically and demographically speaking, the Greater Bay Area is ‘great’ in its truest sense. By combining Hong Kong and Macau with the nine municipalities located in Guangdong Province, the GBA is the world’s largest and most populated bay area, pooling together an astronomical amount of RMB 11 trillion in GDP, which is one-seventh of China’s total economic output. With such economic significance and rich resources concentrated in this region, transforming the GBA into a world-leading business and technological hub is definitely more than just a fairy tale, or a pipe dream.

To this end, the Hong Kong SAR government, together with its counterparts in the GBA,

signed an *Outline Development Plan* in 2019, aspiring to enhance the leading role of the GBA and deepen cooperation among the Mainland, Hong Kong and Macao through a wide variety of parties, including businesses, industries, R&D offices and, most notably, higher education institutions.



# 粵港澳大灣區發展論壇



Dating back as early as 2006, CUHK became the first university in Hong Kong to establish a comprehensive presence in the GBA, successfully founding the Shenzhen Institute of Advanced Technology (SIAT) in collaboration with the Chinese Academy of Sciences. Since then, CUHK has continuously played a pivotal role in turbocharging the betterment of higher education in the Bay Area, ranging from building educational platforms and refining established infrastructure to signing an array of Memoranda of Understanding and collaboration agreements, achieving substantial results in basic research, talent cultivation, technological innovation and entrepreneurship, to name but a few accomplishments.

Harnessing its academic excellence and proven scientific research and development capabilities, CUHK has now yielded evidential rewards in its engagement in the GBA. It is, therefore, high time to share with everyone the fruits of our labour.

This issue of *Chinese University Bulletin* proudly presents to you the achievements and progress that CUHK has made in the GBA over the past 15 years. Through the stories of administrators, researchers and various members of the CUHK community, we will take you onto a journey to witness their tasks and travails, challenges and triumphs in this exciting and vibrant region.



*'The tree which fills the arms grew from  
the tiniest sprout.'*

—Lao Tzu, translated by James Legge

# Sowing the Seeds of Change

**B**efore becoming the megalopolis which everyone knows and is hyped about nowadays, the GBA was literally a ‘seed’ in every sense of the word. It was not until 2017, 11 years after CUHK had embraced the educational philosophy to expand northward and established a presence in Shenzhen, that the ‘Framework Agreement on Deepening Guangdong-Hong Kong-Macau Cooperation in the Development of the Bay Area’ was signed in Hong Kong, finally connecting the dots of the two special administrative regions and the nine cities in South China into a picture of the GBA.

To see the vast opportunities in something that was barely conceptualized, especially at a time before any clear directions or indications were given by the Central

Government, is definitely not an easy task. For an institution with the mission of giving the best education and opportunities to the next generations, taking the bold steps into the future and setting the stage for its members to roam and flourish is both a duty and its *raison d’être*.

CUHK timely and confidently accepted and rose to the challenges.

Joining us in this part of the *Bulletin* are Prof. **Rocky S. Tuan**, Vice-Chancellor and President of CUHK, Prof. **Alan Chan**, Provost, and Prof. **Chan Wai-ye**, Pro-Vice-Chancellor and Vice-President, who will provide a general overview on what CUHK has accomplished in the GBA, as well as sharing with us some of their stories and insights pertinent to their work in the GBA.

# The Vanguard of Education and Innovation

*Xianhe*—the Chinese expression for ‘trailblazing’—originated from the imperial worship rites of the Three Dynasties. Ancient royalty worshipped first the Yellow River, then the Great Ocean, for they believed the River was the origin of the Ocean.

*Xianhe*—which literally means ‘river first’—refers to the origin of things. Indeed, a trailblazer should first trace the roots of the traditional culture and be committed to its rich heritage while carrying out groundbreaking work to promote the progress of human civilization.

‘CUHK has held fast to the mission of “combining tradition with modernity, and bringing together China and the West” ever since its establishment,’ Prof. Rocky Tuan, Vice-Chancellor and President of CUHK, reminisced over the beginning of the University’s journey to the north at the Forum on Guangdong-Hong Kong-Macao Greater Bay Area (GBA) Developments and Output Showcase of The Chinese University of Hong Kong held in October 2021 commemorating the University’s 15-year presence in the GBA. ‘We take pride in the rich history and cultural heritage of our country and have faith in the great potential of its contemporary development. This fervent belief has motivated us to take the lead in integrating into national development.’



■ Prof. Rocky Tuan, Vice-Chancellor and President of CUHK



## The first mover in the field

Looking back at some of the most crucial documents that delineate the overall development of our country, the Central Government's *Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area* in 2019 affirmed the strategic positioning of the GBA as one of the most open and economically vibrant regions in China. The Central Government's *14th Five-Year Plan* further focused on nurturing and strengthening emerging industries, inspiring many to look forward to and seek out the opportunities that beckon in the realization of the GBA vision.

