

Introduction to CSE 2025

Xiaofang Zhou



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



計算機科學及工程學系
THE DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING



QS World University Rankings 2025

Computer Science

(#1 in HK for 12 times in the last 15 years)

24 ↑8



QS World University Rankings 2025

Data Science and Artificial Intelligence

(#1 in HK, #3 in China)

17 ↓7



THE World University Rankings 2025

Computer Science

(#1 in HK in the last 9 years, #3 in China)

28 ↑3



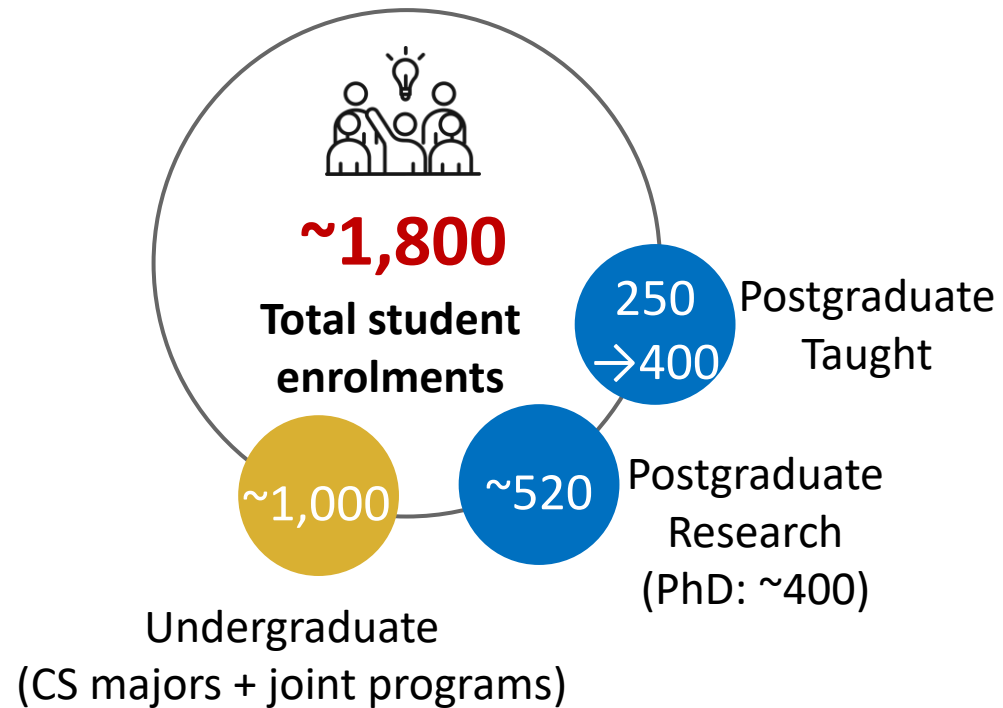
CS Rankings 2025

DB #1, Vis/HCI #4, CV #10, IR #12, SE
#13, AI #18, Networks #26, NLP #33

20 ↑8



CSE Education



HKUST-wide extended major (+AI) since 2022

New Department-based UG admission

New MSc IT (Cybersecurity) from 2024

New BEng AI from 2025

New MSc AI from 2025

New MSc AI and Entrepreneurship from 2025

Research Themes and Areas

AI

Data Science (DS)

Systems (SY)

AI/ML

Artificial Intelligence (AI)

CV

Vision and Graphics (VG)

NLP

Natural Language Processing (NLP)

LLM

**Bio
med**

DB/DS

Data, Knowledge and Information
Management (DB)

HCI/VIS

Human-Computer Interaction (HCI)

Theory

Theoretical Computer Science (TH)

LAE

IoT

**Cyber-
security**

Cybersecurity (SEC)

SE/PL

Software Engineering and Programming
Languages (SEPL)

Networks

Networking and Computer Systems (NE)

Faculty

Song Guo, Chair Professor
IEEE Fellow
Highly cited researcher
Associate DH (Research and KT)
Director, MSc AI programs

