

RESEARCH POSTGRADUATE STUDIES

@PolyU FCMS

*Empower Future Innovators
in the Era of AI and Digital
Transformation*

WHY POLYU & FCMS?



QS World University
Rankings 2027

50th [10th in Asia]

QS World University Rankings
by Subject 2026

40th in "Statistics and
Operational Research"

51st - 100th

in "Data Science and
Artificial Intelligence"

68th in "Mathematics"

70th in "Computer Science and
Information Systems"



World
University
Rankings 2026

THE World University
Rankings 2026

80th [18th in Asia]

THE World University Rankings
by Subject 2026

70th
in "Computer Science"



U.S. News & World Report's
Best Global Universities
Rankings 2026-2027

52nd [11th in Asia]

Best Global Universities
Rankings by Subject 2026-2027

23rd
in "Computer Science"

23rd
in "Artificial Intelligence"

37th
in "Mathematics"

Research Impact

THE World University Rankings 2026

Research Environment - Score 55.4 out of 60

Research Quality - Score 91.8 out of 100

World Renowned Scholars

38 of the professoriate staff under FCMS
departments are classified as the World's Top 2%
Most-Cited Scientists 2025 by Stanford University

Expertise in Computing, Mathematics, Data Science and Artificial Intelligence

Comprising three departments with complementary strengths, the Faculty of Computer and Mathematical Sciences (FCMS) aims to excel globally in digital transformation and AI through high-quality education, impactful research, and knowledge transfer.

Department of Applied Mathematics (AMA)



DEPARTMENT OF APPLIED MATHEMATICS
應用數學系

Department of Computing (COMP)



Department of Computing
電子計算學系

Department of Data Science and Artificial Intelligence (DSAI)



Department of Data Science and Artificial Intelligence
數據科學及人工智能學系



Research Facilities



National Research Lab



CAS AMSS-PolyU
Joint Laboratory
of Applied Mathematics



University-level Research Centres and Facilities

PolyU Kunpeng Ascend Science and Education Innovation Incubation Centre
香港理工大學 鯤鵬昇騰科教創新孵化中心



Research Centre for Data Science & Artificial Intelligence
人工智能與數據科學研究中心



THE RESEARCH CENTRE FOR
BLOCKCHAIN TECHNOLOGY



RESEARCH CENTRE FOR
Quantitative Finance



UCAIC
— 人工智能計算中心 —
UNIVERSITY CENTRE FOR AI COMPUTING



Other Research Centres

Biometrics Research and Innovation Centre

Centre for Large AI Models

Internet and Mobile Computing Lab

FinTech and Cyber Security Lab

Collaborative Generative AI (Co-GenAI) Research Centre



CITIC - PolyU Interdisciplinary Mathematical Digital AI Joint Laboratory

Research Centre for Intelligent Operations Research



The PolyU-SBU Joint Interdisciplinary Research Center on Applied Mathematics and FinTech

RESEARCH CENTRE FOR Nonlinear Analysis



Research Centre for Mathematical Foundations of Generative AI

POLYU - HUAWEI MATHEMATICAL OPTIMIZATION INNOVATION LABORATORY

PIONEERING RESEARCH GROUPS AND DISTINGUISHED EXPERTISE

FCMS

AMA

- Computational Mathematics & Scientific Engineering
- Differential Equations
- Financial Mathematics
- Optimization & Management Science
- Statistics

DSAI

- Machine Learning
- Biometrics & Human Language Processing
- Computer Vision & Graphics
- Data Technologies & Governance
- Statistical Learning & Optimization Methods
- AI + X (Science, Healthcare, Neuroscience, etc.)

COMP

- Artificial Intelligence & Robotics
- Cyber Security & Privacy
- Data Science, Information Retrieval & Human Computer Interaction
- Fundamentals & Software
- Networking & Mobile Computing
- Vision, Language & Graphics

FCMS Scholars Ranked the World's Top 2% Most-cited Scientists 2025 by Stanford University