And, unquestionably, CUHK has secured its role as a forerunner on the road to the GBA.

'We have been adopting an "early and pilot implementation" approach to expanding the scope of our participation in the GBA,' Professor

Tuan said in his opening remarks at the GBA Forum, a hybrid event attended by senior government leaders, industry representatives and academia on both sides of the border. 'This is all because we have full confidence in the promising future of our country.'

For the past 16 years, CUHK has forged strong bonds with the GBA, creating cross-border collaborations that have grown both in depth and breadth over the years. In 2006, CUHK became Hong Kong's first university to establish a comprehensive presence in the GBA, with the founding of the Shenzhen Institute of Advanced Technology (SIAT) in collaboration with the Chinese Academy of Sciences. In 2007, the Shenzhen Research Institute (SZRI), the largest satellite research facility set up by a Hong Kong institution in Shenzhen, was established. Shortly afterwards, with the approval from the Ministry of Education, the Chinese University of Hong Kong, Shenzhen (CUHK(SZ)) was officially founded in 2014, carrying forward CUHK's fine education traditions across the border. In 2018, the SZRI's InnoHub was set up to support the education, knowledge transfer, entrepreneurship and innovation agenda of the GBA. Together with the establishment of the CUHK-Guangzhou Regenerative Medicine and Health Guangdong Laboratory Advanced Institute for Regenerative Medicine, the CUHK Hong Kong-Shenzhen Innovation and Technology Research Institute (Futian) and the Office for Greater Bay Area Developments, CUHK's determination to fulfil the ambitious national blueprint by nurturing talent for the betterment of our country speaks for itself.



## Staying ahead with ‘talents’

With the Central Government’s resolve to build the Bay Area as a world-class hub of modern technology, the GBA has been supplied with a huge amount of capital in areas of innovation and technology (I&T) and research and development (R&D), continually making impressive progress over the past few years. Along with these extensive investments come an indispensably high demand for I&T talent in order for the R&D projects to succeed.

‘Innovation is like a relay race. Even if the first leg of the race has gone well, the team requires the best baton pass to the next runner to make it to the finishing line. Now that our country has set very clear strategic goals for the GBA, we need talent to employ the right tactics to actualize them. This is where Hong Kong universities come in,’ said Professor Tuan at the 2021 Economic Summit Forum, a public event to discuss the future development of Hong Kong organized by the local online news portal HK01.

As revealed in the World Intellectual Property Organization’s Global Innovation Index in September 2021, Shenzhen-Hong Kong-Guangzhou had come second for two consecutive years among the world’s top

science and technology clusters. However, Guangdong, home to China’s largest provincial economy, is unable to meet the burgeoning demand for I&T talent alone, despite a recent increase in its gross tertiary enrolment ratio. Technological and industrial transformation in the GBA will only be possible if it produces enough highly skilled professionals and attracts sufficient research talent to give new impetus to its future economy.

On the other hand, with five out of its eight publicly-funded universities landing in the world’s top 100 universities, Hong Kong is an internationally renowned powerhouse of education, research and innovation and enjoys a unique edge. There is, therefore, huge potential to see local universities leverage their education and research capacities to drive the development of I&T in the GBA.

‘Talent is the inherent requirement for innovation. Local universities have been cultivating top-tier I&T talent for the GBA and setting up branch campuses and research institutes across the border. They are sure to enhance higher education resources and invigorate the basic and applied research ecosystem in the GBA,’ Professor Tuan said.

## Seizing opportunities with ‘plans’

In recent years, Hong Kong has been enjoying globally leading strengths in the innovative biomedicine sector. Since its reform of listing rules to allow pre-revenue biotechnology companies to raise capital in 2018, Hong Kong has become the world’s number two biotech funding hub. The city’s sophisticated medical research system, combined with a sound protection mechanism for intellectual property rights and international recognition of clinical data, bestows on it distinctive strengths that no other city in the GBA can rival.

The ability to seize opportunities and adjust its focus towards embracing global trends and challenges of the new era has paved the way for CUHK’s success. *CUHK 2025*, the latest Strategic Plan of CUHK, reflects the University’s commitment to research and



innovation, devoting resources to critical areas such as innovative biomedicine and information and automation technology, and fostering closer and more extensive partnerships with mainland and international collaborators.

