

# Yuxin Wen | Curriculum Vitae

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🌐 yuxinwen.info • 🌐 Yuxin-Wen

Computer Vision | 3D Deep Reconstruction | Adversarial Robustness

## OVERVIEW

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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

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### Ph.D candidate

Information and Communication Engineering

Thesis advisor: Prof. Kui Jia

South China University of Technology

2017.09-present

### Bachelor's degree

Department of Information Engineering (Elite Class)

GPA:3.66/4.00

South China University of Technology

2013.09–2017.06

## RECENT PUBLICATION

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- [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

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### Research Intern

Serves for DAMO Academy Research Internship program

under the supervision by Prof. Lei Zhang

Alibaba, Shenzhen

2021.06-present

### Research Intern

Serves as an algorithm engineer for 3D reconstruction and detection

DexForce, Guangzhou

2020.05-2020.08

### Research Assistant

Serves for the FDCT Funded project

University of Macau, Macau

2019.09-2020.01

## SKILLS

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**Proficient:** Python(Pytorch) · L<sup>A</sup>T<sub>E</sub>X

**Familiar:** C++ · Matlab

## AWARDS

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2017-20 Academic Scholarship, South China University of Technology

2018 Excellent Student Cadre, South China University of Technology