




# 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*

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## Work Experience

**ByteDance**, Research Intern, *Feb. 22, 2021 – Aug. 24, 2021*      **Beijing, China**

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## Publication List

### 3D Radiance Field + Compression

- **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

- Tiejuan 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*.
- Tiejuan 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*.
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## 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**

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## Skills

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

**Language:** Chinese (native), English