香 港 浸 會 大 學
HONG KONG BAPTIST UNIVERSITY

DEPARTMENT OF
COMPUTER SCIENCE
計算機科學系

博士优先录取推荐计划 &

香港博士研究生奖学金计划

2025年秋季入学 宣讲会

May 2024

Welcome to Hong Kong

- Fact Sheet
  - Population ~ 7.4 million
  - Size: 1,104 km^2

Welcome to Hong Kong

- Hong Kong is a free and dynamic society where creativity and entrepreneurship converge.
- Strategically located in the heart of Asia, it is a cosmopolitan city offering global connectivity, security, and rich diversity, and is home to a unique network of people who celebrate excellence and quality living.

A City of QUALITY LIVING

HONG KONG

Hong Kong Baptist University (HKBU)

Funded by the Government

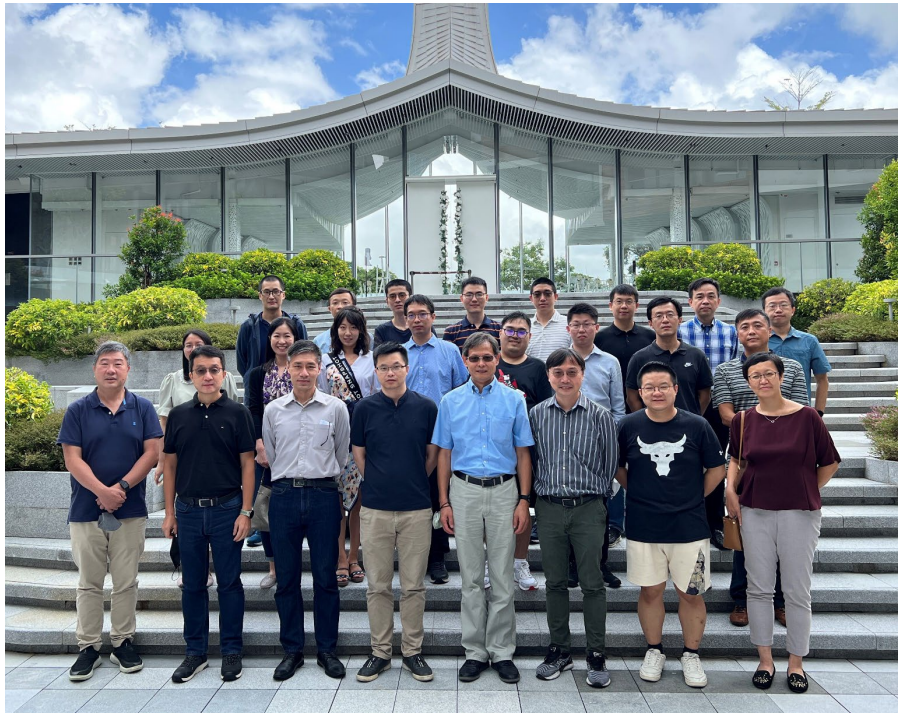
Established in **1956** –
the **2nd** oldest university in HK

About 50 undergraduate and

Over 50 postgraduate programs

> 12,000 current students

Department of Computer Science



27 Professors with PhD degrees awarded by world-renowned universities in *US, Canada, Australia, Switzerland, UK, HK*

http://www.comp.hkbu.edu.hk/v1/?page=faculty

- 1 ACM Fellow
- 3 IEEE Fellows
- 2 IAPR Fellows
- 9 Top 2% Scholars by Stanford University

Editor-in-Chief

- ACM Transactions on Recommender Systems
- IEEE Transactions on Emerging Topics in Computational Intelligence

