

# Yongwei Chen | Curriculum Vitae

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Computer Vision | 3D Vision | Multimodal Learning | Graphics

## OVERVIEW

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I am a PhD student in MMLab@NTU, supervised by Prof. Xingang Pan. Prior to this, I earned both my Master's and Bachelor's degrees at South China University of Technology (SCUT), under the mentorship of Prof. Kui Jia. My primary research interest lies in the exciting and constantly-evolving realm of 3D vision and graphics, with a particular emphasis on 3D generation.

## EDUCATION

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### PhD student

*College of Computing and Data Science*

*Supervisor: Prof. Xingang Pan*

**Nanyang Technological University**

*2024.08 – present*

### Master's Degree

*Information and Communication Engineering*

*Supervisor: Prof. Kui Jia*

**South China University of Technology**

*2020.09 – 2023.12*

### Bachelor's degree

*School of Electronic and Information Engineering*

*GPA: 3.92/4.00, rank 3/242*

**South China University of Technology**

*2016.09 – 2020.06*

## SELECTED PUBLICATIONS

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- [1] **Y. Chen**, Y. Lan, S. Zhou, T. Wang and X. Pan, "SAR3D: Autoregressive 3D Object Generation and Understanding via Multi-scale 3D VQVAE.", in *Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [2] **Y. Chen\***, T. Wang\*, T. Wu, X. Pan, K. Jia and Z. Liu, "ComboVerse: Compositional 3D Assets Creation Using Spatially-Aware Diffusion Guidance.", in *European Conference on Computer Vision (ECCV)*, 2024.
- [3] R. Chen\*, **Y. Chen\***, N. Jiao and K. Jia, "Fantasia3D: Disentangling Geometry and Appearance for High-quality Text-to-3D Content Creation.", in *International Conference on Computer Vision (ICCV)*, 2023.
- [4] **Y. Chen**, R. Chen, J. Lei, Y. Zhang and K. Jia, "TANGO: Text-driven Photorealistic and Robust 3D Stylization via Lighting Decomposition.", in *Advances in Neural Information Processing Systems (NeurIPS)*, 2022. *spotlight*
- [5] **Y. Chen\***, Z. Wang\*, L. Zou, K. Chen, and K. Jia, "Quasi-Balanced Self-Training on Noise-Aware Synthesis of Object Point Clouds for Closing Domain Gap.", in *European Conference on Computer Vision (ECCV)*, 2022.

## WORK EXPERIENCE

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### Research Intern

**Dexforce, Shenzhen**

*2021.11 – 2023.09*

### Research Intern

**Shanghai AI Laboratory, Shanghai**

*2023.09 – 2024.01*

## SKILLS

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**Proficient:** Python (Pytorch), Blender,  $\text{\LaTeX}$

**Familiar:** C++, CUDA

## AWARDS

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<b>Samsung Scholarship</b> , South China University of Technology	<i>2018.03</i>
<b>National Scholarship</b> , South China University of Technology	<i>2018.11</i>
<b>National Scholarship</b> , South China University of Technology	<i>2019.12</i>