Yuxin Wen | Curriculum Vitae

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Computer Vision | 3D Deep Reconstruction | Adversarial Robustness

OVERVIEW

Being a Ph.D candidate in the fourth year of a five-year educational system in Geometric Perception and Intelligence Research (Gorilla) Lab @SCUT, under the supervision by Prof. Kui Jia, my research interests are in computer vision (to non-Euclidean data) and machine learning, with focus on robustness and generalization analysis of deep neural networks, and deep learning shape modeling and reconstruction of objects and scenes.

EDUCATION

Ph.D candidate — **South China University of Technology**
Information and Communication Engineering — *2017.09-present*
Thesis advisor: Prof. Kui Jia

Bachelor's degree — **South China University of Technology**
Department of Information Engineering (Elite Class) — *2013.09–2017.06*
GPA:3.66/4.00

RECENT PUBLICATION

[1] M. Yang, **Y. Wen**, W. Chen, Y. Chen, and K. Jia, "Deep Optimized Priors for 3D Shape Modeling and Reconstruction.", *in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.*

[2] W. Zhao*, J. Lei*, **Y. Wen**, J. Zhang, and K. Jia, "Sign-Agnostic Implicit Learning of Surface Self-Similarities for Shape Modeling and Reconstruction from Raw Point Clouds", *in IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.*

[3] **Y. Wen**, J. Lin, K. Chen, C.P. Chen, and K. Jia, "Geometry-aware generation of adversarial point clouds", *in IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2020.*

[4] **Y. Wen***, S. Li*, and K. Jia, "Towards Understanding the Regularization of Adversarial Robustness on Neural Networks", *in International Conference on Machine Learning (ICML), 2020.*

[5] K. Jia, S. Li, **Y. Wen**, T. Liu, and D. Tao. "Orthogonal deep neural networks", *in IEEE transactions on pattern analysis and machine intelligence (TPAMI), 2019.*

WORK EXPERIENCE

Research Intern — **DexForce, Guangzhou**
Serves as an algorithm engineer for 3D reconstruction and detection — *2020.05-2020.08*

Research Assistant — **University of Macau, Macau**
Serves for the FDCT Funded project — *2019.09-2020.01*

SKILLS

Proficient: Python(Pytorch) · LaTeX **Familiar:** C++ · Matlab

AWARDS

2017-20 Academic Scholarship, South China University of Technology
2018 Excellent Student Cadre, South China University of Technology