

# 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. Candidate - Computer 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: 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