

BoYang ZHENG

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Highly-motivated undergraduate in Computer Science and Technology with good foundations of math. Passionate about deep learning. Currently research interests are Computer Vision, Generative Models, Multi-modal Learning and Adversarial Attacks.

Competences & Languages

GPA 90.22/100
 **English** TOEFL: 110/120 (S:25) , CET6: 639/710

Education

present	ACM Honor Class 2021, Shanghai Jiao Tong University
September 2021	Undergraduate in Computer Science and Technology

Experiences & Projects

- AI-related experiences(Python): **Hands-on experience** with:
 - large text-to-image diffusion models like Stable Diffusion.
 - LLMs and Multi-modal LLMs.
 - Various low-level vision models.
- CPU**: (Verilog) A CPU with tomasulo algorithm, branch prediction and out-of-order execution. Written with verilog and runs on an actual FPGA.
- Compiler**: (java) An OO level, graph-coloring based compiler for a self-defined language called Mx*, which resembles Java much.

Papers

- LM4LV**: <LM4LV: A Frozen Large Language Model for Low-level Vision Tasks>: Utilize a frozen LLM to solve low-level vision tasks without any multi-modal data or prior. [First Author]
- Improved AdvDM**: <Improving Adversarial Attacks on Latent Diffusion Model> : A research about crafting general and strong adversarial examples against latent diffusion models (especially *Stable Diffusion*). [Co-first Author]

Selected Courses

- Computer Programming: **94/100**
- Data Structure: **94/100**
- Machine Learning : **95/100** (top one paper award)
- Algorithm: **99/100**.
- Data Mining: **97.6/100** (top one in kaggle contest)
- Mathematical Analysis: **96/100**
- Computer Vision **100/100** (course work paper accepted by ICMSSP 2024)