

# ZHICHENG SUN

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## EDUCATION

### Peking University

Ph.D. Student in Data Science

Supervisor: Prof. Yadong Mu

Beijing, China

09/2020 – 07/2025 (expected)

### Peking University

B.S. in Computer Science

Beijing, China

09/2016 – 07/2020

## INTERNSHIP

### Kuaishou Technology

Research Intern on Generative Models

Supervisor: Dr. Kun Xu

Beijing, China

01/2024 – Present

## 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

- 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*
- 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

- 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*
- 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)*
- Exploring Orthogonality in Open World Object Detection**  
Zhicheng Sun, Jinghan Li, Yadong Mu  
*CVPR, 2024*
- Countering Personalized Text-to-Image Generation with Influence Watermarks**  
Hanwen Liu, Zhicheng Sun, Yadong Mu  
*CVPR, 2024*
- Rewiring Neurons in Non-Stationary Environments**  
Zhicheng Sun, Yadong Mu  
*NeurIPS, 2023 (Spotlight)*
- Regularizing Second-Order Influences for Continual Learning**  
Zhicheng Sun, Yadong Mu, Gang Hua  
*CVPR, 2023*
- Patch-based Knowledge Distillation for Lifelong Person Re-Identification**  
Zhicheng Sun, Yadong Mu  
*ACM Multimedia, 2022*

## SELECTED AWARDS

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- National 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

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- **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