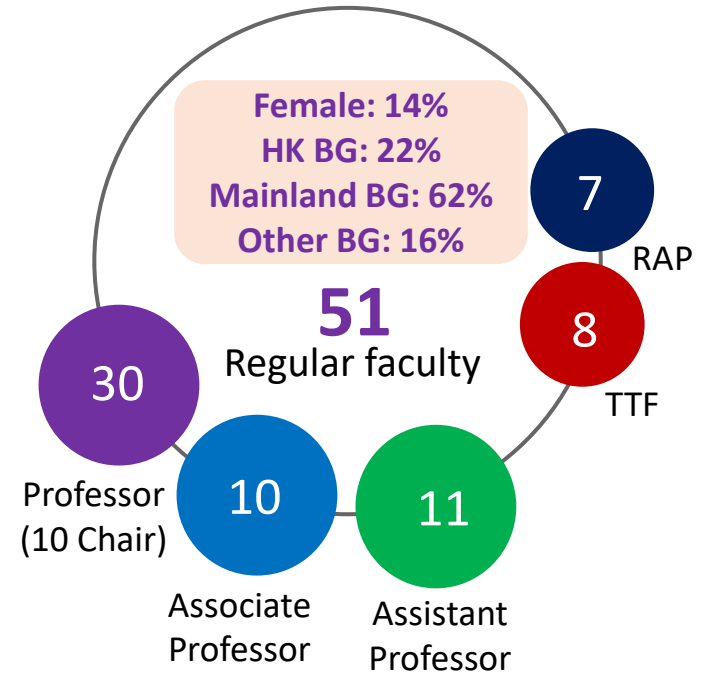


Albert Chung, Professor
Associate Dean (Research)
Director, Center for Medical
Imaging and Analysis

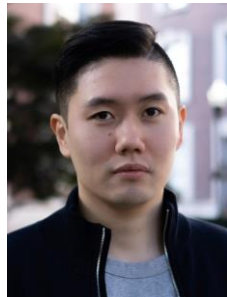


Jiaya Jia, Chair Professor
IEEE Fellow
Founder of SmartMore
Director, Von Neumann Institute

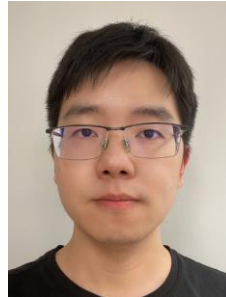
Mo Li, STEM Professor
IEEE Fellow
Director, LAE Research Center
General Chair, MobiCom 2025