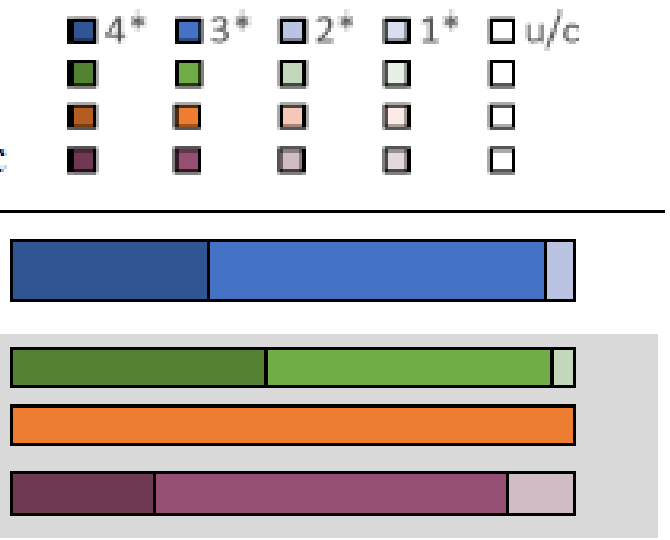
Associate Editors of various top-tier journals

- ACM Transactions on Interactive Intelligent Systems
- IEEE Transactions on Cybernetics
- IEEE Transactions on Information Forensics and Security
- IEEE Transactions on Knowledge and Data Engineering
- IEEE Transactions on Network Science and Engineering
- IEEE Transactions on Neural Networks and Learning Systems
- Proceedings of the VLDB Endowment (PVLDB)

Research Assessment Exercise 2020

No.1 Research Outputs

Sector-wide / university	Quality profile & sub-profiles	Percentage judged to meet the standard of : 4*	3*	2*	1*	u/c
Hong Kong Baptist University	Overall	35	60	5	0	0
	Outputs	45	51	4	0	0
	Impact	0	100	0	0	0
	Environment	25	63	12	0	0



Source: Results of the RAE 2020 published by UGC

Subject Ranking

CSRankings

Source: CSRankings (2018-2023)

