



# **Internationalisation and diversity**



THE most international university in the world (2022) WORLD





40%

of academic staff members are from overseas



research students from over 13 countries

A global network where intellectual minds meet





Research Assessment Exercise (RAE) 2020 by the University Grants Committee (UGC) affirmed

# HKU Science's world-leading research position

HKU Science's performance in the latest Research Assessment Exercise (RAE) 2020 by the University Grants Committee (UGC) was very encouraging. Among the five Units of Assessment (UoA) to which HKU Science submitted, under the Panels of Physical Sciences and Biology, we outperformed other local universities and achieved the highest percentage of 4\* ratings in three UoAs including Chemistry, Earth Sciences and other Physical Sciences, and Mathematics and Statistics, affirming our world-leading position in the aforementioned fields. Overall, 83% of the research submissions by HKU Science's 118 eligible staff was rated as world-leading (4\*) or internationally excellent (3\*).

> Percentage judged to be "world-leading" (4\*) and "internationally excellent" (3\*)

	one internationally excellent (2)	
Unit of Assessment (UoA)	HKU Science	Sector-wide average
Chemistry	<b>99%</b> (Highest in 4* in the UoA)	92%
Physics & Astronomy	95%	91%
Earth Sciences & Other Physical Sciences	<b>85%</b> (Highest in 4* in the UoA)	77%
Mathematics & Statistics	<b>82%</b> (Highest in 4* in the UoA)	77%
Biological Sciences	62%	61%



**Top-notch Scholars** 

of professorial staff are the world's Top 1% scholars (Clarivate Analytics' Essential Science Indicators 2021)

### Research Eminence

Areas of Excellence (AoE) projects



HKU-CAS Joint Laboratories



State Key Laboratory in Synthetic Chemistry

- Excellence in basic research, aiming high in applied and strategic research
  - Most supportive of interdisciplinary research

## **Well-established Faculty**

> 80
years of science
education history

**~ 150** professoriate staff

> 2,700 undergraduate students

~ 600 research postgraduate students

> 700
taught
postgraduate
students

> 27,000 alumni

### **Extensive Collaborations with World-class Universities**

### **Cutting-edge Research Facilities**

### **Robust Funding**

Projected funding of **HK\$807 million** for the following InnoHK projects:

#### Health@InnoHK programme

# The Laboratory for Synthetic Chemistry and Chemical Biology

 aims to produce innovative, high-impact and leading-edge interdisciplinary research in the area of drug discovery and development

### AIR@InnoHK programme

#### The Hong Kong Quantum AI Lab

 multi-disciplinary programme which combines big data/ machine learning, computational science and experiments to discover new energy materials and devices

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# **HKU Presidential PhD Scholar Programme**

(HKU-PS) As a part of the HKU Presidential PhD Scholar Programme, a prestigious scholarship package, namely the HKU Presidential PhD Scholarship in Management (1997). candidates from around the world to pursue full-time PhD studies at HKU.

> The HKU Presidential PhD Scholars will receive strong academic and training support from the University, e.g. individualised advisory service, training in teaching, chances to rotate among different research labs/disciplines, and more opportunities to interact with leading scholars. A group of distinguished Faculty members will also give advice, provide additional mentorship and training opportunities, and oversee the academic career paths.

# **Hong Kong PhD Fellowship** Scheme (HKPF)

Established in 2009 by the Research Grants Council (RGC), the Hong Kong PhD Fellowship (HKPF) Scheme aims at attracting the best and brightest students in the world to pursue their PhD studies in Hong Kong's universities.

Those who are seeking admission as new full-time PhD students in Hong Kong universities funded by the University Grants Committee (UGC), irrespective of their country of origin, prior work experience and ethnic background, should be eligible to apply. Applicants should demonstrate outstanding qualities of academic performance, research ability / potential, communication and interpersonal skills, and leadership abilities.

In HKU, the package of recipients of HKPF will be automatically upgraded to an HKU-PS one.

# Stipend and support

for the most talented research elites

A generous package for recipients of:

**HKU Presidential PhD Scholar Programme (HKU-PS)** 

Hong Kong PhD Fellowship Scheme (HKPF)\*

- Applicable to: selected full-time PhD entrants
- Funding value: up to HK\$1.6M



• \*The package for recipients of HKPF will be automatically

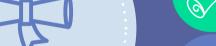
#### **Cash Award to support research** & living expenses

HK\$40,000 in Year 1; HK\$20,000/year for the remaining normative study period

**Conference & Research-related Travel Allowance** 







**Each HKU Presidential** PhD Scholar receives:



Postgraduate Scholarship (PGS)

#### **Waiver of Tuition Fees**

for the whole normative study period (i.e. HK\$42,100/year)





#### **Guaranteed Accommodation in Year 1**

Additional support from HKU Science The Faculty's Doctoral Entrance Award of HK\$15.000 in Year 1