Jiasi Shen
MIT



Dongdong She
Columbia



Junxian He
CMU



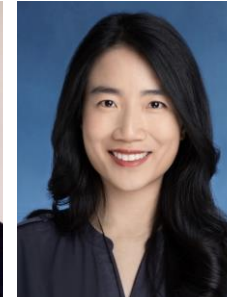
Long Chen
Zhejiang/Columbia



Binhang Yuan
Rice/ETH



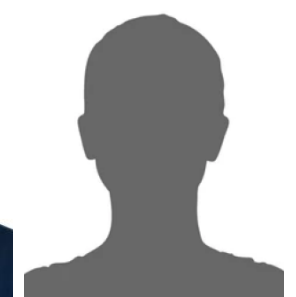
Xiaomin Ouyang
CUHK/UCLA



May Fung
UIUC

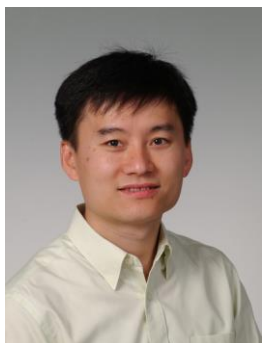


Arpit Narechania
Georgia Tech



20 full interviews in 2025,
one offer accepted

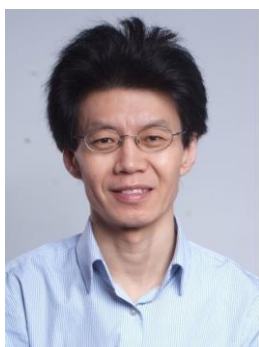
Some Recent Impact Cases



Gary Chan

AIoT Anti-Wandering
Technologies: Pandemic and
Ageing Population

StayHomeSafe, HK Govt, JC



Long Quan

3D Reconstruction in
Computer Vision

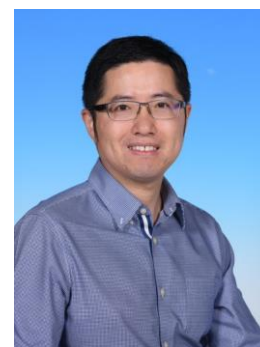
Apple Acquisition



Charles Zhang

Building an X-ray Diagnosis
System for Enterprise-
Scale Software

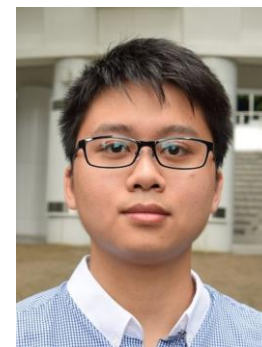
Ant Finance Acquisition



Kai Chen

Boosting Efficiency and
Sustainability in AI
Infrastructure

TBRs & wide adoption



Qifeng Chen

Innovative Open-source
Visual Generative AI
Applications

Preempt SORA



Hao Chen

Medical LLMs



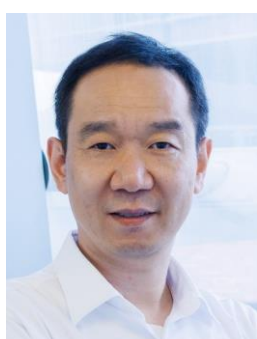
Jiaya Jia

Smart manufacturing



Yike Guo

LLM and GAI



Song Guo

Edge computing & AIoT



Qian Zhang

Health care



Mo Li

LAE



Many more...

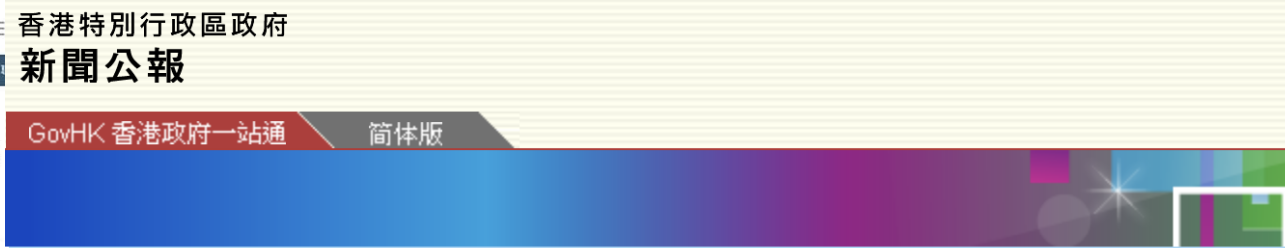
AI, Data Sci, Systems

HK Generative AI (HKGAI)

- An InnoHK project led by HKUST
 - To build open-source foundation models for HK
 - V1 announced in February 2025
 - Vertical applications in legal and medical areas, plus X (finance, telecommunications...)



香港生成式人工智能研發中心
Hong Kong
Generative
AI | Research
& Development
Center



創新科技及工業局局長出席香港生成式人工智能研發中心HKGAI V1大模型全球首發發布會致辭全文（只有中文）（附圖）

去



創新科技及工業局局長出席香港生成式人工智能研發中心HKGAI V1大模型全球首發發布會致辭全文（只有中文）（附圖）

以下是創新科技及工業局局長孫東教授今日（二月二十五日）在InnoHK香港生成式人工智能研發中心HKGAI V1大模型全球首發發布會的致辭全文：

Research Joint Labs with Industry



Von Neumann
Institute

Highlights of CSE Faculty and Alumni



Prof Qiang YANG
Co-founder
Chair Professor



Professor Jiaya JIA
Founder and Chairman
PhD (Computer Vision)