‘*CUHK 2025* focuses on seven main areas, namely education, student experience, research and innovation, global engagement, talent attraction and development, alumni engagement and institutional advancement, and social responsibility and sustainable development,’ said Prof. Alan Chan, Provost of CUHK. ‘In each and every one of these areas, we try to identify opportunities in the mainland which would further the goals and ambition of CUHK. Collaborative research and study programmes with mainland institutions, including service learning and internships, for example, are already in place, and we have a large number of wonderfully supportive alumni in the mainland.’

With a view to further supporting students’ participation and giving graduates a unique edge in career prospects in the GBA, from 2022 to 2025, CUHK will launch several new integrated interdisciplinary programmes, including Computational Data Science; Biotechnology, Entrepreneurship and Healthcare Management; and Learning Design and Technology, and offer specially curated double major programmes by combining existing disciplines that complement each other.

‘The transformative development of the GBA is absolutely crucial to Hong Kong’s future growth and also to CUHK’s continued success,’ Professor Chan added. ‘Whether in terms of student experience, innovation, or career options for our graduates, the opportunities in the GBA are immense, and the University’s future development will see a stronger and expanded presence in the mainland.’



■ Prof. Alan Chan, Provost of CUHK





## Building bridges and taking challenges in stride

It has been a decade since CUHK has established a campus in Shenzhen and taken its educational philosophy northwards. Being a well-established comprehensive research university that has set foot in the GBA, CUHK is fully aware of the importance of establishing good connectivity across the border, continuously strengthening the ties between the campuses to elevate and bolster the University's presence towards the accomplishment of strategic goals.

Because of this, the Task Force on Collaboration between CUHK and CUHK(SZ), a collaboration platform that aims to promote alliance and coalition between the two campuses, was established.

'The Task Force was formed to deepen collaboration between CUHK and CUHK(SZ) particularly in four areas, namely education, research and innovation, new strategic initiatives, and administration,' said Professor Chan, also Co-Chairman of the Task Force. 'Some of the initiatives have already borne fruit, such as joint PhD supervision and a regular research seminar series. Unique to CUHK is our College system, and the Colleges have been organizing enriching co-curricular activities bringing our students together as well.'

'The pandemic may be throwing a spanner in the works, but there is no lack of enthusiasm on both sides to find synergies and optimize

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our respective strengths so as to propel CUHK and CUHK (SZ) to the forefront of the global knowledge arena, as a single brand with two campuses.’

Being at the forefront of GBA developments does not mean the path ahead is smooth and sleek, however. Professor Tuan admitted that there are, in fact, challenges and obstacles that the University should take note of.

‘First off, given the apparent differences in the legal and administrative systems and culture of the nine municipalities in Guangdong Province and two Special Administrative Regions that comprise the GBA, precise coordination between different places is essential to turn the vision of regional connectivity into a practical reality.’

Then there is also the uncertainty in the possible domination of the Bay Area by one single city, which has inevitably happened in other successful bay area economies around the world, like the Tokyo Bay Area with the city of Tokyo as the core and the New York Bay Area propelled mainly by New York City. Will regions in the GBA fight to be the leader?

‘We do expect competition between cities. But I believe such competition is healthy by nature because the Central Government has been emphasizing “complementarity and sharing of resources” when drawing the GBA road map,’ Professor Tuan explained. No one should walk alone on the road to great success; after all, as a Chinese sayings goes: you cannot clap with one hand only.

‘The government, industry, academic and research sectors should work closely together to convey promising and ground-breaking achievements. With the collective action of different regions, I am confident that there is a bright future for the GBA up ahead.’

## Forging a bright future

Looking back at what CUHK has achieved in the GBA so far, Professor Tuan said the increasing momentum of the participation of local institutions in the GBA was solid proof of our counterparts’ recognition of CUHK’s foresight and effort in spearheading education and innovation in the GBA.

‘We look forward to joining hands with administrative authorities, and education and business organizations in the mainland, to enhance the status of the GBA as a global hub for basic and applied research, and for innovation and entrepreneurship, in order to shape our country’s bright future together.’

Along its road to the GBA, CUHK has left solid and clear footprints one after another, taking every step towards realizing the dream of contributing to our country’s prosperity through knowledge and innovation and its ever improving future.



Prof. Chan Wai-ye  
Pro-Vice-Chancellor/  
Vice-President of CUHK

# It's All About That Very First Step

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‘Are you sure we don’t have to put off the interview till later, Professor Chan?’

Having just flown back to Hong Kong and settled down at one of the local hotels for procedural self-quarantine, Prof. Chan Wai-ye, Pro-Vice-Chancellor (PVC)/Vice-President of CUHK, immediately joined us for a ZOOM interview—a big smile plastered on his face without any trace of fatigue.

‘Don’t worry about it! It is nothing really,’ he chuckled. ‘Besides, there will be another event with CUHK-Shenzhen that I have to attend two hours later. Might as well get all GBA-related work done in one go. Am I right?’

