

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
Master - 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-Sprint: One-Step Diffusion with Continuous-Time Consistency Distillation:**
Junsong Chen*, Shuchen Xue*, Yuyang Zhao, Jincheng Yu, Sayak Paul, Junyu Chen, Han Cai, Enze Xie†, Song Han
In Submission. [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](#)
- **ARKitTrack: A New Diverse Dataset for Tracking Using Mobile RGB-D Data:**
Haojie Zhao*, **Junsong Chen***, Lijun Wang, Huchuan Lu
CVPR 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** Beijing, China
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