Bingliang Zhang

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EDUCATIONS

Special CS Pivot Class (Yao Class)   2019.8 - Present
IIIS, Tsinghua Univerity, Undergraduate   Beijing, China

- First three years' **GPA** is **3.97/4.00** (rank **2/94** in Yao Class)
- **14 Full Score (A+) Courses (48 credits in total)**: Deep Learning, AI+X (AI Interdisciplinary Research Project), Probability and Statistics, Data Structure, Fundamentals of Object-Oriented Programming, Fundamentals of Programming, etc.

CMU Visiting Research Program   2022.2 - 2022.8
RI, Carnegie Mellon University, Visiting Student   Pittsburgh, US

EXPERIENCES

Finetuning Text-to-Image Diffusion Models   2022.10 – Present
Text-to-Image Generation, Diffusion Model, Few Shot Learning   Advisor: Jun-Yan Zhu

- Given a pretrained diffusion model, a finetuning method is proposed to adapt it to new unseen categories or personalized objects without losing learnt knowledge.

Object-Centric GANs from In-the-wild Images   2022.2 – Present
Unconditioned Object-Centric Generation, In-the-wild Images   Advisor: Jun-Yan Zhu

- Given a in-the-wild images dataset of certain category, a framework is proposed to handle possible difficulties within current GAN training, such as occlusion, partial visibility, any resolution. As a results, we'd like to model and generate full body images without occlusions.

Agent Decision Diversity   2021.7 – 2022.2
Reinforcement Learning, Policy Gradient, Diversity   Advisor: Yi Wu

- A project to learn diverse but equally good policy in complicated environments. The proposed algorithm, RSPO, is able to continuously discover diverse strategies by iteratively learning new policies that are distinct from previous ones.

PUBLICATIONS

Multi-concept Customization of Text-to-Image Diffusion   2022
Nupur Kumari, Bingliang Zhang, Richard Zhang, Eli Shechtman, Jun-Yan Zhu

Continuously Discovering Novel Strategies via Reward-Switching Policy Optimization   ICLR 2022
Zihan Zhou, Wei Fu, Bingliang Zhang, Yi Wu

AWARD

Yao-Award Recognition Price   2022
<10% of all Yao Class students

China National Scholarship   2021
<0.2% of all undergraduates in China

Academic Excellence Scholarship   2020
<5% of all students in university