Junsong Çhen

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

EDUCATION

- **Dalian University of Technology** — Dalian, China
  Master and Ph.D. Candidate - Information and Communication Engineering — *July 2021 - Present*
  Research Interests: *Algorithm and system co-design for efficient AIGC.* Expected Graduation: Jan 2025

- **The University of Hong Kong (HKU)** — Hong Kong, China
  Research Assistance - Computer Science — *April 2023 - April 2024*
  Research Interests: *visual AIGC, Large Language Model, Navigation and autonomous driving*

- **Dalian University of Technology** — Dalian, China
  Bachelor - Mechanical Engineering — *Sep. 2017 – July 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