

Chaofan Gan, Ph.D Candidate

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Education

- 2022 – 2027 **Ph.D Candidate, Shanghai Jiao Tong University** (Joint Ph.D program with **Monash University**), Information and Communication Engineering, SEIEE.
- 2018 – 2022 **Bachelor, Huazhong University of Science and Technology**, Software Engineering.

Work Experience

- 2022 – 2023 **Research Intern**, Multimedia Comprehension Group in Tencent PCG.
Research Interests: *Video Understanding, Image Caption.*

Research Publications

Diffusion Transformers

- Chaofan Gan, Yuanpeng Tu, Xi Chen, Mehrtash Harandi, Weiyao Lin, *et al.* "**Massive Activations are the Key to Local Detail Synthesis in Diffusion Transformers**", (Under Review 2025).
- Chaofan Gan, Yuanpeng Tu, Mehrtash Harandi, Weiyao Lin, *et al.* "**Unleashing Diffusion Transformers for Visual Correspondence by Modulating Massive Activations**", (NeurIPS 2025).

Noisy Label Learning

- Chaofan Gan, Yuanpeng Tu, Yuxi Li, Weiyao Lin, "**DAC: 2D-3D Retrieval with Noisy Labels via Divide-and-Conquer Alignment and Correction**", (ACMMM 2024).
- Gui Zou, Chaofan Gan, Chern Hong Lim, Supavadee Aramvith, Weiyao Lin, "MCA: 2D-3D Retrieval with Noisy Labels via Multi-level Adaptive Correction and Alignment", (ICMEW 2025).

Video Understanding

- Tieyuan Chen, Huabin Liu, Tianyao He, Yihang Chen, Chaofan Gan, Xiao Ma, *et al.*, "MECD: Unlocking multi-event causal discovery in video reasoning", (NeurIPS 2024 spotlight).
- Tieyuan Chen, Huabin Liu, Yi Wang, Yihang Chen, Tianyao He, Chaofan Gan, *et al.*, "MECD+: Unlocking Event-Level Causal Graph Discovery for Video Reasoning", (Under Review 2025).

Competitions and Awards

- 2022 **1st place** of Multi-object tracking in optical satellite video, (5TH Gaofen Challenge, leader).
- 2020 **International Third Prize** of Mathematical Contest in Modeling.
- 2019 National Inspirational Scholarship (**Top 3%**).

Skills

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|----------------------|---|
| Languages | Chinese (native), English. |
| Coding | Python (Pytorch), C/C++, Java, LaTeX, ... |
| Distributed Training | Megatron-LM, DeepSpeed. |