YUNSONG WANG

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EDUCATION

National University of Singapore, Singapore Aug 2022 – Now

Doctor of Philosophy, Computer Science | GPA 4.67/5.0 | Advisor: Prof. Gim Hee Lee

National University of Singapore, Singapore Jan 2021 – July 2022

Master of Computing, Dissertation-based | GPA: 5.0/5.0

Tsinghua University, Beijing, China Aug 2016 – July 2020

B. Eng in Automation | Overall GPA:3.48/4.0 (WES iGPA: 3.60/4.0) 86.0/100 Senior GPA**:** 3.76/4.0 (Top 20%)

RESEARCH INTERESTS

I am interested in Computer Vision, specifically in 3D Vision. I am currently focused on Gaussian Splatting, Neural Radiance Field, and LLM-assisted 3D Scene Understanding. I'm also interested in improving the model's generalization ability across diverse 3D scenes.

AWARDS

- NUS Research Achievement Award Aug 2024
- NUS IMDA Excellence In Computing Prize 2022 for most outstanding graduate June 2022
- Academic Excellence Award, Tsinghua University Oct 2019
- Academic Advancement Scholarship, Tsinghua University Oct 2019
- Honorable Mention Award in American Mathematical Contest in Modeling Apr 2019

PUBLICATIONS

- Hanlin Chen, Fangyin Wei, Chen Li, Tianxin Huang, **Yunsong Wang**, Gim Hee Lee. VCR-GauS: View Consistent Depth-Normal Regularizer for Gaussian Surface Reconstruction. **NeurIPS 2024.**
- **Yunsong Wang**, Tianxin Huang, Hanlin Chen, Gim Hee Lee. FreeSplat: Generalizable 3D Gaussian Splatting Towards Free View Synthesis of Indoor Scenes. **NeurIPS 2024.**
- **Yunsong Wang**, Na Zhao, Gim Hee Lee. Syn-to-Real Unsupervised Domain Adaptation for Indoor 3D Object Detection. **BMVC 2024.**
- **Yunsong Wang**, Hanlin Chen, Gim Hee Lee. GOV-NeSF: Generalizable Open-Vocabulary Neural Semantic Fields. **CVPR 2024**.
- **Yunsong Wang**, Na Zhao, Gim Hee Lee. Enhancing Generalizability of Representation Learning for Data-Efficient 3D Scene Understanding. **3DV 2024 Oral**.
- Pengzhan Sun, Kerui Gu, **Yunsong Wang**, Linlin Yang, Angela Yao. Rethinking Visibility in Human Pose Estimation: Occluded Pose Reasoning via Transformers. **WACV 2024 Oral**.
- Ziwei Wang, **Yunsong Wang**, Ziyi Wu, Jiwen Lu, Jie Zhou. Instance Similarity Learning for Unsupervised Feature Representation. **ICCV 2021**.

SKILLS

Programming Languages: Python, MATLAB, C++, Java

Deep Learning Frameworks: PyTorch, TensorFlow, Keras

Language: TOEFL(107), GRE(325)