Yushi Lan | Curriculum Vitae

lanyushi15@gmail.com
(+86) 18632130016 | https://nirvanalan.github.io/

EDUCATION

School of Computer Science and Engineering, Nanyang Technological University (NTU) *08/2020-Present*

Ph.D. in Computer Science, Multi-Media Lab (MMLab) at NTU

Main Advisor: Prof. Chen Change Loy

Beijing University of Posts and Telecommunications (BUPT) *08/2016-07/2020*

B.E. in Software Engineering, Overall GPA: 3.85/4.0, Major GPA：3.9/4.0

Affiliated with Ye-PeiDa Honors College (Top 1% of 3600 undergraduates)

RESEARCH INTERESTS

Neural rendering, 3D Generative Model, 3D avatar, Shape Analysis, Inverse Graphics.

PUBLICATIONS

Yushi Lan, Fangzhou Hong, Shuai Yang, Shangchen Zhou, Xuyi Meng, Bo Dai, Xingang Pan, Chen Change Loy, "GaussianAnything: Interactive Point Cloud Latent Diffusion for 3D Generation", *International Conference on Learning Representations (ICLR) 2025.*

Yongwei Chen, **Yushi Lan**, Shangchen Zhou, Tengfei Wang, Xingang Pan, "SAR3D: Autoregressive 3D Object Generation and Understanding via Multi-scale 3D VQVAE*", The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)* 2025

Yihang Luo, Shangchen Zhou, **Yushi Lan**, Xingang Pan, Chen Change Loy, "3DEnhancer: Consistent Multi-View Diffusion for 3D Enhancement", *The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)* 2025

Zhaoxi Chen, Jiaxiang Tang, Yuhao Dong, Ziang Cao, Fangzhou Hong, **Yushi Lan**, Tengfei Wang, Haozhe Xie, Tong Wu, Shunsuke Saito, Liang Pan, Dahua Lin, Ziwei Liu, "3DTopia-XL: Scaling High-quality 3D Asset Generation via Primitive Diffusion", *The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)* 2025

Yushi Lan, Fangzhou Hong, Shuai Yang, Shangchen Zhou, Xuyi Meng, Bo Dai, Xingang Pan, Chen Change Loy, "LN3Diff: Scalable Latent Neural Fields Diffusion for Speedy 3D Generation", *European Conference on Computer Vision (ECCV) 2024.*

Yushi Lan, Feitong Tan, Di Qiu, Qiangeng Xu, Kyle Genova, Zeng Huang, Sean Fanello, Rohit Pandey, Thomas Funkhouser, Chen Change Loy, Yinda Zhang, **"**Loc3Diff: Local Diffusion for 3D Human Head Synthesis and Editing", *European Conference on Computer Vision (ECCV) 2024.*

Songlin Yang, Wei Wang, **Yushi Lan**, Xiangyu Fan, Bo Peng, Lei Yang, Jing Dong, "Learning Dense Correspondence for NeRF-Based Face Reenactment" *(AAAI) 2024*

Junzhe Zhang*, **Yushi Lan***, Shuai Yang, Fangzhou, Hong, Quan Wang, Chai Kiat Yeo, Ziwei Liu, Chen Change Loy, **"**DeformToon3D: Deformable 3D Toonification from Neural Radiance Fields", *The International Conference on Computer Vision (ICCV) 2023*

Yushi Lan, Xuyi Meng, Shuai Yang, Chen Change Loy, Bo Dai, "GAN-Supervised Geometry-Aware Encoder for Style-Based 3D GAN Inversion", *The IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR) 2023*

Fangzhou Hong, Zhaoxi Chen, **Yushi Lan**, Liang Pan, Ziwei Liu, "EVA3D: Compositional 3D Human Generation From 2D Image Collections", *The International Conference on Learning Representations (ICLR) Spotlight 2023*

Yushi Lan, Chen Change Loy, Bo Dai, "Correspondence Distillation from NeRF-based GAN", *International Journal of Computer Vision (IJCV) 2022*

Yushi Lan, Yuan Liu, Xinchi Zhou, Maoqing Tian and Hongsheng Li, "MagnifierNet: Towards Semantic Adversary and Fusion for Person Re-identification", *The British Machine Vision Conference (BMVC) 2020*

PREPRINTS

Zhouxia Wang, **Yushi Lan**, Shangchen Zhou, Chen Change Loy, "ObjCtrl-2.5D: Training-free Object Control with Camera Poses", *arXiv* 2024

Honghua Chen, **Yushi Lan**, Yongwei Chen, Yifan Zhou, Xingang Pan, "MVDrag3D: Drag-based Creative 3D Editing via Multi-

view Generation-Reconstruction Prior", *arXiv* 2024

EXPERIENCES

Research Intern, Google AR **Mountain View & Waterloo**

Mentor: Dr. Yinda Zhang. Teams: Dr. Feitong Tan and Dr. Kyle Genova and Prof. Thomas A. Funkhouser. *07/2023 –12/2023*

- Research on conditional, fine-grained and animatable diffusion model of 3D avatar via 3D neural gaussians.

MMLab@NTU | PhD Candidate **Singapore**

Advisor: Prof. Chen Change Loy *08/2020 – Present*

- Research on improving the generalization of neural scene representations.

Research Intern, MSRA (System Research Group) **Beijing**

Advisor: Hui Xue *11/2019 – 05/2020*

- Researching on Efficient Optimization of Graph Convolution Network on Large Graphs.

Research Assistant, Computational Visualization Center **UT Austin**

Advisor: Prof. Chandrajit Bajaj *07/2019 -11/2019*

- Research on Hierarchical ResUnet for Semantic Segmentation on microscopy cell and tissues.

Research Intern, SenseTime Research **Beijing**

Advisor: Dr. Shuai Yi. Teams: Prof. Hongsheng Li *03/2019-11/2019*

- Research on the representation alignment in the task of cross-camera person retrieval (ReID) using semantic regularizations.

Bachelor Thesis, Data Intelligence Group (DIG) **BUPT**

Advisor: Asst Prof. Yinxia Shao *10/2019 –05/2020*

- Research on Community Detection with Dynamic Graph Convolution Networks.

Exchange Student, Wolfson College **University of Cambridge**

BUPT - Cambridge University exchange program (Top 0.5% of 3600 undergraduates) *08/2018*

AWARDS

Meshy Outstanding Fellowship (5,000 USD, 8 recipients worldwide) 2025

Academic Outstanding Scholarship, Top 5% of BUPT for 3 consecutive years *2016-2019*

National Award, BUPT Undergraduate Research Innovative Projects (top 2%) *2019*

Finalist, China College Student's Innovation Competition (top 5%) *2018*

Scholarship, Ansheng.Wang Foundation Elite Award (top 5%) *2017*

OTHER SERVICES

- Technical paper reviewer
  - Computer Vision and Pattern Recognition (CVPR)
  - European Conference on Computer Vision (ECCV)
  - International Conference on Computer Vision (ICCV)
  - International Conference on Learning Representations (ICLR)
  - Conference on Neural Information Processing Systems (Neurips)
  - International Conference on Machine Learning (ICML)
  - ACM SIGGRAPH
  - International Conference on Artificial Intelligence and Statistics (AISTATS)
  - AAAI Conference on Artificial Intelligence (AAAI)
- Teaching Assistant
  - CZ3001: Advanced Computer Architecture, NTU Fall 2021 – 2022
  - CE7491: Digital Image Processing, NTU Fall 2021 – 2022
  - CE7454: Deep Learning, NTU Spring 2021