XIANZHI LI (李贤芝)

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Address: Rm903, SHB, The Chinese University of Hong Kong, Shatin, Hong Kong

EDUCATION:

➢ **The Chinese University of Hong Kong (CUHK)**   08/2016 - Present

Ph.D. in Computer Science and Engineering   Expected graduation date: 07/2020

Advisor: Prof. Pheng-Ann Heng & Prof. Chi-Wing Fu

➢ **The Chinese University of Hong Kong (CUHK)**   08/2014 - 07/2015

M. Sc. in Biomedical Engineering

GPA: 3.84/4.0

☆ Awarded the Dean's List for outstanding academic performance

➢ **Sichuan University, China**   08/2010 - 07/2014

B. Eng. in Biomedical Engineering

GPA: 3.69/4.0

RESEARCH INTERESTS:

3D Vision, Point Cloud Processing, Computer Graphics, and Deep Learning.

WORKING EXPERIENCES:

- Internship at Tencent Quantum Lab   09/2019 – 02/2020

Mainly focus on the rotation-invariant point cloud analysis using deep learning techniques, and also the protein pocket segmentation

- Research Assistant at CUHK   08/2015 – 07/2016

Mainly focus on the design and development of a "TouchBody" project (an interactive human organ learning system)

AWARDS & HONORS:

Certificate of Merit for Excellent Teaching Assistant awarded by CSE Department, CUHK	2018
Biomedical Engineering Scholarship, CUHK	2015
Outstanding Graduates Awards of Sichuan University	2014
National Scholarship (the **highest** scholarship for undergraduate students in China)	2013
Excellent Student of Sichuan University	2012

PUBLICATIONS:

Journal Papers

[J1] *Unsupervised Detection of Distinctive Regions on 3D Shapes*
Xianzhi Li, Lequan Yu, Chi-Wing Fu, Daniel Cohen-Or, and Pheng-Ann Heng
ACM Transactions on Graphics (**TOG**)

[J2] *DNF-Net: a Deep Normal Filtering Network for Mesh Denoising*
Xianzhi Li, Ruihui Li, Lei Zhu, Chi-Wing Fu, and Pheng-Ann Heng
IEEE Transactions on Visualization and Computer Graphics (**TVCG**)

Conference Papers

[C1] *PointAugment: an Auto-Augmentation Framework for Point Cloud Classification.*
Ruihui Li, **Xianzhi Li**, Pheng-Ann Heng, and Chi-Wing Fu
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020 (***oral***)

[C2] *PU-GAN: a Point Cloud Upsampling Adversarial Network*
Ruihui Li, **Xianzhi Li**, Chi-Wing Fu, Daniel Cohen-Or, and Pheng-Ann Heng
IEEE International Conference on Computer Vision (**ICCV**), 2019

[C3] *Deep Floor Plan Recognition using a Multi-task Network with Room-boundary-Guided Attention*
Zhiliang Zeng, **Xianzhi Li**, Chi-Wing Fu, and Ying-Kin Yu
IEEE International Conference on Computer Vision (**ICCV**), 2019

[C4] *Non-local Low-rank Normal Filtering for Mesh Denoising*
Xianzhi Li, Lei Zhu, Chi-Wing Fu, and Pheng-Ann Heng
Computer Graphics Forum (**Pacific Graphics**), vol. 37, issue 7, pp. 155–166, 2018

[C5] *EC-Net: an Edge-aware Point set Consolidation Network*
Lequan Yu*, **Xianzhi Li***, Chi-Wing Fu, Daniel Cohen-Or, and Pheng-Ann Heng
European Conference on Computer Vision (**ECCV**), 2018
(* Joint First Author)

[C6] *PU-Net: Point Cloud Upsampling Network*
Lequan Yu*, **Xianzhi Li***, Chi-Wing Fu, Daniel Cohen-Or, and Pheng-Ann Heng
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
(* Joint First Author)

PROFESSIONAL ACTIVITIES:

GAMES Open Online Talk, "Deep Point Cloud Upsampling" (in Chinese), Nov, 2019   [Video link]
Reviewer of CVPR 2020, WACV 2021
Reviewer of IEEE Transactions on Visualization and Computer Graphics (TVCG)

PROFESSIONAL SKILLS:

Languages: Python, Matlab, C/C++
Toolkits: TensorFlow, OpenGL, Unity

TEACHING:

CSCI 5210 Advanced Topics in Computer Graphics & Visualization (for Ph.D. students)   Fall 2018

CSCI 3260 Principles of Computer Graphics   Spring 2016, Spring 2017, Spring 2018

CSCI2100 Data Structure   Fall 2016