Prof. CAO Jiannong



Prof. CHEN Changwen



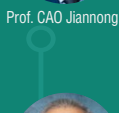
Prof. LI Qing



Prof. SUN Defeng



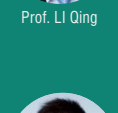
Prof. TAN Kay Chen



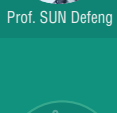
Prof. CHEN Xiaojun



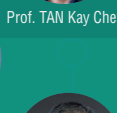
Prof. YANG Hongxia



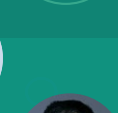
Prof. QIAO Zhonghua



Prof. YANG Qiang



Prof. YANG Tong



Prof. ZHANG Chengqi



Prof. ZHANG Weixiong



Prof. HUANG Jian



Prof. HE Daihai



Prof. LUO Xiapu Daniel



Prof. ZHANG Lei John



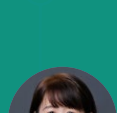
Prof. QI Liqun



Prof. WANG Zhian



Prof. LI Buyang



Prof. XIAO Bin



Prof. AU Man Ho Allen



Prof. LIN Yanping



Prof. KUMAR Ajay



Prof. ZHENG Yuanqing



Prof. CHENG Ran



Prof. LI Wenjie Maggie



Prof. LIU Yan Fiona



Prof. YANG Xiaoqi



Prof. WU Xiao Ming



Prof. FAN Wenqi



Prof. CHUNG Fu Lai Korris



Prof. LEE Heung Wing Joseph



Prof. WU Yujie



Prof. YANG Bo



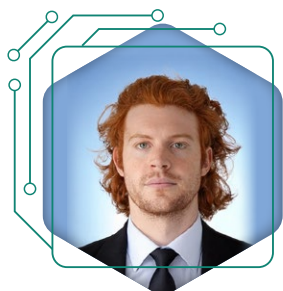
Prof. ZHOU Kai



Prof. HUANG Xiao

Students

STUDENT VOICES

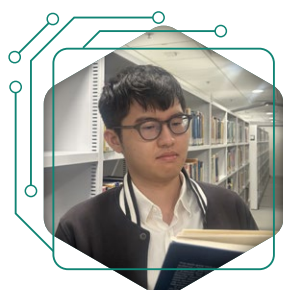


“PolyU has been an excellent place to pursue my dream of academic research. The University offers strong research support and a vibrant academic community that has broadened my scientific perspective and helped me obtain my first encouraging results. Beyond research, PolyU has greatly contributed to my personal and social growth. Through academic, sports, and social activities, I have met inspiring people and built meaningful connections. To prospective students, I would encourage you to embrace curiosity, perseverance and openness to collaboration, PolyU is a place where you can develop your abilities, contribute to knowledge and society, and grow as an independent and passionate researcher.”

Lorenzo BIASIOLO (Recipient of HKPFS | PhD student | DSAI)

“I chose the RPg programme at PolyU because of its strong emphasis on interdisciplinary research. With the support of the Hong Kong PhD Fellowship Scheme (HKPFS), I can fully dedicate myself to developing deep learning frameworks such as scKAN and generative models for antibody design. PolyU has provided excellent resources, guidance, and a stimulating research environment, enabling me to publish in leading journals and build a solid foundation for independent research. To prospective students, I would encourage you to consider PolyU if you are looking for a supportive, research-driven environment where you can focus, grow, and make meaningful contributions.”

HE Haohuai (Recipient of HKPFS | PhD student | DSAI)



“I hold both a Bachelor's degree and an MPhil from PolyU, and I am now a PhD student in statistics, focusing on survival analysis, missing data analysis, and high-dimensional statistics. Choosing PolyU for my doctoral studies was a natural decision, as it offers excellent teaching, access to a wide range of academic resources, strong computing facilities, and supportive supervision. PolyU provides a stimulating environment to face research challenges, make breakthroughs, and grow as an independent researcher.”

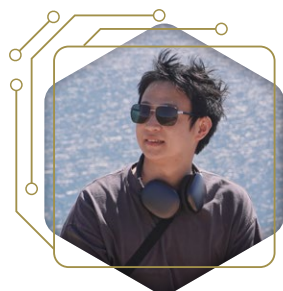
KWOK Ngok Sang (PhD student | AMA)

“My passion for bridging AI with mobile systems inspired me to pursue a PhD in Networking and Mobile Computing at PolyU. Under the supervision of Prof. Yuanqing Zheng, PolyU has provided an ideal, collaborative environment to explore my interests in LLMs, Embodied AI, and AIoT. With strong research support and international opportunities, I published in top conferences and undertook a visiting PhD at University College London. PolyU has fully equipped me for a successful research career in mobile computing.”

