

Siming Yan

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EDUCATION

Ph.D. Student

Sep. 2019 - now

The University of Texas at Austin; Advisor: Qixing Huang

B.S. in Computer Science

Sep. 2015 - Jun. 2019

Peking University

RESEARCH INTEREST

3D Pretraining; 3D Unsupervised/Self-supervised Learning; Large-scale Vision Language Model; 3D Shape Analysis; Point Cloud Processing

RESEARCH EXPERIENCES

Nvidia, Research Intern

Oct. 2023 - Jan. 2024

Mentor: Yue Wang, Xinshuo Weng, Marco Pavone

Amazon AWS AI, Applied Scientist Intern

Jun. 2023 - Sep. 2023

Mentor: Min Bai, Erran Li

Microsoft Research Asia, Research Intern

May. 2022 - Nov. 2022

Mentor: Yang Liu, Xin Tong

Wormpex AI Research, Research Intern

Jun. 2021 - Oct. 2021

Mentor: Haoxiang Li, Gang Hua

Kwai Technology, Research Intern

Jun. 2020 - Oct. 2020

Mentor: Chongyang Ma

Stanford University, Research Assistant

Mar. 2018 - Oct. 2018

Advisor: Daniel L. K. Yamins

Carnegie Mellon University, Research Assistant

Jun. 2018 - Oct. 2018

Advisor: Tai-Sing Lee

University of California, Los Angeles, Research Assistant

Jun. 2017 - Sep. 2017

Advisor: Debiao Li

PUBLICATIONS

ViGoR: Improving Visual Grounding of Large Vision Language Models with Fine-Grained Reward Modeling. In Preprint.

Siming Yan, Min Bai, Weifeng Chen, Xiong Zhou, Erran Li, Qixing Huang.

Multi-View Representation is What You Need for Point-Cloud Pre-Training. In **ICLR 2024**.

Siming Yan, Chen Song, Youkang Kong, Qixing Huang.

3D Feature Prediction for Masked-AutoEncoder-Based Point Cloud Pretraining. In **ICLR 2024**.

Siming Yan, Yuqi Yang, Yuxiao Guo, Hao Pan, Peng-shuai Wang, Xin Tong, Yang Liu, Qixing Huang.

Implicit Autoencoder for Point-Cloud Self-Supervised Representation Learning. In **ICCV 2023**. Code.

Siming Yan, Zhenpei Yang, Haoxiang Li, Li Guan, Hao Kang, Gang Hua, Qixing Huang.

HPNet: Deep Primitive Segmentation Using Hybrid Representations. In **ICCV 2021**. [Code](#).

Siming Yan, Zhenpei Yang, Chongyang Ma, Haibin Huang, Etienne Vouga, Qixing Huang.

Extreme Relative Pose Network under Hybrid Representations. In **CVPR 2020 (Oral Presentation)**. [Code](#).

Zhenpei Yang*, **Siming Yan***, Qixing Huang. (* indicates equal contribution)

Unsupervised Neural Network Models of the ventral visual stream. In Proceedings of the National Academy of Sciences (**PNAS**) Vol. 118(3).

Chengxu Zhuang, **Siming Yan**, Aran Nayebi, Martin Schrimpf, Michael C. Frank, James J. DiCarlo, Daniel L. K. Yamins.

Calcium Removal from Cardiac CT Images Using Deep Convolutional Neural Network. In **ISBI 2018 (Oral Presentation)**.

Siming Yan, Feng Shi, Yuhua Chen, Damini Dey, Sang-Eun Lee, Hyuk-Jae Chang, Debiao Li, Yibin Xie.

Scene Synthesis via Uncertainty-Driven Attribute Synchronization. In **ICCV 2021**. [Code](#).

Haitao Yang, Zaiwei Zhang, **Siming Yan**, Haibin Huang, Chongyang Ma, Yi Zheng, Chandrajit Bajaj and Qixing Huang.

PROFESSIONAL ACTIVITIES

Reviewers: CVPR 2024, ICCV 2023, CVPR 2023, ECCV 2022, CVPR 2022, SIGGRAPH Asia 2022, CVPR 2021, ICCV 2021, TPAMI, TVCG, TMM, MVAP

AWARDS AND HONORS

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| Outstanding Graduates of Peking University(top 10%) | Sep. 2019 |
| National Encouragement Scholarship (3 times) | 2017 - 2019 |
| Selected Member of Top-Notch Class of Peking University(top 10%) | 2017 - 2019 |
| Distinguished Student of Peking University | Oct. 2018 |
| Annual Outstanding Research Award of Peking University | Oct. 2018 |
| National athletes and level five in amateur for Go (Weiqi) | Sep. 2015 |