




Yihang Chen

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Education

Shanghai Jiao Tong University, Ph.D Candidate (Joint Ph.D program with **Monash University**) **Shanghai, China**
Information and Communication Engineering, SEIEE Sept. 10, 2021 – Jun. 30, 2026 (expected)

Dalian University of Technology, Bachelor of Engineering Degree, top 5% **Dalian, China**
Electronic Information Engineering (English Intensive), SICE Sept. 01, 2017 – Jun. 21, 2021

Research Interests

3D reconstruction: Familiar with NeRF/3DGS. Knowledge with NeRF and 3DGS in static and dynamic scenes, feedforward-based 3DGS (such as MVSplat, LGM, GS-LRM, etc.), and large-scene reconstruction.

Compression/Coding: Familiar with deep-learning-based compression of 3D representations, images and videos. Focus on NeRF/3DGS compression.

Work Experience

NVIDIA Research, Research Intern May 05, 2025 – July 25, 2025 **Santa Clara, USA**
ByteDance, Research Intern Feb. 22, 2021 – Aug. 24, 2021 **Beijing, China**

Publication List

3D Radiance Field + Compression

- **Yihang Chen***, Mengyao Li*, Qianyi Wu, Weiyao Lin, Mehrtash Harandi, Jianfei Cai, “PCGS: Progressive Compression of 3D Gaussian Splatting”, **ARXIV 2025, under review**.
- **Yihang Chen**, Qianyi Wu, Weiyao Lin, Mehrtash Harandi, Jianfei Cai, “HAC++: Towards 100X Compression of 3D Gaussian Splatting”, **ARXIV 2025, under review**.
- **Yihang Chen**, Qianyi Wu, Mengyao Li, Weiyao Lin, Mehrtash Harandi, Jianfei Cai, “Fast Feedforward 3D Gaussian Splatting Compression”, **ICLR 2025**.
- **Yihang Chen**, Qianyi Wu, Weiyao Lin, Mehrtash Harandi, Jianfei Cai, “HAC: Hash-grid Assisted Context for 3D Gaussian Splatting Compression”, **ECCV 2024**.
- **Yihang Chen**, Qianyi Wu, Mehrtash Harandi, Jianfei Cai, “How Far Can We Compress Instant-NGP-Based NeRF?”, **CVPR 2024**.

Image Compression

- Shizhan Liu, Weiyao Lin, **Yihang Chen**, Yufeng Zhang, Wenrui Dai, John See, Hongkai Xiong, “A Unified Framework for Jointly Compressing Visual and Semantic Data”, **ACM TOMM 2024**.

Others

- Tieyuan Chen, Huabin Liu, Yi Wang, **Yihang Chen**, Tianyao He, et al., “MECD+: Unlocking Event-Level Causal Graph Discovery for Video Reasoning”, **ARXIV 2025, under review**.
- Tieyuan Chen*, Huabin Liu*, Tianyao He, **Yihang Chen**, Chaofan Gan, et al., “MECD: Unlocking Multi-Event Causal Discovery in Video Reasoning”, **NIPS 2024, spotlight**.

- Zhenyu Xie, Zelin Ni, Wenjie Yang, Yuang Zhang, **Yihang Chen**, Yang Zhang, Xiao Ma, “A Robust Online Multi-Camera People Tracking System With Geometric Consistency and State-aware Re-ID Correction”, **CVPR Workshop 2024**.
- **Yihang Chen**, Weijie Dong, Yongping Xie, “A dual realization of Chua’s chaotic oscillator using a current-controlled nonlinear resistor”, **ICCS 2021**.

Patent & Proposal

- Weiyao Lin, **Yihang Chen**, Jianfei Cai, Mehrtash Harandi, Qianyi Wu, “An Instant-NGP model compression method based on context model”, **Chinese Patent, under review**.
- **Yihang Chen**, Weiyao Lin, “Coding context prediction using hyperprior”, **Tech Proposal, IEEE 1857.11 Standard**.

Awards

National Scholarship, top 5% in the School

Nov. 2018, **China**

Tolybread Scholarship (*higher than National Scholarship*), top 1 in the School

Nov. 2019, **China**

Skills

Programming: Python (Pytorch), C/C++, CUDA, LaTeX

Language: Chinese (native), English