All Areas

#5	#41	#149
Hong Kong	Asia	World

Artificial Intelligence

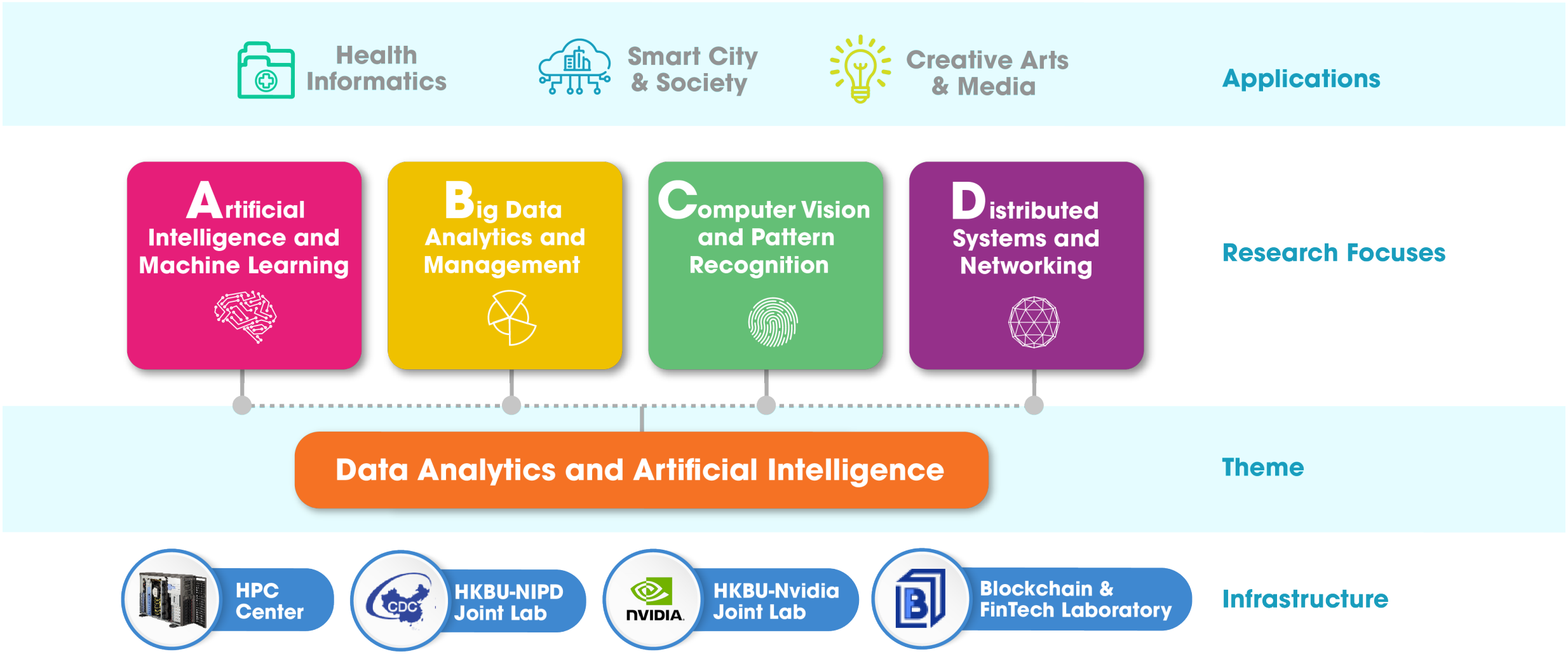
#3	#32	#71
Hong Kong	Asia	World

Databases

#3	#8	#18
Hong Kong	Asia	World

Source: CSRankings

Four Major Research Focuses

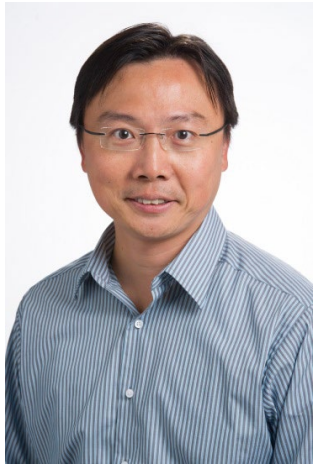


Artificial Intelligence and Machine Learning (AIML)

Prof. Jiming Liu

Associate Vice-President (Research Development) and Chair Professor

Data Analytics and Machine Learning, AI for Social Good, Complex Networks and Web Intelligence, Multi-Agent Complex Systems, Autonomy-Oriented Computing



Prof. William Cheung

Associate Vice-President (Undergraduate Programmes) and Professor

Artificial Intelligence, Data Mining, Social Network Analysis, Health Informatics

Prof. Li Chen

Associate Head (Research) and Professor

Conversational AI, Explainable AI, Recommender Systems, Human-Computer Interaction

Artificial Intelligence and Machine Learning (AIML)

Dr. Yifan Chen

Assistant Professor

Computation in Machine Learning (Transformers, GNNs)
Nonparametric Statistics
Optimal Transport

Dr. Bo Han

Assistant Professor

Weakly supervised Representation Learning, Security, Privacy and Robustness in Machine Learning, Automated, Federated and Graph Machine Learning, Interdisciplinary Problems

Dr. Liu Yang

Assistant Professor

Artificial Intelligence, Machine Learning, Computational Epidemiology, Infectious Disease Modeling

Dr. Lu Zhang

Assistant Professor

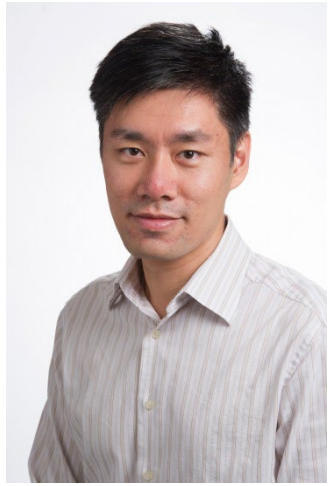
AI in drug discovery (small molecule, Aptamer, Chinese Medicine), AI in genomics (use deep learning to decipher the genome of viruses and bacterial)

