

# RUIHUI LI

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## EDUCATION

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### Ph.D. in Computer Science

08/2017 - 07/2021 (Expected)

The Chinese University of Hong Kong (CUHK), Hong Kong, China

Advisor: Prof. Chi-Wing Fu

### B.E & M. Sc. in Computer Science and Technology

09/2010 - 07/2017

Hunan University (HNU), Changsha, China

## RESEARCH INTERESTS

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

## PUBLICATIONS

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Conference:

- [C2] *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**, CCF-A), 2020. (**Oral**)
- [C1] *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**, CCF-A, Citation: 21), 2019.

Journal:

- [J3] *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**, IF:3.780, CCF-A), 2020.
- [J2] *Aggregating Complementary Boundary Contrast with Smoothing for Salient Region Detection*  
**Ruihui Li**, Jianrui Cai, Hanling Zhang and Taihong Wang  
The Visual Computer (**TVC**, IF:1.456, CCF-C), 2017.
- [J1] *Enhancing Augmented VR Interaction via Egocentric Scene Analysis*  
Yang Tian, Chi-Wing Fu, Shengdong Zhao, **Ruihui Li**, Xiao Tang, Xiaowei Hu, and Pheng-Ann Heng  
ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**, IF:3.022, CCF-A), 2019.

Manuscripts under review:

- [M2] *Non-Local Part-Aware Point Cloud Denoising*  
Chao Huang\*, **Ruihui Li**\*, Xianzhi Li, Pheng-Ann Heng, and Chi-Wing Fu (\*joint 1st authors)  
IEEE Transactions on Visualization and Computer Graphics (**TVCG**, IF:3.780, CCF-A), 2020.
- [M1] *A Rotation-Invariant Framework for Deep Point Cloud Analysis*  
Xianzhi Li, **Ruihui Li**, Chi-Wing Fu, Guangyong Chen, Daniel Cohen-Or, and Pheng-Ann Heng  
IEEE Transactions on Visualization and Computer Graphics (**TVCG**, IF:3.780, CCF-A), 2020.

## AWARDS AND HONORS

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National Scholarships (the <b>highest</b> scholarship for graduate students in China)	2016
Second Prize in Intel Cup Undergraduate Electronic Design Contest (Advisor: Xu Cheng)	2014
Gold Award of Pan-Pearl-River-Delta University IT Project Competition in China	2014
First Prize Undergraduate Scholarship	2011&2012&2013
Award of Pacemaker to Merit Student	2011

## TECHNICAL SKILLS

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<b>Languages</b>	Python, C/C++, Java, Matlab
<b>Toolkits</b>	OpenGL, TensorFlow, Pytorch

## TEACHING ASSISTANT

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CSCI 5210 Advanced Topics in Computer Graphics and Visualization	Spring 2020
CSCI 3260 Principles of Computer Graphics	Fall 2018&2019
CSCI3180 Principles of Programming Language	Spring 2019
ENGG1110J Problem Solving by Programming	Spring 2018
CSCI1130 Introduction to Computing Using Java	Fall 2017