

Junsong Chen

Github: <https://lawrence-cj.github.io/>

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EDUCATION

- **The University of Hong Kong (HKU)** Hong Kong SAR, China
Ph.D. Student - Computing and Data Science Sep. 2025 - Sep. 2028
Research Interests: Algorithm and system co-design for efficient AIGC.
- **Dalian University of Technology** Dalian, China
M.Phil - Information and Communication Engineering Jul. 2021 - Dec. 2024
Research Interests: visual AIGC, Large Language Model, Navigation and autonomous driving
- **Dalian University of Technology** Dalian, China
Bachelor - Mechanical Engineering Sep. 2017 - Jul. 2021

PUBLICATIONS

- **SANA-Video: Efficient Video Generation with Block Linear Diffusion Transformer:** Junsong Chen*, Yuyang Zhao*, Jincheng Yu*, Ruihang Chu, Junyu Chen, Shuai Yang, Xianbang Wang, Yicheng Pan, Daquan Zhou, Huan Ling, Haozhe Liu, Hongwei Yi, Hao Zhang, Muyang Li, Yukang Chen, Han Cai, Sanja Fidler, Ping Luo, Song Han, Enze Xie
In Submission, 2025. [Paper](#) | [Page](#) | [GitHub](#)
- **SANA-Sprint: One-Step Diffusion with Continuous-Time Consistency Distillation:** Junsong Chen*, Shuchen Xue*, Yuyang Zhao, Jincheng Yu, Sayak Paul, Junyu Chen, Han Cai, Song Han, Enze Xie
Highlight, ICCV 2025. [Paper](#) | [Page](#) | [GitHub](#)
- **SANA-1.5: Efficient Scaling of Training-Time and Inference-Time Compute in Linear Diffusion Transformer:** Enze Xie*, Junsong Chen*, Yuyang Zhao, Jincheng Yu, Ligeng Zhu, Yujun Lin, Zhekai Zhang, Muyang Li, Junyu Chen, Han Cai, Bingchen Liu, Daquan Zhou, Song Han
ICML 2025. [Paper](#) | [Page](#) | [GitHub](#)
- **SANA: Efficient High-Resolution Image Synthesis with Linear Diffusion Transformer:** Enze Xie*, Junsong Chen*, Junyu Chen, Han Cai, Haotian Tang, Yujun Lin, Zhekai Zhang, Muyang Li, Ligeng Zhu, Yao Lu, Song Han
Oral, ICLR 2025. [Paper](#) | [Page](#) | [GitHub](#)
- **PixArt- Σ : Weak-to-Strong Training of Diffusion Transformer for 4K Text-to-Image Generation:** Junsong Chen*, Chongjian Ge*, Enze Xie*†, Yue Wu*, Lewei Yao, Xiaozhe Ren, Zhongdao Wang, Ping Luo, Huchuan Lu, Zhenguo Li
ECCV 2024. [Paper](#) | [Page](#) | [GitHub](#)
- **PixArt- α : Fast Training of Diffusion Transformer for Photorealistic Text-to-Image Synthesis:** Junsong Chen*, Jincheng Yu*, Chongjian Ge*, Lewei Yao*, Enze Xie†, Yue Wu, Zhongdao Wang, James Kwok, Ping Luo, Huchuan Lu, Zhenguo Li
Spotlight, ICLR 2024. [Paper](#) | [Page](#) | [GitHub](#)
- **MetaBEV: Solving Sensor Failures for BEV Detection and Map Segmentation:** Chongjian Ge*, Junsong Chen*, Enze Xie*, Lanqing Hong, Zhongdao Wang, huchuan Lu, Ping Luo
ICCV 2023. [Paper](#) | [Page](#) | [GitHub](#)

HONORS AND AWARDS

- Outstanding graduates of the Province, 2020-2021
- National scholarship, 2018-2019
- 9k+ GitHub Stars, 2023-2025

EXPERIENCE

- **NVIDIA Research** Remote, US
Research Intern May. 2024 - Present
 - **Work Duty:** Conduct researches related to Image/Video AIGC foundation model and Large language model (LLM).
 - **Project Details:** I am currently learning and working on efficient AI Systems & Algorithm co-design on both training and inference.
- **The University of Hong Kong (HKU)** Hong Kong, China
Research Assistant Nov. 2022 - April. 2024
 - **Work Duty:** Conduct researches related to 2D/3D AIGC foundation model and Large language model (LLM).
 - **Project Details:** I am currently working on efficient training of the Text-to-Image foundation model.

ACADEMIC SERVICE

- **Conference Review:** Neurips, ICML, ICLR

SKILLS

- **Programming Languages:** Python, CUDA