Fenggen Yu

CONTACT INFORMATION

School of Computing Science ,Simon Fraser University, BC, Canada

Homepage: https://fenggenyu.github.io *E-mail*: fenggen_yu@sfu.ca

RESEARCH INTERESTS

Computer Graphics, and Computer Vision

3D Geometric Modeling and Geometric Deep Learning

EDUCATION

Ph.D., Computing Science, Simon Fraser University, 2019-2023(Expected)

Master, Computer Science & Technology, Nanjing University, 2016-2019

Bachelor, Computer Science & Technology, Nanjing University, 2012-2016

INDUSTRY EXPERIENCE

Amazon, AI researcher internship, 2022 June-2022 Nov.

Meta, AI researcher internship, 2021 Sep-2022 March.

Huawei Technologies, AI researcher internship, 2021 May-2021 August.

Autodesk AI Lab, Research collaboration, 2020 June-2021 March.

HONORS AND GRANDS

SFU Graduate Fellowships, 2019-2020,2020-2021

SFU Graduate Dean's Entrance Scholarship, 2019(Top 3%)

The National Scholarship of Graduate Student, 2018(Top 3%)

Excellent Graduate Student of Nanjing University, 2017(Top 10%)

Excellent Undergraduate Student of Nanjing University, 2016(Top 10%)

The National Scholarship of Undergraduate Student, 2015(Top 3%)

Selected PUBLICATIONS

1. **Fenggen Yu,** Qimin Chen, Maham Tanveer, Ali Mahdavi-Amiri, Hao Zhang, "DualCSG: Learning Dual CSG Trees for General and Compact CAD Modeling", Submitted to CVPR 2023
2. **Fenggen Yu**, Yiming Qian, Francisca Gil-Ureta, Brian Jackson, Eric Bennett, Hao Zhang, "HAL3D: Hierarchical Active Learning for Fine-Grained 3D Part Labeling", Submitted to CVPR 2023
3. **Fenggen Yu**, Zhiqin Chen, Manyi Li, Aditya Sanghi, Hooman Shayani, Ali Mahdavi-Amiri, and

Hao Zhang,

"CAPRI-Net: Learning Compact CAD Shapes with Adaptive Primitive Assembly",

CVPR 2022

4. Ali Mahdavi-Amiri, **Fenggen Yu**, Haisen Zhao, Adriana Schulz, and Hao Zhang, "VDAC:Volume Decompose-and-Carve for Subtractive Manufacturing",

   SIGGRAPH Asia, 2020

5. **Fenggen Yu**, Kun Liu, Yan Zhang, Chengyang Zhu, Kai Xu,

   "PartNet: A Recursive Part Decomposition Network for Hierarchical Segmentation of 3D Shapes."

   Computer Vision and Pattern Recognition (CVPR 2019)

6. **Fenggen Yu,** Yan Zhang, Kai Xu, Ali Mahdavi-Amiri, Hao Zhang,

   "Semi-Supervised Co- Analysis of 3D Shape Styles from Projected Lines,"

   ACM Trans. On Graphics (presented at SIGGRAPH 2018)

7. PanPan Shui, Pengyu Wang, **Fenggen Yu**, Bingyang Hu, Yuan Gan, Kun Liu, Yan Zhang, "3D Shape Segmentation Based on Viewpoint Entropy and Projective Fully Convolutional Networks Fusing Multi-view Features,"

   International Conference on Pattern Recognition(ICPR 2018)

8. Pengyu Wang, Yuan Gan, Panpan Shui, **Fenggen Yu**, Yan Zhang, Songle Chen, Zhengxing Sun,

   "3D Shape Segmentation via Shape Fully Convolutional Networks,"

   International Conference on Computer-Aided Design and Computer Graphics 2017

SERVICES [Reviewer] TVCG, TPAMI, CVPR, Computers & Graphics

TEACHING Spring 2021 - CMPT 743 G101 practices in visual computing II, at SFU

SKILLS AND INTERESTES Matlab, Python, C++, C#, Java
Pytorch, Tensorflow, OpenGL,