Big Data Analytics and Management (BDAM)

Prof. Jianliang Xu

Head and Chair Professor

Big Data Management, Blockchain, Mobile/Pervasive Computing, Data Security and Privacy



Prof. Byron Choi

Associate Head (Teaching and Learning) and Professor

Graph queries, database securities, time series analysis

Dr. Xin Huang

Associate Professor

Data Management, Big Graph Mining & Visualization, Social Network Analysis, Privacy-Aware Computing

Dr. Ma Jing

Assistant Professor

Natural language Processing, Information Verification, Opinion mining, stance detection, Explainable Machine Learning, Question and Answering, Dialog System

Dr. Renchi Yang

Assistant Professor

Graph query processing, web search, social network analysis, graph representation learning

Computer Vision and Pattern Recognition (CVPR)

Prof. Pong Chi Yuen

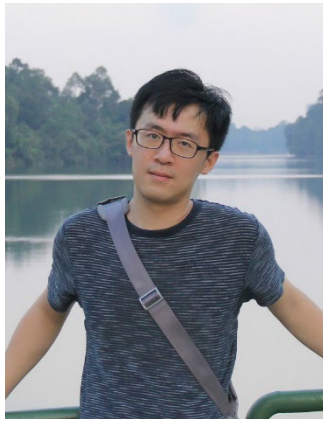
Associate Dean of Science (Teaching and Learning) and Chair Professor

Human face recognition, Biometric security and privacy, Intelligent video surveillance

Prof. Yiu Ming Cheung

Chair Professor

Machine Learning, Visual Computing, Data Science, Pattern Recognition, Multi-objective Optimization, Information Security



Dr. Jie Chen

Assistant Professor

Computational Photography, 3D Vision, Motion, Art Tech

Dr. Renjie Wan

Assistant Professor

Computational Photography, 3D Vision, AI security

Dr. Kaiyang Zhou

Assistant Professor

Computer Vision, Machine Learning

Distributed Systems and Networking (DSAN)