### For non HKU-PS / non-HKPF Research Postgraduate (RPg) students

#### Postgraduate Scholarship (PGS)

-Applicable to: full-time MPhil and PhD applicants -Funding value: HK\$18,030/month or HK\$18,520/month#

**Tuition Waiver Scheme** (for local RPq students)

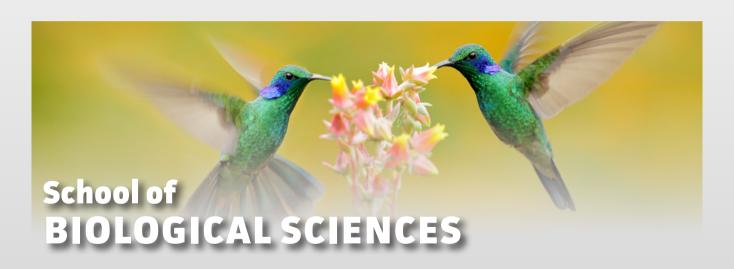
#for PhD students whose candidatures have been confirmed

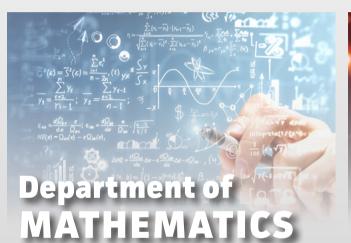
# **6 Science Departments/School**

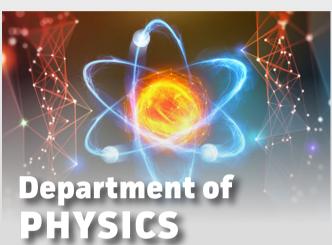












# 5 Interdisciplinary research units



HKU-TCL Joint
Research Centre for
Artificial Intelligence

Institute of Mathematical Research (IMR)

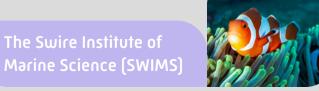


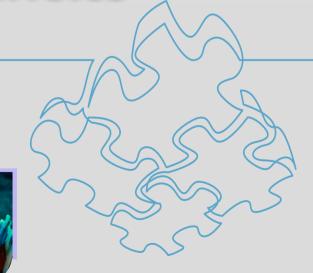
HKU-UCAS Joint Institute Theoretical and Computational Physics at Hong Kong





Laboratory for Space Research (LSR)





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# Programmes @HKU



### Master of Philosophy (MPhil)

Degree	Study period	
MPhil	Full-time	2 years

Candidates for MPhil degree will be required to follow an approved course of study and research, including coursework on discipline-specific knowledge, language and research skills. The coursework component is well designed to equip students for their research work and thesis writing.

### Doctor of Philosophy (PhD)

Degree	Study period	
3-year PhD*	Full-time	3 years
4-year PhD#	Full-time	4 years

\* Those who already hold a research Master's degree (e.g. MPhil) will only be considered for admission to a 3-year PhD programme. # Applicants who have a good Bachelor's degree with honours and/or a taught Master's degree will be considered for admission to a 4-year PhD programme.

Candidates for 4-year PhD programme will be required to follow an approved course of study and research, including coursework on discipline-specific knowledge, language and research skills. The coursework component is well designed to equip students for their research work and thesis writing.

Candidates for 3-year PhD programme may also be required to take courses and satisfy coursework requirements.

# **Joint PhD Programme**

#### King's College London

#### **Programme features**



Students admitted to the joint PhD programme will:

- be registered as full-time students at both universities and be able to enjoy their full range of academic and various facilities;
- be guided in their work by faculty members from both universities, and be examined to the standards of both;
- normally split their time of study equally between the two universities and spend the last six months of study
  in the home university; and
- be conferred a PhD degree jointly awarded by HKU & KCL.

# **Joint Educational Placement for PhD**

In order to foster stronger collaboration with international institutions and allow PhD students to learn and work with renowned international scholars, the Faculty of Science has offered Joint Educational Placement programmes for our PhD students with the following institutions:

- 1. University of Toronto
- 2. Sapienza Università di Roma and McMaster University
- 3. Northeastern University







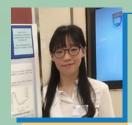
#### Programme features

Students admitted under the joint educational placement programme will:

- have to choose a home/lead institution and a host institution and have to meet the admissions requirements
  of both institutions;
- have to pay tuition fees to the home/lead institution only and are entitled to apply for scholarships at the home/lead institution;
- be co-supervised by Faculty members from both institutions, and be examined to the standards of both;
- have the same access to facilities at both institutions;
- spend 6 24 months at the host institution upon mutual agreement of the two supervisors; and
- be conferred a degree awarded by the home/lead institution.

