Junsong Çhen

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Github: https://junsongc.top/

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
  Oral, **ICLR** 2026. 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

- Tencent Project Up Scholarship (50W RMB, 15 students in China) 2026
- KAUST AI Raising Star (25 speakers over the world) 2026
- 10k+ GitHub Stars 2025
- Outstanding graduates of the Province 2022
- National scholarship 2019

Experience

- **NVIDIA Research** — Remote, US
  Research Intern — *May. 2024 - Present*
  - **Work Duty**: Conduct research 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 research 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-2025, ICML-2025, ICLR-2025, ICCV-2025, ICLR-2026, CVPR-2026
- **Journal Review**: TPAMI

Skills

Programming Languages: Python, CUDA