Prof. Yiu-Wing Leung

Professor

Networking,
Cloud computing,
Internet computing

Dr. Henry Hong-Ning Dai

Associate Professor

Internet of Things,
blockchain, and
big data analytic

Dr. Juncheng Wang

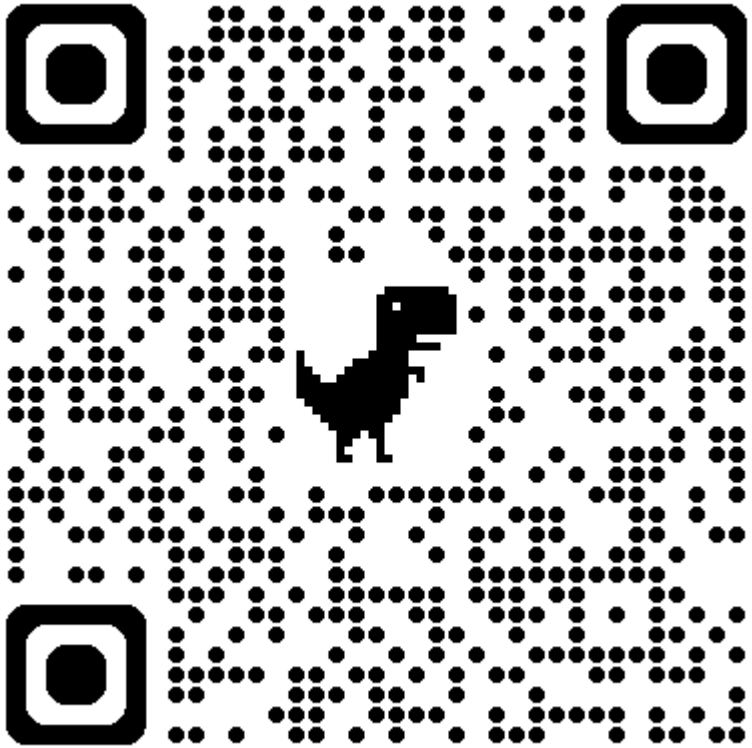
Assistant Professor

Networked Systems,
Mobile Communications,
Online Learning and
Optimization

Dr. Amelie Chi Zhou

Assistant Professor

Parallel and Distributed Systems, Cloud Computing, High-Performance Computing



PROFILE OF FACULTY MEMBERS

https://ychen-stat-ml.github.io/docs/hkpfs2025-HKBU.pdf

World-class Research Facilities

- Desktops
  - **Each new student provided with a desktop with RTX4090/4070 GPU card**
- GPU Clusters
  - 1 Nvidia DGX server with 8 Nvidia Tesla A100-SXM4-40GB
  - 6 GPU nodes with 24 Nvidia Ampere A100-80G
  - 2 GPU nodes with 4 Nvidia Ampere A100-40G
  - 1 Huawei AI server with eight Ascend 9100 NPU-32G
- Big Data Cluster
  - Hadoop + Spark
  - 5 dual-Xeon servers with 120TB of storage
- Research Cluster
  - 26 dual-Xeon and 6 dual-AMD EPYC servers
  - Attached with 1PB storage system

PhD Program Structure

- Normal period of study
  - **4 years**

- Requirement: 22 units of coursework + research project
  - Typically, 3 units @ course

- **Guaranteed overseas exchange**
  - 1-6 months research in an overseas university or research laboratory

- **Overseas post-doctoral scheme**
  - Support fresh graduates to gain more research experience at renowned overseas universities or research institutes for half to one year

PhD Admission – Three channels

1. **Early Admission Scheme (COMP)**
   - ~~Deadline: 15 June, 2024~~
   - Results notification: 12 July, 2024
   - Apply via department website: https://www.comp.hkbu.edu.hk/phd-eas

2. **Regular Track (HKBU)**
   - Two deadlines (tentative): 1 December, 2024; 15 April, 2025
   - Apply via university website: https://gs.hkbu.edu.hk/admission/research-postgraduate-programmes/application

3. **Hong Kong PhD Fellowship Scheme (HKPFS)**
   - http://www.comp.hkbu.edu.hk/hkpfs/

Scholarship and Financial Support

- Studentships are provided to full-time PhD students
  - Current stipend: **~HK$18,500 per month** for 4 years
- Financial support for carrying out research-related activities such as attending overseas conferences
  - **At least HK$60,000** during the study period
- More details:

  https://gs.hkbu.edu.hk/programmes/doctor-of-philosophy-master-of-philosophy-department-of-computer-science

Hong Kong PhD Fellowship Scheme (HKPFS)

Established by the HK Research Grants Council (RGC) with the aim to attract the best students in the world (e.g., national scholarship awardees and/or top 5% of the class) to pursue their PhD studies in Hong Kong's institutions

HKPFS Applicants	Scholarship
Nominated by HKBU and awarded by HK Government	HK$1,920,000 during 4-year PhD study (plus up to HK$350,000 tuition fee waive & overseas conference/attachment support)*
Nominated by HKBU but not awarded by HK Government	HK$960,000 during 4-year PhD study (plus up to HK$60,000 overseas conference/attachment support)*

** Visit http://www.comp.hkbu.edu.hk/hkpfs for a detailed breakdown*

Why Applying HKPFS via COMP-HKBU?