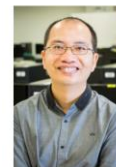
Mr Jianxiong XIAO
Founder, CEO

MPhil, CSE



Mr Tat LEE
Chief Executive
and Executive Director

BEng (Comp Sci)



Yongxin Tong 童咏昕

Professor,
Vice Dean (Research), NUS School of Computing,
Department of Computer Science,
School of Computing,
National University of Singapore
Office: #COM3-02-12, COM3 Building, 11 Research Link, NUS,
Singapore 119391[map]
Ph.D. HKUST, 2008
Email: hebs(at)comp.nus.edu.sg

Yongxin Tong is a Professor in the State Key Laboratory of Software Development Environment (SKLSDE) of the School of Computer Science and Engineering at Beihang University (BUAA). He received a Ph.D. degree in Computing Science and Engineering from the Department of Computer Science and Engineering, The Hong Kong University of Science and Technology (HKUST), under Prof. Lei Chen's supervision. He also received a Master degree in Software Engineering at Beihang University and a Double Bachelor degree in Economics from China Centre for Economic Research (CCEER) at Peking University.

CONNECTORS

As a regular promotion program, each year we feature several alumni as the HKUST CSE Connectors. They will be invited to communicate with our students, researchers and faculties and share their experiences. If you are interested in serving as a connector or know anyone interested, please [contact us](#).



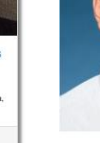
James Tin Yau KWOK
(PhD 1998)
Professor, The Hong Kong University of Science and Technology
[Read more](#)



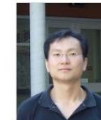
Paul LEUNG
(MPhil 1998)
Head of Financial Markets Operations, Standard Chartered Bank
[Read more](#)



Nikos MAMOULIS
(PhD 2009)
Associate Professor, University of Ioannina, Greece
[Read more](#)



Jiangchuan LIU
(PhD 2009)
Professor, Simon Fraser University, Canada
[Read more](#)



Nicholas Tsz-Wo SZE
(MPhil 2001)
Researcher, Hortonworks
[Read more](#)



Yufei TAO
(PhD 2002)
Professor, Chinese University of Hong Kong
[Read more](#)



Jessie Jie YIN
(PhD 2006)
Senior Lecturer, The University of Sydney, Australia
[Read more](#)



Baihua ZHENG
(PhD 2003)
Associate Professor, Singapore Management University
[Read more](#)



Xiaoyong CHAI
(MPhil 2005)
Sr Architect, Team Lead, WalmartLabs, USA
[Read more](#)



Junfeng PAN
(PhD 2007)
Engineering Manager/Lead, Ads Ranking team, Facebook Inc., USA
[Read more](#)



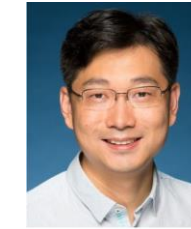
Jian MA
(PhD 2007)
Executive Director in Quantitative Research China Center, JPMorgan Chase & Co., Hong Kong
[Read more](#)



Dou SHEN
(PhD 2007)
Executive Vice President, Baidu Inc., Beijing, China
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(PhD 2007)
Executive Vice President, Baidu Inc., Beijing, China
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CHU Xiaowen (褚晓文)

Professor, Acting Head

Data Science and Analytics Thrust

Information Hub

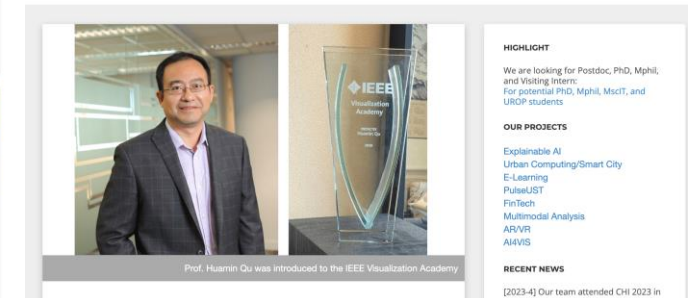
The Hong Kong University of Science and Technology (Guangzhou)

