Kaixin Ding

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EDUCATION

Zhejiang University   Hangzhou, China

B.Eng. in Computer Science (Overall GPA: 3.95/4.00 (90.1/100), top 2%)   Sep. 2021 - Jun. 2025(expected)

- Zhejiang Provincial Government Scholarship & First-class Scholarship for last 3 years (top 1%)
- Championship of IndySCC, the international Supercomputing Competition (top 1%), ASC second prize (top 10%)
- Innovation and Entrepreneurship Model & Social Practice Scholarship & Outstanding Student Leader Title & Model of Literary and Sports Activities for 2 years (top 15%)
- Outstanding Student Title for 3 years & Second Prize in Mathematical Modeling Competition & Second Prize in Zhejiang mathematics competition & Second Prize in national college math competition (top 20%)
- Five-star Youth Volunteer Title

RESEARCH and COMPETITION EXPERIENCE

The University of Hong Kong　（CVAIL Group）   Hong Kong

Research Assistant, Advisor: Prof. Hengshuang Zhao   Jun. 2024 – Sep.2024

Research on Image and Video Consistency Generation based on DiT model

- Understanding and hands-on practice of various cutting-edge models for video generation
- Learning different advanced storytelling methods and migrating them to DiT Model
- Engaged in discussions with mentors, shared insights and weekly literature review

Zhejiang University　（DCD lab）   Hangzhou, China

Research Assistant, Advisor: Prof. Xi Li   Sep. 2022 - Jun. 2023

Research on Reference Guided Image-to-Image Generation

- Comprehensive understanding of the entire process of scientific research
- Significantly enhanced team communication and interpersonal skills as a team leader.
- Engaged in practical applications within the field of image generation and style fusion, making innovative modifications.

Zhejiang University（Zhejiang University Supercomputing Club）   Hangzhou, China

Club Member, Advisor: Prof. Zeke Wang   May 2023 – Dec. 2023

Multi-node parallel computing and cluster management

- Honor: 2023 IndyScc championship
- Understand basic methods for accelerating applications such as CESM (Common Earth System Model)
- Mastery of hardware knowledge related to clusters
- Participate in weekly club meetings with other members, and collectively explore acceleration techniques

PROJECT EXPERIENCE

- **TA for the HPC101 short-term computer course:** Responsible for creating and grading assignments related to use CUDA to calculate a high-performance GEMM.
- **StoryTelling Generation:** I have a proficient understanding of ViT, DiT and UNet architecture as well as a comprehensive grasp of diffusion model and attention control mechanisms.
- **CS231n, CS144, CS61a, CS61b:** By completing experiments in these classic courses, I have mastered the programming skills necessary for research.
- **IoT device management system:** Enhanced my ability to integrate front-end with back-end, leading to a deeper understanding of browser/server architecture.
- **Video Motion Transferring:** Generating a dance video of myself based on paper "everybody dance now" and enhancing the clarity of the generated faces.

PERSONAL CAPABILITIES

- Language Proficiency: Scored 631 on CET-6, with short-term exchange experiences in English-speaking regions.
- Programming Skills: Proficient in Python, C++; project experience with JavaScript, SQL, HTML, PyTorch
- Personality Traits: A huge sports fan, achieved second place in the university table tennis team competition, second place in the cheerleading competition, and sixth place in radio direction finding; skilled in teamwork and communication, with some project leadership experience; strong learning ability and passionate about life and learning.