ZHICHENG SUN

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EDUCATION

Peking University   Beijing, China
Ph.D. Student in Data Science   09/2020 – 07/2025 (expected)
Supervisor: Prof. Yadong Mu

Peking University   Beijing, China
B.S. in Computer Science   09/2016 – 07/2020

INTERNSHIP

Kuaishou Technology   Beijing, China
Research Intern on Generative Models   01/2024 – Present
Supervisor: Dr. Kun Xu

RESEARCH INTEREST

I research on **Generative Models** and **Continual Learning**. My short-term goal is to improve generative models from the continual learning perspective (e.g. efficiency, knowledge sharing). My long-term goal is to enable generative models to learn continually (via new paradigms such as flow-based models and equilibrium models).

PREPRINTS

1. **Pyramidal Flow Matching for Efficient Video Generative Modeling**
   Yang Jin, Zhicheng Sun, Ningyuan Li, Kun Xu, Kun Xu, Hao Jiang, Nan Zhuang, Quzhe Huang, Yang Song, Yadong Mu, Zhouchen Lin
   Preprint, 2024

2. **Closed-Loop Long-Horizon Robotic Planning via Equilibrium Sequence Modeling**
   Jinghan Li, Zhicheng Sun, Fei Li, Cao Sheng, Jiazhong Yu, Yadong Mu
   Preprint, 2024

PUBLICATIONS

1. **RectifID: Personalizing Rectified Flow with Anchored Classifier Guidance**
   Zhicheng Sun, Zhenhao Yang, Yang Jin, Haozhe Chi, Kun Xu, Kun Xu, Liwei Chen, Hao Jiang, Yang Song, Kun Gai, Yadong Mu
   NeurIPS, 2024

2. **Video-LaVIT: Unified Video-Language Pre-training with Decoupled Visual-Motional Tokenization**
   Yang Jin, Zhicheng Sun, Kun Xu, Kun Xu, Liwei Chen, Hao Jiang, Quzhe Huang, Chengru Song, Yuliang Liu, Di Zhang, Yang Song, Kun Gai, Yadong Mu
   ICML, 2024 ***(Oral)***

3. **Exploring Orthogonality in Open World Object Detection**
   Zhicheng Sun, Jinghan Li, Yadong Mu
   CVPR, 2024

4. **Countering Personalized Text-to-Image Generation with Influence Watermarks**
   Hanwen Liu, Zhicheng Sun, Yadong Mu
   CVPR, 2024

5. **Rewiring Neurons in Non-Stationary Environments**
   Zhicheng Sun, Yadong Mu
   NeurIPS, 2023 ***(Spotlight)***

6. **Regularizing Second-Order Influences for Continual Learning**
   Zhicheng Sun, Yadong Mu, Gang Hua
   CVPR, 2023

7. **Patch-based Knowledge Distillation for Lifelong Person Re-Identification**
   Zhicheng Sun, Yadong Mu
   ACM Multimedia, 2022

SELECTED AWARDS

- Leo KoGuan Scholarship, Peking University, 2024
- Xingye Scholarship, Peking University, 2023
- Merit Student, Peking University, 2023, 2024
- Academic Innovation Award, Peking University, 2024
- Academic Excellence Award, Peking University, 2022
- Silver Medal in Chinese Physics Olympiad, 2015

ACADEMIC SERVICES

- **Conference reviewer:** ICLR 2025, NeurIPS 2024, ICCV 2023, ECCV 2024, ACM Multimedia 2022–2024, AISTATS 2025, ACCV 2024, ACML 2024, WACV 2024
- **Journal reviewer:** TMM 2022–2023, TCSVT 2024, Neurocomputing 2022
- **Teaching assistant:** Computer Vision and Deep Learning by Prof. Yadong Mu, Spring 2022
- **Teaching assistant:** Deep Learning: Algorithm and Application by Prof. Yadong Mu, Spring 2024