	HKPFS	Additional Support by HKBU and COMP
Tuition Waiver # (#HK$42,100 per academic year)	Nil	First year tuition waiver; tuition waivers for second to fourth years of study subject to satisfactory academic progress
Stipend	HK$993,600	Additional HK$926,400 for 4-year study
Support for Research-related Activities	HK$41,400	Additional HK$60,000
Support for Outstanding PhD Graduates	Nil	Postdoctoral Research Fellowship for furthering research in the top overseas universities

HKPFS application: Timeline (tentative)

- 1 September 2024: Application starts
- 1 December 2024: Application deadline
- Late-March 2025: RGC announces result
- April 2025: Make offers and confirm acceptance with awardees

***Note*:** You may contact interested supervisor in our department for the preparation of application materials.

Please refer to our departmental website for the up-to-date information: http://www.comp.hkbu.edu.hk/hkpfs/

Where Our PhD Graduates Go?

Industry

facebook

Google

amazon

Tencent 腾讯

Microsoft

dji 大疆創新

PCCW

HUAWEI | NOAH'S ARK LAB

Lenovo Machine Intelligence Center

Academia

香港科技大學 THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

ICT 中科院计算所 INSTITUTE OF COMPUTING TECHNOLOGY, CAS

哈爾濱工業大學 Harbin Institute of Technology

華中科技大學 HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

SUN YAT-SEN UNIVERSITY

SOUTHEAST UNIVERSITY

BEIJING INSTITUTE OF TECHNOLOGY

SOUTH CHINA UNIVERSITY OF TECHNOLOGY

EAST CHINA NORMAL UNIVERSITY

HONG KONG BAPTIST UNIVERSITY

Further Research

JOHNS HOPKINS UNIVERSITY

McGill UNIVERSITY

RUTGERS

UC San Diego

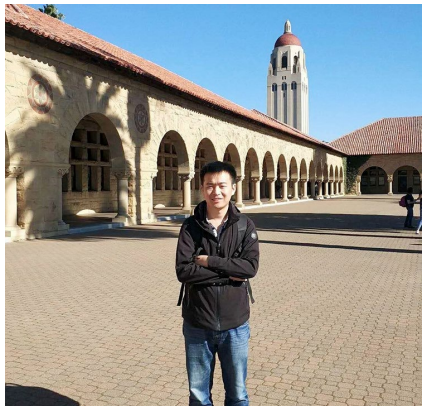
SFU SIMON FRASER UNIVERSITY

UNIVERSITY OF LEEDS

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

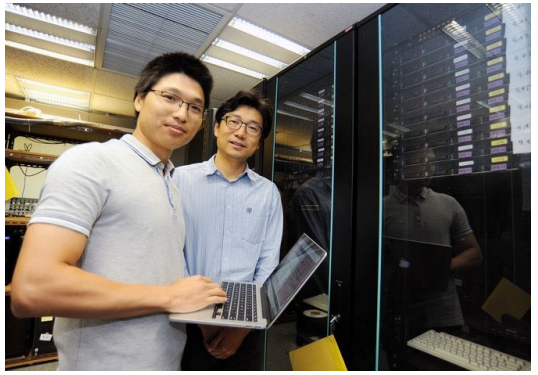
CDC CHINESE CENTER FOR DISEASE CONTROL AND PREVENTION
NATIONAL INSTITUTE OF PARASITIC DISEASES

Ye Mang (PhD, HKPFS Awardee, 2019)



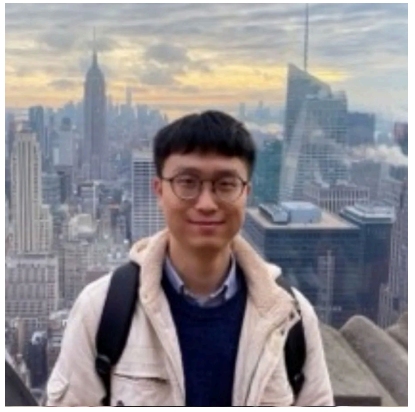
- Now: *Full Professor, Wuhan University*
- 海外优青
- Open-world visual learning and its applications in multimedia analysis and reasoning (7,400+ citations)

