

# Yushi Lan | Curriculum Vitae

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## EDUCATION

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

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

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

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

## PUBLICATIONS

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**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, “Gaussian3Diff: 3D Gaussian Diffusion for 3D Full 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, Xinchu Zhou, Maoqing Tian and Hongsheng Li, “MagnifierNet: Towards Semantic Adversary and Fusion for Person Re-identification”, *The British Machine Vision Conference (BMVC) 2020*

## EXPERIENCES

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

*Mentor: Dr. Feitong Tan. Teams: Dr. Yinda Zhang 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**

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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**

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➤ 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