## Baby steps to giant strides

When it comes to educational and administrative experience in the GBA region, Professor Chan is definitely someone who should not be trifled with: after founding CUHK’s School of Biomedical Sciences in 2009, Professor Chan began to expand the University’s connections across the mainland, successfully brokering contact with the Shenzhen Municipal Government and establishing the CUHK–BGI Innovation Institute of Transomics in 2011.

‘This could be regarded as one of my very first “GBA” endeavours, although, as you already know, the term wasn’t even coined until quite recently,’ he explained. ‘Scientific research was a pretty alien concept in South China at that time, yet there were huge resources which can complement the development of talents in the pertinent fields, especially those in clinical medicine.’

It is this realization—to capitalize on each other’s strengths for the betterment of scientific and academic research—that shaped and fermented his determination down the road. Since then, Professor Chan has actively reached out to other cities and areas in the Bay Area, setting up core labs for biomedical science in SZRI in 2013 and collaborating with Jinan University to establish the Key Laboratory of Regenerative Medicine in Guangzhou in 2016.

‘My role as PVC, overall, is to assist CUHK to implement development strategies in the GBA so as to achieve an array of targets, including seizing all available opportunities provided in the Bay Area, advocating advancements in areas of science and innovation, and establishing collaborations with top-notch institutions and universities.’

As such, Professor Chan has had to devise appropriate strategies in order to satisfy these goals. These plans fall under three main categories: subsidiaries, joint ventures and collaborative agencies.

## Subsidiaries

Strategies on opening up a 'separate branch' of CUHK in the GBA, such as the setting up of CUHK Hong Kong—Shenzhen Innovation and Technology Research Institute (Futian)



1

## Joint Ventures

Strategies on combining with other institutions in the GBA and China for further GBA developments



2

## Collaborative Agencies

Strategies on setting up joint and provincial labs for collaborative and academic purposes



3

Professor Chan's strategic vision can be glimpsed from the establishment of two offices under his supervision: the China Engagement Office (CEO) and the Office for Greater Bay Area Developments (GBAO).

'Despite being two different offices, CEO and GBAO usually work hand-in-hand, like two peas in a pod,' explained Professor Chan. 'In the military sense, CEO can be regarded as some sort of "special reconnaissance", a unit responsible for obtaining information and setting up all sorts of connections with institutions and governments in the GBA and in China.

'With bridges built and landscape ascertained, GBAO then comes into play—serving as "combat support", GBAO coordinates the implementations of the GBA development plans by establishing the aforementioned

subsidiaries, joint ventures and collaborative agencies, also assisting University members in areas of scientific research, talent cultivation, industry collaboration, transfer of technology, innovation and entrepreneurship in the GBA.'

## Be flexible and take the plunge

For the past 13 years, Professor Chan has witnessed an array of CUHK-GBA partnerships and collaborations coming to fruition. Seeing CUHK's petals blossom across the border is definitely a reward in itself, and to Professor Chan, this experience has taught

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him various valuable life lessons along the way.

‘It was definitely an eye-opening experience,’ he commented. ‘For one, the working style is actually pretty different between Hong Kong and the GBA; being able to “adapt” and be “flexible” has never been so important.’

He then gave us an example: on 28 October 2021, government officials, innovation and technology pioneers, academia and guests committed to national development from cities across the GBA were invited to attend the ‘Forum on Guangdong-Hong Kong-Macao Greater Bay Area Developments and Output Showcase of The Chinese University of Hong Kong’, an event where CUHK shared the fruits of its work in the GBA with a wide range of stakeholders.

There were, however, several hiccups he had encountered during the preparation of the forum.

‘About a week or so before the forum was held, we were told that there was a drastic change in the GBA government personnel, some of whom were guests who had been invited to give a speech during the day of the forum. We thus had to immediately contact the new incumbents and rearrange the rundown of the programme.

‘Contrary to the rather rigid and formal

working style in Hong Kong, anything can literally happen when you are working with somebody in the GBA, so you have to be adaptive and always expect the unexpected. You should also expect last-minute changes and need to be quick on your feet.’

Apart from being adaptive, Professor Chan also stressed that being open-minded and able to ‘alter the attitudes of the mind’ are of utmost importance.

‘I was once in charge of organizing a cross-border learning activity, bringing students from CUHK to pharmaceutical companies and research centres in Guangzhou and letting them try out their summer internships in the GBA.’ He admitted that some students who applied had had second thoughts on the activity. ‘Nevertheless, all these initial doubts or concerns were wiped away when they began to intern. Those who were lukewarm at the beginning even told me, after the internship, that they had a blast and would definitely go again if given the chance in the future.