Shi Shaohuai (PhD, 2020)



- Now: *Full Professor, Harbin Institute of Technology, Shenzhen*
- 海外优青
- Performance benchmarking for deep learning frameworks (2,300+ citations)

Shao Rui (PhD, 2021)



- Now: *Full Professor, Harbin Institute of Technology, Shenzhen*
- 海外优青
- Computer vision and multimodal learning (1,100+ citations)

The position of HKBU CS

- Small size -> low QS rank, while still the same as HIT
  - Powerful faculty, comparable to PolyU and CityU
  - Academia/Industry will not differentiate PolyU/CityU/BU, especially when you have some publications

- Attractive placement
  - Outstanding publication record (which depends on both the students' effort and the advisors' help, e.g., see Prof. Bo Han's students, https://bhanml.github.io/group.html)
  - Last year, one three-year PhD student graduated and is now an SJTU assistant researcher (https://www.comp.hkbu.edu.hk/~csxlzhu/, BS in math from ECNU)

The position of HKBU CS (cont.)

港中大深圳与港科大广州助理教授如何选择?

接下来从两校Phd的角度去考虑

接下来的话不喜勿喷：**不建议任何学生赌上自己的academic journey去两个学校读博。。。**

可能有的学生会问：读博不是看导师吗，为啥要看学校。这句话其实只对了一半，诚然CUHKSZ, USTGZ有很多好老师(指学术高产+性格好)。但是问题是其他学校也有很多好老师，而且比例可能只高不低.

从faculty学术论文的产出来看 CUHKSZ 略大于 USTGZ，但是二者的水平都远远低于 香港top3 也低于cityU和polyU[Q] 综合水平可能接近香港浸会。希望大部分申请的学生认真去看一下 香港浸会的**faculty水平和毕业生出路 不吹不黑真的比 CUHKSZ要好上不少。**

就是首先这个评价体系是肯定没有问题的 这种叫做学术声誉（reputation）东西需要时间积累 不能用*一两个*个例来代表。这里cite 一个交大教授的回答。zhihu.com/answer/228217...

CUHKSZ,USTGZ为新学校目前就是缺乏学术声誉的积累。

除了学术方面，政策上两个学校都是吃力不讨好。首先大部分的海归学校博士 都有各种人才计划的政策福利，这点上两个学校因为缺乏教育部认证所以无法享受其福利，包括钱，购房，购车等。当然这个可以花几年刷一个博后去make it。

- In general, better than HKUST-GZ and CUHK-SZ
  - Overseas experience, HK PR
  - 4-year or even 3-year PhD program
  - Guaranteed funding for overseas visiting

- Other opinions:
  - https://www.zhihu.com/question/550524521
  - https://www.zhihu.com/question/524933150/answer/2418798252

The position of HKBU CS (cont.)

- In general, better than HKUST-GZ and CUHK-SZ
  - Overseas experience, HK PR
  - 4-year or even 3-year PhD program
  - Guaranteed funding for overseas visiting

- Other opinions:
  - https://www.zhihu.com/question/550524521
  - https://www.zhihu.com/question/524933150/answer/2418798252

  - https://www.xiaohongshu.com/explore/6681a345000000001f004d3a

Think twice before you accept the offer

- Observations:
  - Literally, no happy PhD students in ***U CS
  - Some ***U students even can meet the PhD graduation requirements when they start their PhD, while still have to take more years to graduate

- Key points:
  - Will the advisor allow you to do internship / visit other institutions?
  - Will the advisor allow external collaboration?
  - Will the advisor allow you to explore new directions besides his/hers?
  - How big is the group?
    - A PI of a large group can easily admit a large bundle of students, while pay very little attention to each. (Unlike in mainland, usually there is no other junior faculty in a PI's group in HK.)
    - In ***U CS, some PIs maintain a group of size 60-100. Naturally, most students in a department are in such groups.

Thank you for your attention!

Q & A