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# **Hear from our students**



Christina NG

Fellow of Hong Kong PhD Fellowship Scheme

PhD student and BSc graduate

Research foci: The development of new catalysts for the efficient labeling of a

variety of biomolecules

Supervisor: Professor Chi-Ming CHE, Department of Chemistry

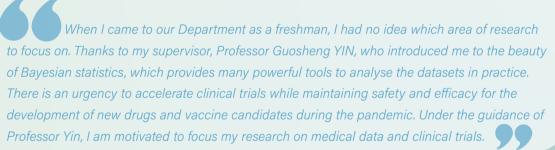


During my PhD studies, my supervisor and the Faculty of Science have provided me with lots of support and guidance. The facilities and instruments in the laboratories are new and well-maintained. Besides, the courses provided by the Graduate School also help to prepare me for my PhD training. They help to build confidence in both my presentation and writing skills. Overall, I would say that studying PhD in Science at HKU is indeed an invaluable experience to me.

#### **Huaging JIN**

Fellow of Hong Kong PhD Fellowship Scheme and HKU Presidential PhD Scholarship

Research foci: Biostatistics, focusing on analysing of the medical data and clinical trials Supervisor: Professor Guosheng YIN, Department of Statistics & Actuarial Science





### Bovern Suchart ARROMRAK

PhD student

Research foci: Marine environmental research – understanding eco-evolutionary dynamics of

microbial organisms in changing environments

Supervisor: Dr Juan Diego GAITÁN-ESPITIA, School of Biological Sciences



The most attractive pull factor for me to do science at HKU is the abundant academic and personal development opportunities. You get to learn from the best minds here, who always encourage and motivate us to strive to the top. All these elevate my expertise to the next level and bring me to be a better scientist.

#### Yanran LI

Fellow of University Postgraduate Fellowship

Research foci: Pathoadaptation mechanisms of nosocomial pathogen

Pseudomonas aeruginosa

Supervisor: Professor Aixin YAN, School of Biological Sciences

With the dynamic and welcoming vibe at HKU Science, I have always aspired to make breakthroughs in cutting edge science and was privileged to be exposed to the stateof-the-art technology. The Faculty stresses on the well-being and overall development of fellow students and is making every effort to help us thrive and fulfil our ambitions.







Juniong LYU

Fellow of Hong Kong PhD Fellowship Scheme PhD student

Research foci: Numerical methods for Stochastic Differential Equations

Supervisor: Dr Zhiwen ZHANG, Department of Mathematics

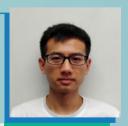


As a research postgraduate in HKU, my life is fulfilling here as the environment and professors here greatly facilitate my research in computational mathematics. I frequently exchange ideas and discuss with senior colleagues, and my supervisor Dr Zhiwen Zhang gives me not only precious suggestions on research but also opportunities to expand my networks via external conferences.

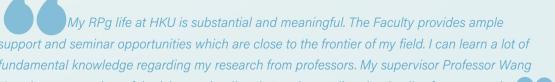


Fellow of Hong Kong PhD Fellowship Scheme

Research foci: Electronic and optical property of 2D materials Supervisor: Professor Wang YAO, Department of Physics



My RPg life at HKU is substantial and meaningful. The Faculty provides ample support and seminar opportunities which are close to the frontier of my field. I can learn a lot of fundamental knowledge regarding my research from professors. My supervisor Professor Wang Yao gives me much useful advice on the direction and regarding the details of my research.



# **General admissions requirements**

The basic qualification necessary for admission to research postgraduate studies:



#### MPhil:

#### PhD:

- a Bachelor's degree with honours and a Master's degree (or equivalent

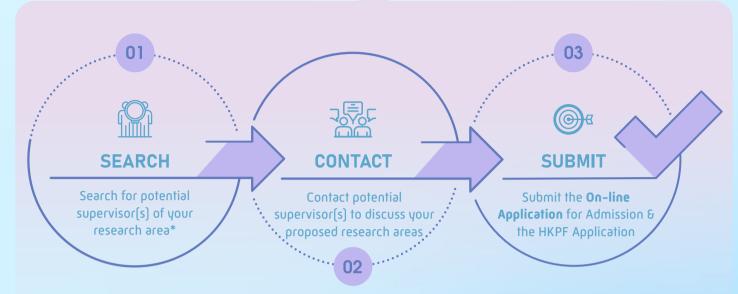


applicants with qualifications other than an honours degree are considered on their individual merits.



applicants who apply with a qualification from a university or a comparable institution whose teaching medium is not English are required to fulfill additional

# How to apply?



\*For details of major research areas, contact persons and postgraduate admissions advisors in each department/school, please visit:



# **Tuition fees**

Study mode	Tuition fees (per annum)
Full-time (non-local)	HK\$42,100*

\*subject to revision

# **Important Dates for Application**

### Hong Kong PhD Fellowship (HKPF) Scheme

Initial Application to RGC & Full Application to HKU

### **HKU Presidential PhD Scholar Programme** (HKU-PS)

Candidates who are nominated for HKPF Scheme will be considered for HKU-PS. Separate application for HKU-PS is not required.

#### **Main Round**

DEC

### 1st Clearing Round

Application deadline for MPhil & PhD

### 2<sup>nd</sup> Clearing Round

Application deadline for MPhil & PhD







AUG