‘As educators, we have to make opportunities for students to take their first steps and come out of their shells. Don’t be afraid to be the ones who take the initiative to make a change. With a word of encouragement, anyone can go the distance and travel far.’

*'With the flowers of spring come  
the fruits of autumn.'*

—'The Biography of Cui Yin',  
*The Book of the Later Han*



# A Tale of CUHK and the GBA

**M**ore than a decade before the Chinese government announced its blueprint for a megalopolis along its southern coastline in 2017, the University set foot in Shenzhen to co-found the Shenzhen Institutes of Advanced Technology, the first among local higher education institutions to establish a presence in what is fast becoming the nation's economic and innovation powerhouse. From research to education to entrepreneurship, the collaboration branches out, spawning three research institutes, a university, and an innovation hub that is home to 56 CUHK born-and-bred startups. The following timeline traces how the University has expanded its foothold in the region over the years.



Shenzhen Institute of Advanced Technology (SIAT)

2006

## Shenzhen Institute of Advanced Technology (SIAT)

Co-founded by the Chinese Academy of Sciences, the Shenzhen government and CUHK, the SIAT was established to strengthen the innovative capacity of the equipment manufacturing and service industries in the Guangdong-Hong Kong region, promote the development of emerging industries and help them to obtain their own intellectual property rights.

SIAT focuses on the multidisciplinary integration development of Information Technology and Biotechnology. It includes eight affiliated institutes (51 research centres), nine national innovation labs, 33 key labs and platforms at the provincial level and 63 key labs and platforms at the municipal level.

“*SIAT aspires to create an enabling scientific and cultural environment that is appealing to researchers, seeking to attract and cultivate first-class talents for collaborative innovation.*”



**Prof. Fan Jianping**  
President of Shenzhen Institute of Advanced Technology

2006

2011

2014

2018

2019

2020



Shenzhen Research Institute (SZRI)



## Research at SZRI



**2400+**  
Journal  
Articles



**500**  
Longitudinal  
Research  
Projects



**36**  
Patents



**11**  
Key Laboratories  
& Engineering  
Laboratories

**90**

Industry  
Collaborations

**7**

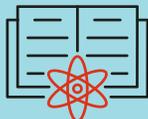
Software  
Copyrights

**84**

Pending  
Patents

**36million+**

Research  
Funding



**1900+**

SCI/EI/ISTP papers

## 2011

### Shenzhen Research Institute (SZRI)

A nine-storey building with a gross floor area of 25,000 square metres, the SZRI is situated in the Shenzhen Virtual University Park in Nanshan District, providing ample spaces and state-of-the-art facilities for its various projects and serving as a platform to collaborate with mainland corporations and for the promotion of technology transfer.

Playing an important role in education, research and industrialization in Shenzhen and in the GBA region, SZRI's works focus on a wide variety of areas, including agricultural product and food safety, biotechnology, Internet and information technology, economics and social subjects. Its training programmes in engineering, management and public health also help upgrade the human capital in Shenzhen and the region.

2014

## The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))

CUHK(SZ) is a comprehensive research university modelled on and seeking to deliver equivalent quality with the Shatin campus, committing to providing top-quality higher education that features an integration of East and West.

From offering three economics and management undergraduate programmes to 313 students at its inception, CUHK(SZ) has morphed into a full-fledged institution with six Schools encompassing management and economics, science and engineering, humanities and social science, data science, medicine and music, complete with a Graduate School. Twenty-two undergraduate and 25 postgraduate programmes are currently on offer.

From 2014, for six years in a row, CUHK(SZ) recorded the highest admissions score among Guangdong universities for its undergraduate programmes. CUHK(SZ) will continue to cultivate innovative talents with a global perspective, Chinese cultural traditions and social responsibilities.



“ *The establishment of CUHK (SZ) does not only represent a historical step in CUHK’s development in mainland China, but also promises to have a profound impact on the socio-economic advancement of Hong Kong and the Pearl River Delta region.* ”



**Prof. Xu Yangsheng**  
President of the Chinese University of Hong Kong, Shenzhen



*“The efforts of InnoHub in fostering regional company development are widely recognized by different levels of government. With the continued support of CUHK and InnoHub, I am confident that the startup teams at CUHK will have a bright future in the GBA.”*



Dr. Lin Huangquan  
Executive Director of SZRI

## 2018

### Entrepreneurship and Innovation Hub (InnoHub) of SZRI

As an extension of SZRI, the InnoHub is the first startup incubation platform established by CUHK in Shenzhen, offering guidance and connecting CUHK members with governmental, resource and investment agencies.

