

EDUCATION

2017 Sept - 2021 July **B.Sc. in Computer Science**, City University of Hong Kong, Hong Kong (HK)
 Minor in Mathematics
 • CGPA 3.89 (Top 5%), Major GPA 3.95, Minor GPA 4.08

ENGLISH TEST GRADES

TOEFL 109
GRE 330 + 3.5

EXPERIENCE

Research Assistant 2021 Aug - Now
Department of Computer Science, City University of Hong Kong, HK
• Supervised by Professor **Liao Jing** and worked on **computer vision**, especially **3D medical image segmentation**

Student Research Assistant 2020 Sept - 2021 Feb
Department of Computer Science, City University of Hong Kong, HK
• Supervised by Professor **Wang Jianping** and researched system **scheduling** schemes for **self-driving** tasks

Full-stack Programmer, Internship 2019 Sept - 2020 June
Sik Sik Yuen, HK
• **Developed** an app that identifies the emotion of users as well as **maintained** the existing app and web service

Publications

- Du Hao*, **Dong Qihua***, Xu Yan, Liao Jing. “**Weakly-Supervised 3D Medical Image Segmentation using Geometric Prior and Contrastive Similarity**”. Submitted to *IEEE Transactions on Medical Imaging*, 2022.
- He Ruozhen*, **Dong Qihua***, Lin Jiayin, Rynson Lau. “**Weakly-Supervised Camouflaged Object Detection with Scribble Annotations**”. Submitted to *Proc. NeurIPS*, 2022.

Projects

Proper Initialization of 3D models 2022 May - Now
• Explore how to transfer the learning weights of 2D models, both spatiotemporally and 3D spatially.

Weakly-Supervised 3D Medical Image Segmentation Framework 2022 Feb - 2022 May
• Used prior geometric knowledge to guide the segmentation of medical images, and distinguished instances from model representation space

Weakly-Supervised Camouflaged Object Detection 2021 Dec - 2022 May
• Proposed a new weakly supervised task with a dataset, and a method that exceeded baseline largely

Swin Transformer on 3D Medical Image 2021 Aug - 2022 Jan
• Applied 3D swin transformer to segment medical images.

ACADEMIC AWARDS AND SCHOLARSHIPS

2019	Bronze Medal , The 2019 ICPC Asia Nanchang Regional Contest, Jiangxi Normal University, China
2017 - 2021	Dean's List , City University of Hong Kong, HK
2017 - 2021	Full Tuition Scholarship , City University of Hong Kong, HK

Skills

- Computer languages: Python, C++, R, Javascript, Java, CSS
- Tools and library: PyTorch, Numpy, Detectron2, AdelaiDet, mmDet, nnUNet, Scikit-learn, OpenCV
- Athletic: CityU mainland basketball team
- Guitar: Learn by myself and often play by myself!

UNIVERSITY ACTIVITIES AND COMMUNITY SERVICE

2019	Outstanding Athlete in Professor Edmond Ko Cup's Relay Competition, City University of Hong Kong, HK
2018	City-Youth Empowerment Project , City University of Hong Kong, HK <ul style="list-style-type: none">• Organized and delivered English interview workshops for underprivileged primary school students
2018	Stellar Social Practice Project , Fudan University, Shanghai <ul style="list-style-type: none">• Visited villages in Yunnan Province to explore and promote Yi minority culture