

XINGGUANG YAN

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RESEARCH STATEMENT

My research is focused on how to efficiently represent, process and generate 3D data, spanning the fields of computer graphics, computer vision and machine learning. Recent advances of deep unsupervised learning methods (such as GANs, autoregressive models and score-based models) has unlocked remarkable success on generating text and images, and I am interested in harnessing the potential of these techniques to synthesize high-quality 3D objects and scenes, which also require more efficient 3D representations.

EDUCATION

Shenzhen University 2018.09 - 2021.06

Computer Science, M.Eng.

Supervisor: *Prof. Hui Huang*

Thesis: Multimodal Shape Completion

University College London 2019.06 - 2019.10

Academic visit

Supervisor: *Prof. Niloy Mitra*

Fujian Normal University 2014.09 - 2018.06

Information and Computing Science, B.Sc.

PUBLICATION

ShapeFormer: Transformer-based Shape Completion via Sparse Representation 2021

Currently under review (first author)

RPM-Net: Recurrent Prediction of Motion and Parts from Point Cloud, 2019.11

Zihao Yan, Ruizhen Hu, **Xingguang Yan**, Luanmin Chen, Oliver van Kaick, Hao Zhang, Hui Huang
ACM Transactions on Graphics (Proc. SIGGRAPH Asia), 2019

Transductive Zero-Shot Learning with Visual Structure Constraint, 2019.11

Ziyu Wan, Dongdong Chen, Yan Li, **Xingguang Yan**, Junge Zhang, Yizhou Yu, Jing Liao
Neural Information Processing Systems (NeurIPS), 2019

TECHNICAL SKILLS

- Programming languages: **C/C++**, **Python**, JavaScript, Mathematica, Matlab
- Tools: **Pytorch**, Tensorflow, **libigl**, **Blender**, Eigen, OpenGL, ROS, Gazebo, SLAM, WebGL, three.js, node.js

LANGUAGE

Mandarin, English (TOEFL 103)

TEACHING

- Introduction to visual computing @ Shenzhen University, 2019 [*course website*]
Teaching assistant

MISC

- I like endurance sports and have finished 1 full-Marathon, 6 half-Marathon and 1 triathlon.
- I won a Bronze medal in National Olympiad in Informatics 2013 (NOI, China)