Home to 56 CUHK startups spanning AI, robotics, Internet, STEAM (science, technology, engineering, arts and mathematics) education and biomedicine, InnoHub has developed a unique startup advisory service which assists teachers and students at CUHK to start a business in Hong Kong and Shenzhen. It houses four national high-tech enterprises and eight tech-based small and medium-sized enterprises at present.

Some of the teams at InnoHub





“ Given the rapid development of CUHK in GBA, it is necessary to strengthen various institutions’ connections in an all-round manner. The Office for Greater Bay Area Developments can coordinate and handle tasks such as licences, recruitment, and even legal matters. All these remove the barriers and help our teachers, students and alumni to start their own businesses and innovate in GBA. ”



**Prof. Chan Wai-yee**  
Pro-Vice-Chancellor (Strategic Developments) of CUHK

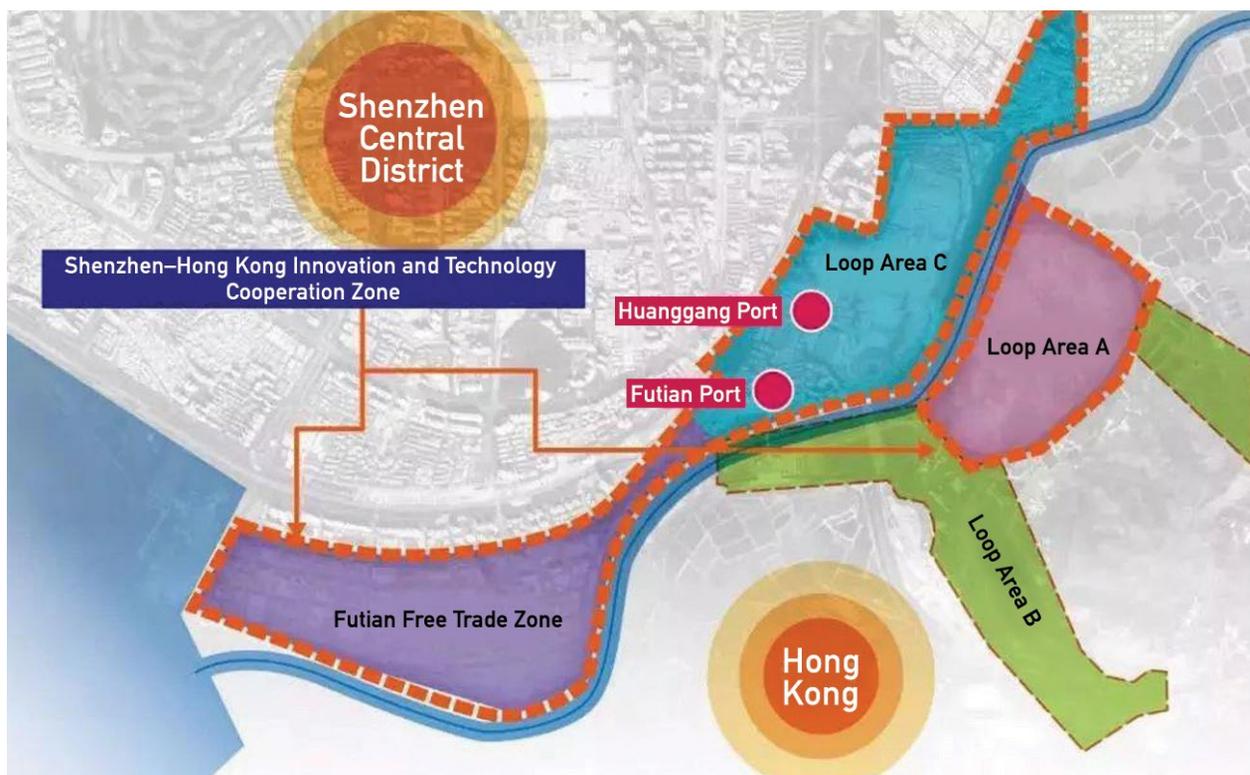


## 2019

### CUHK–Guangzhou Regenerative Medicine and Health Guangdong Laboratory (GDL) Advanced Institute for Regenerative Medicine

A Memorandum of Understanding was signed between CUHK and Guangzhou Regenerative Medicine and Health Guangdong Laboratory to establish the CUHK-GDL Advanced Institute for Regenerative Medicine, a facility and platform which aims to build a research team with world-class expertise in stem cell research and regenerative medicine.

The CUHK-GDL Advanced Institute for Regenerative Medicine also serves to train and educate the next generation of talents in various focused areas including stem cells, regenerative medicine, tissue engineering, tissue and organ rebuilding, precision medicine and clinical research, through joint supervision of PhD students.



