

Zeyu HU

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EDUCATION

Aug 2018 — Present	Ph.D. in CSE, Hong Kong University of Science and Technology	Hong Kong
	<ul style="list-style-type: none">• Advisor: Prof. Chiew-Lan Tai• Research Area: 3D Scene Understanding	
Aug 2014 — Jun 2018	B.S. in Automation, University of Science and Technology of China	Hefei
	<ul style="list-style-type: none">• GPA: 3.59/4.3 (86.45/100) Rank: 11/82• TOEFL: 106 GRE: 323	

WORK EXPERIENCES

Aug 2020 — Present	Research Intern, Tencent Lightspeed & Quantum Studios	Shenzhen
	<ul style="list-style-type: none">• City Scene Reconstruction<ul style="list-style-type: none">• Analysis of architectural shapes• Façade parsing• Scanned Object Completion<ul style="list-style-type: none">• Point cloud upsampling• Indoor Scene Reconstruction (image-based)<ul style="list-style-type: none">• Layout estimation• Object pose estimation• Mesh reconstruction• Textured Mesh Generation (image-based)<ul style="list-style-type: none">• Pose estimation• Texture synthesis	
Feb 2019 — Feb 2020	Teaching Assistant, Hong Kong University of Science and Technology	Hong Kong

PUBLICATIONS

- **Voxel-Mesh Network for Geodesic-Aware 3D Semantic Segmentation of Indoor Scenes**
 - Zeyu Hu, Xuyang Bai, Jiaxiang Shang, Runze Zhang, Jiayu Dong, Xin Wang, Guangyuan Sun, Hongbo Fu, Chiew-Lan Tai
 - IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2022
 - ICCV SI 2021 invited, under review
- **LiDAL: Inter-frame Uncertainty Based Active Learning for 3D LiDAR Semantic Segmentation**
 - Zeyu Hu, Xuyang Bai, Runze Zhang, Xin Wang, Guangyuan Sun, Hongbo Fu, Chiew-Lan Tai
 - European Conference on Computer Vision (ECCV) 2022
 - Under review
- **TransFusion: Robust LiDAR-Camera Fusion for 3D Object Detection with Transformers**
 - Xuyang Bai, Zeyu Hu, Xinge Zhu, Qingqiu Huang, Yilun Chen, Hongbo Fu, Chiew-Lan Tai
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2022
- **VMNet: Voxel-Mesh Network for Geodesic-Aware 3D Semantic Segmentation**
 - Zeyu Hu, Xuyang Bai, Jiaxiang Shang, Runze Zhang, Jiayu Dong, Xin Wang, Guangyuan Sun, Hongbo Fu, Chiew-Lan Tai
 - IEEE International Conference on Computer Vision (ICCV) 2021 Oral
- **Learning to Match Features with Seeded Graph Matching Network**
 - Hongkai Chen, Zixin Luo, Jiahui Zhang, Lei Zhou, Xuyang Bai, Zeyu Hu, Chiew-Lan Tai, Long Quan
 - IEEE International Conference on Computer Vision (ICCV) 2021
- **PointDSC: Robust Point Cloud Registration using Deep Spatial Consistency**
 - Xuyang Bai, Zixin Luo, Lei Zhou, Hongkai Chen, Lei Li, Zeyu Hu, Hongbo Fu, Chiew-Lan Tai
 - IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2021
- **JSENet: Joint Semantic Segmentation and Edge Detection Network for 3d Point Clouds**
 - Zeyu Hu, Mingmin Zhen, Xuyang Bai, Hongbo Fu, Chiew-lan Tai
 - European Conference on Computer Vision (ECCV) 2020