BoYang ZHENG

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🎓 Undergraduate of Computer Science and Technology   🏛 Shanghai Jiao Tong University (SJTU)
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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 September 2021	ACM Honor Class 2021, **Shanghai Jiao Tong University** 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 O0 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)