■ Shenzhen-Hong Kong Innovation and Technology Cooperation Zone

2020

## CUHK Hong Kong-Shenzhen Innovation and Technology Research Institute (Futian)

Located in the Shenzhen Futian Free Trade Zone and adjacent to Lok Ma Chau in Hong Kong, the CUHK Hong Kong-Shenzhen Innovation and Technology Research Institute (Futian) aims to build a world-class research institution focusing on robotics, artificial intelligence and medical fields.

Leveraging on Hong Kong's advantages in basic scientific research and Shenzhen's industrial and market landscape, the Institute strives to promote the development of intelligent medical and public health services in GBA regions.



## 2020

### Office for Greater Bay Area Developments, CUHK

Being the first office set up by a local university that is solely dedicated to higher education development in the GBA, the Office for Greater Bay Area Developments, CUHK helps the university management stay attuned to the opportunities of the region and assists in CUHK members' research and entrepreneurial efforts in China. The Office also serves as a central platform to coordinate talents and financial resources between Hong Kong and the bay areas.

*'One plus one is far greater than two.'*

—Prof. Lawrence Lau, former Vice-Chancellor of CUHK



# The Forest of Trees Never Ends

In 15 years' time, CUHK has wholeheartedly poured every ounce of effort into creating the forest of trees in the GBA which future generations can roam and enjoy. We see batches of graduates relocate from our campus to Longgang District, Shenzhen, incubate dozens and dozens of start-up companies and help entrepreneurs pursue their dreams, and provide bountiful resources to support cross-border research across a wide variety of scholastic fields. With an assortment of cooperation agreements and facility blueprints scheduled to be

signed and endorsed, CUHK is ready for the next phase to promote research and education across the GBA.

*'It takes ten years to grow a tree, yet it takes a hundred years to nurture a person.'* As a university, it is CUHK's mission to shape the future of education through knowledge, wisdom, culture and experience. Through our engagement and developments in the GBA, we firmly believe that everyone at CUHK can become a better self and, ultimately, embrace their future with fervour and confidence.

# Critical Mass of Brilliance— CUHK Projects in the GBA



## MEDICINE

Chinese Medicine Research and  
Further Development

**Prof. Leung Ping-chung**

Anti-aging Effects of GLP-1R Agonism and  
Companion Non-invasive Diagnostics

**Dr. Owen Ko**

Research on Mechanism of Organ Fibrosis

**Prof. Lan Hui-yao**

Aging, Skeletal Degeneration and Regeneration

**Prof. Qin Ling**

The Study of Human Genomic Structural Variations  
and its Pathogenic Mechanism in Birth Defects

**Prof. Richard Choy**

Research and Development of Key  
Technologies for Functional Repair of  
Engineered Articular Cartilage Tissue

**Prof. Wan Chao**



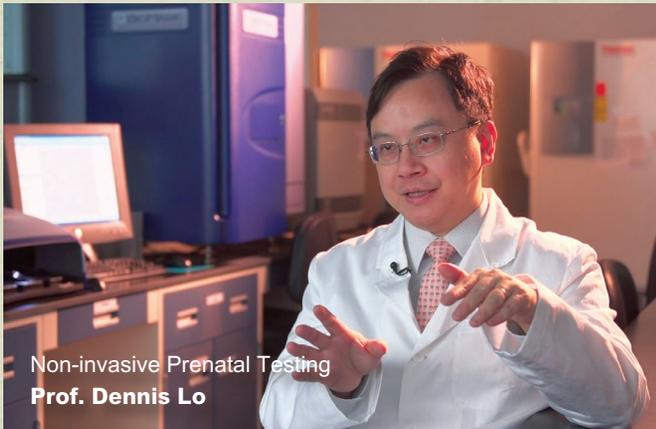
## ENGINEERING

Network Coding Research  
**Prof. Raymond Yeung**

Ultra-high Precision 3D Two-photon  
Printing and Metal Printing  
**Prof. Chen Shih-chi**



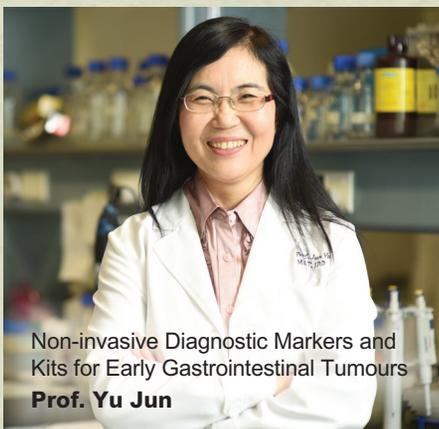
Semiconductor Laser-based  
Trace Gas Sensor  
**Prof. Ren Wei**