Email: xwchu@ust.hk



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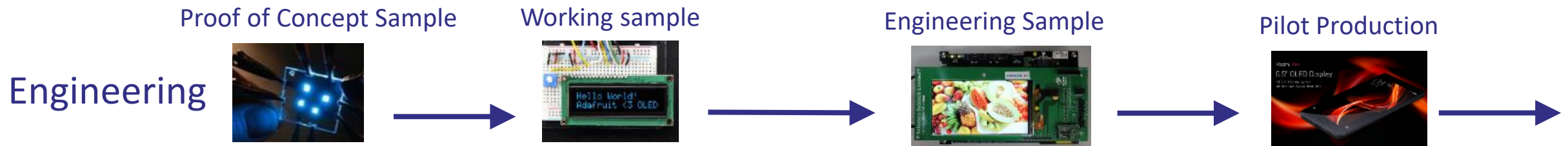
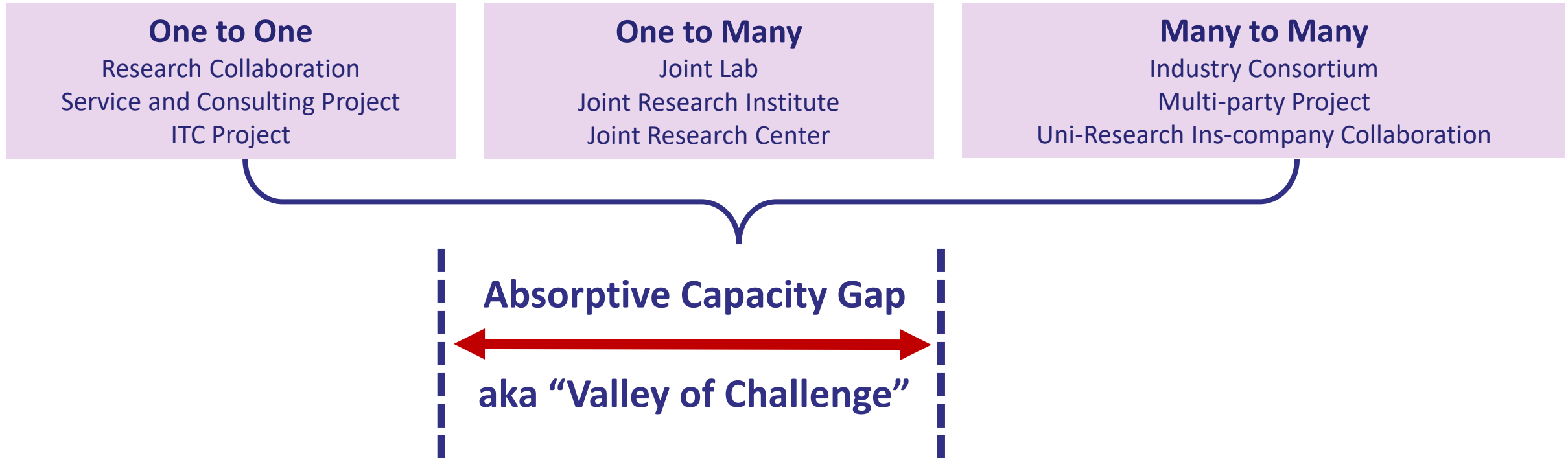
The HKUST VisLab is dedicated to advancing the frontiers of visual analytics, driven by a passion for transformative research with far-reaching impact.



12 university professors from this group (4 this year, UC Davis, Minnesota x 2, Texas A&M)



Engagement Strategy: Bridge the Gap





A **top-20** CS
department
in the world

IT innovation
with **real
impact**

An
international
hub of CS
research and
education