SHEN Leming (PhD student | COMP)



Graduates

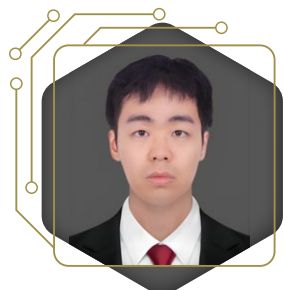
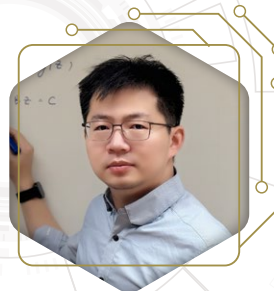


“After my master's degree, I wanted to explore machine learning more deeply, so I chose PolyU's RPg programme because Prof. Xiao-Ming Wu's research aligns closely with my interests. Her hands-on and thoughtful mentorship, together with strong funding from the University, Faculty, and my supervisor, enabled me to attend international conferences and complete a six-month research visit. The rigorous guidance, supportive environment, and freedom to explore at PolyU have built a solid foundation for my current postdoctoral research.”

Dr. LIU Qijiong (PhD graduate | COMP)

“In 2020, amid the pandemic, travel and visa restrictions disrupted my original plan to pursue doctoral study in the United States. PolyU and Prof. Defeng Sun provided me with flexible and timely support to continue my PhD journey. I will always be grateful for this opportunity and the support I received at such a critical moment. My training at PolyU has equipped me to tackle challenging problems, communicate research effectively, and deliver work that balances mathematical rigor with real-world impact. This experience has laid a strong foundation for me to make meaningful, practical contributions to algorithmic research in the future.”

Dr. ZHANG Guojun (PhD graduate | AMA)



“My decision to pursue an RPg programme at The Hong Kong Polytechnic University was driven by my interest in wireless technologies that impact everyday life. PolyU's vibrant research environment in mobile computing and strong industry collaborations made it an ideal place to explore ambitious ideas at the intersection of AI and wireless systems. With close mentorship and an excellent research group, I published in top venues and received best paper awards, which helped pave the way to my current role at Huawei's Theory Lab.”

Dr. ZHAO Xiaopeng (Recipient of PhD Thesis Award 2025 | PhD graduate | COMP)

PROGRAMME INFORMATION



UNLOCK YOUR POTENTIAL

PRESTIGIOUS PHD SCHOLARSHIPS *For full-time students only

Hong Kong PhD Fellowship Scheme (HKPFS)

The most recognised PhD scholarship offered by the Government of Hong Kong. Provides full funding for exceptional candidates pursuing PhD studies in Hong Kong.

Application Deadline: 1 December 2026

Total Package Up to
(for the entire normal study period)
HK\$1.72M (~US\$220,500)

PolyU Presidential PhD Fellowship Scheme (PPFS)

A highly prestigious and competitive scholarship designed for top candidates from around the world with exceptional academic and research achievements. Offers a package comparable to the esteemed HKPFS.

Total Package Up to
(for the entire normal study period)
HK\$1.67M (~US\$213,700)

International PhD Fellowship Scheme (IPFS)

A distinctive scholarship designed to support high-calibre foreign students from reputable universities to pursue PhD studies in Hong Kong.

Total Package Up to
(for the entire normal study period)
HK\$1.25M (~US\$159,830)

PolyU Research Postgraduate Scholarship (PRPgS)

Provides financial support to PhD and MPhil students.

Total Package Up to
(for the entire normal study period)
HK\$0.97M (~US\$124,190)

PolyU reserves the right to revise the fellowship / scholarship / fees without prior notice

By leveraging prestigious institutions' academic strengths and international competitiveness, collaborative programmes of PolyU aim to cultivate talents through research collaboration, innovation, and cultural exchange

Dual PhD Degree Programmes

In an equally split study pattern, students will conduct research at PolyU and a prestigious university to gain access to co-supervision and advanced research facilities. Successful graduates will receive two award parchments issued by PolyU and the partner institution respectively.

Joint PhD Supervision Programmes Leading to a PolyU Degree

Students are provided with the unique experience of joint supervision with leading universities, research laboratories and centres, and reputable industries that share parallel strengths in a specialised area. Successful graduates will receive a PhD degree from PolyU and a completion certificate from the partner institution.

