

EDUCATION	Peking University <i>Ph.D. in School of Electronic and Computer Engineering</i> • Advisor: Prof. Ge Li • Research area: Label Efficient 3D Vision • I am a member of the National Engineering Laboratory for Video Technology .	Shenzhen, China 2021 - 2025 (<i>expected</i>)
	Shandong University <i>M.E. in School of Computer Science and Technology</i> • Advisors: Prof. Changhe Tu and Prof. Yangyan Li • Research area: Weakly Supervised Learning, Semantic Segmentation • I was a member of the Interdisciplinary Research Center (IRC).	Qingdao, China 2018 - 2021
	Shandong University <i>B.E. in Computer Science, Taishan College</i> • Advisor: Prof. Jingliang Peng • Taishan College is the honor college of Shandong University. Our major selects less than 20 students from more than 300 undergraduates each year.	Jinan, China 2014 - 2018
PUBLICATIONS	<ol style="list-style-type: none">Zhiyi Pan, Qiong Zeng, Peng Jiang, Ge Li and Changhe Tu. Category-agnostic Semantic Edge Detection by Measuring Neural Representation Randomness. <i>Pattern Recognition</i>, 2024.Zhiyi Pan, Haochen Sun, Peng Jiang, Ge Li, Changhe Tu and Haibin Ling. CC4S: Encouraging Certainty and Consistency in Scribble-Supervised Semantic Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i>, 2024.Zhiyi Pan, Guoqing Liu, Wei Gao and Thomas H. Li. EPContrast: Effective Point-level Contrastive Learning for Large-scale Point Cloud Understanding. <i>IEEE International Conference on Multimedia and Expo</i>, 2024. (To appear.)Zhiyi Pan, Nan Zhang, Wei Gao, Shan Liu and Ge Li. Less Is More: Label Recommendation for Weakly Supervised Point Cloud Semantic Segmentation. <i>The AAAI Conference on Artificial Intelligence</i>, 2024.Nan Zhang, Zhiyi Pan, Thomas H. Li, Wei Gao and Ge Li. Improving Graph Representation for Point Cloud Segmentation via Attentive Filtering. <i>The IEEE/CVF Conference on Computer Vision and Pattern Recognition</i>, 2023.Zhiyi Pan, Peng Jiang, Yunhai Wang, Changhe Tu and Anthony G. Cohn. Scribble-Supervised Semantic Segmentation by Uncertainty Reduction on Neural Representation and Self-Supervision on Neural Eigenspace. <i>The IEEE/CVF International Conference on Computer Vision</i>, 2021.Guangnan Wu, Zhiyi Pan, Peng Jiang, and Changhe Tu. Bi-Directional Attention for Joint Instance and Semantic Segmentation in Point Clouds. <i>The Asian Conference on Computer Vision</i>, 2020.Peng Jiang, Zhiyi Pan, Changhe Tu, Nuno Vasconcelos, Baoquan Chen, and Jingliang Peng. Super Diffusion for Salient Object Detection. <i>IEEE Transactions on Image Processing</i>, 2019.	
INTERNSHIPS	Peng Cheng Laboratory . Shenzhen, China • Participate in the development of the PengCheng Mind . • Participate in Next Generation Artificial Intelligence Open Source Community and Evaluation.	2021.08 - 2024.08

PROJECTS	3D Reconstruction of Neural Mechanical Wave Radiance Fields	
	<i>National Natural Science Foundation of China (NSFC)</i>	2025.01 - 2028.12
	Key Technology Research of Next-generation Point Cloud Compression Standards for High-precision Applications	
	<i>National Natural Science Foundation of China (NSFC)</i>	2022.01 - 2025.12
	Structural Perception and Understanding of Scenes and Objects with 3D Point Cloud	
	<i>National Natural Science Foundation of China (NSFC)</i>	2021.01 - 2024.12
AWARDS AND HONORS	• Second Prize Academic Scholarship , Shandong University	2018.09
	• Outstanding Graduate Student , Shandong University	2018.09
	• First Prize Freshman Scholarship , Shandong University	2017.09
ACADEMIC SERVICES	Reviewers for: <i>IEEE Transactions on Circuits and Systems for Video Technology,</i>	
	<i>IEEE Transactions on Multimedia,</i>	
	<i>Pattern Recognition, CVPR, NeurIPS,</i>	
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