

# Bingliang Zhang

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## EDUCATIONS

**Special CS Pivot Class (Yao Class)** 2019.8 - Present  
*IIIS, Tsinghua University, 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

**Continuously Discovering Novel Strategies via Reward-Switching Policy Optimization** 2021  
*ICRL 2022 Poster as third author*

## 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*