Joint PhD Supervision Programmes

Students may conduct research at a host institution for up to half of their normal study period. Successful graduates will receive a PhD degree from the home institution.

International Exposure and Other Learning Opportunities

- *PolyU PhD Scholars International Collaborative Research Fellowship*
- *Research Student Attachment Programme*
- *RGC Postgraduate Student Conference/Seminar Grants*
- *PhD Student Internship Scheme*
- *Professional Development*
- *Experiential Language Trainings and Global Culture Activities*

Admission Requirements

Programme	Study Period	Requirements
Doctor of Philosophy (PhD)	FT 3 years / PT 6 years	Normally hold an MPhil or equivalent (a research postgraduate degree with a dissertation as an award requirement) and a Bachelor's degree, conferred by a recognised university
	FT 4 years / PT 8 years	Normally hold: - a Master's degree and a Bachelor's degree, conferred by a recognised university; OR - a Bachelor's degree with First Class Honours (or equivalent qualification), conferred by a recognised university
Master of Philosophy (MPhil)	FT 2 years / PT 4 years	At least hold a Bachelor's degree with Second Class Honours or above (or equivalent qualification) conferred by a recognised university

ENGLISH LANGUAGE REQUIREMENTS

The medium of instruction at PolyU is English. The requirements for applicants without a degree taught in English at a recognised university are:

- **IELTS (Academic Module): Overall band score 6.5 or above; OR**
- **TOEFL: Score 80 or above for the Internet-based test**

Application Deadline

Single Round

Application for Hong Kong PhD Fellowship Scheme (HKPFS)*

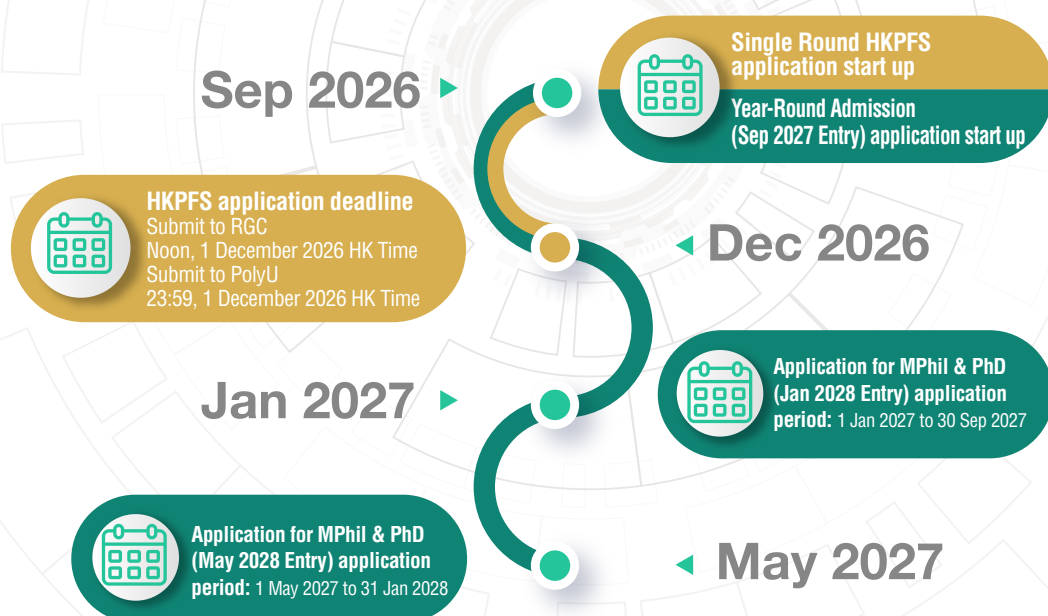
Initial Application to RGC &
Full Application to PolyU

Application Guide & Tips



Year-Round Admission

Application for MPhil & PhD



Applicants are advised to observe the application deadline of individual Departments or Schools for specific entry periods.

The Hong Kong Polytechnic University

 <https://www.polyu.edu.hk>



Contact us

Faculty of Computer and Mathematical Sciences

 <https://www.polyu.edu.hk/fcms/>

 fcms.rpg@polyu.edu.hk



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[AMA]



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Computing
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Artificial Intelligence
[DSAI]

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