Non-invasive Prenatal Testing  
**Prof. Dennis Lo**



Inflammatory Bowel Disease Research  
**Prof. Ng Siew-chien**



Non-invasive Diagnostic Markers and  
Kits for Early Gastrointestinal Tumours  
**Prof. Yu Jun**



Lung Cancer Research and Clinical Breakthrough  
**Prof. Tony Mok**



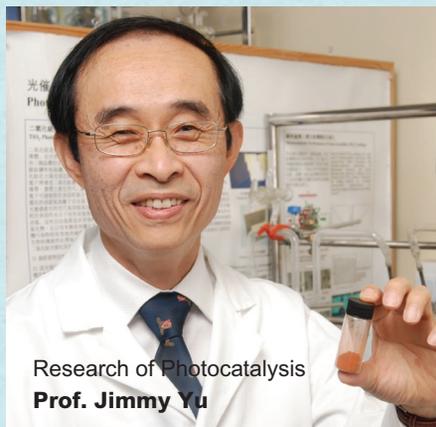
## CHEMISTRY

Syntheses and Studies of Natural  
and Non-natural Molecules

**Prof. Henry Wong**

Controlled Functionalisation of Carboranes

**Prof. Xie Zuwei**



Research of Photocatalysis  
**Prof. Jimmy Yu**



## ROBOTICS & AI

Energy Harvesters for Smart  
Watches and Wristbands

**Prof. Liao Wei-hsin**

Vision-based Intelligent Forklift AGV System

**Prof. Liu Yunhui**



Innovations in Medical Robotics  
**Prof. Philip Chiu**



AI for Cognitive Health  
**Prof. Helen Meng**



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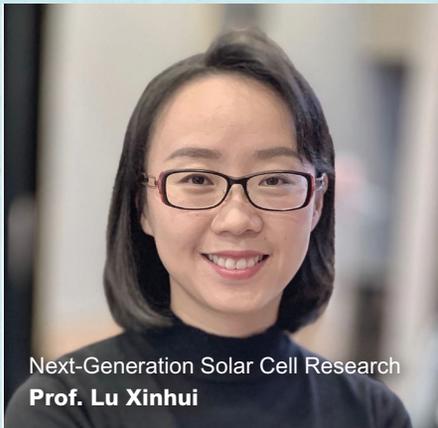
## GEOGRAPHY & THE CITY

Modelling and Simulating Regional  
Migration Systems

**Prof. Shen Jianfa**

Unified Full-property Satellite Image Fusion

**Prof. Huang Bo**



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## PHYSICS

Spatial-temporal Order in Bacterial Systems

**Prof. Wu Yilin**



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## BIOLOGY

Organelle Biogenesis and Function

**Prof. Jiang Liwen**





# Appointments

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## Council Chairman and Members



Prof. John Chai Yat-chiu



Prof. Ho Che-wah



Prof. Xie Zuowei

		Name	Period
New	Chairman	Prof. John Chai Yat-chiu	1.5.2022—30.4.2025
	Member	Prof. Ho Che-wah	5.9.2021—4.9.2024
		Prof. Xie Zuowei	until 31.8.2024
		Prof. John Chai Yat-chiu	27.11.2021—26.11.2024
Re-appointed	Member	Dr. Raymond P.L. Kwok	24.10.2021—23.10.2024
		Dr. Chien Lee	16.12.2021—15.12.2024
		Dr. Ho Tzu-leung	21.1.2022—20.1.2025
		Mr. Simon K.C. Lee	16.3.2022—15.3.2025
		The Honourable Cheung Yu-yan	21.3.2022—20.3.2025
		The Honourable Lau Kwok-fan	21.3.2022—20.3.2025
		The Honourable Mak Mei-kuen	21.3.2022—20.3.2025
		Prof. Shaw Pang-chui	23.4.2022—22.4.2025

## University Officers and Senior Staff



Mr. Laurie Pearcey



Prof. Ko Wing-hung

New	Name	Period
Associate Vice-President (External Engagement and Outreach)	Mr. Laurie Pearcey	20.9.2021—19.9.2024
University Dean of Students	Prof. Ko Wing-hung	1.6.2022—31.7.2025

Re-appointed	Name	Period
Associate Vice-President (Innovation and Enterprise)	Prof. Daniel Lee Hong-seng	27.5.2022—26.5.2025

# Emeritus Professors

1.9.2021



Prof. Paul B. McGuinness  
Department of Finance

28.9.2021



Prof. Huang Yu  
School of Biomedical Sciences

12.11.2021



Prof. Joseph Fan Po-hung  
School of Accountancy and  
Department of Finance

1.4.2022



Prof. Janita Chau Pak-chun  
The Nethersole School of Nursing







香港中文大學  
The Chinese University of Hong Kong