Kaifeng Zhang's Resume

📮 Email: zhangkf@sqz.ac.cn ☎ Phone: (+086) 178-0511-1076 🖥 Homepage: https://alexkfzhang.github.io

📚 Education

Nanjing University	**Nanjing, China**
Computer Science, Master of Science	2017 – 2020
Southwest Jiaotong University	**Chengdu, China**
Computer Science, Bachelor of Science, Rank: 1-st/105	2013 – 2017

💼 Experience

Shanghai Qi Zhi Institute — **Shanghai, China**
Assistant Researcher working with Professor Yang Gao (IIIS, Tsinghua University) — Aug. 2021 – now
– Vision-Language Models for Designing Robotic Reward Signal.
– Mastering Robot Imitation Learning through World Models (MCTS-Imitation).
– Pre-training Representations for Imitation Learning in Robotics (Self-Supervised Learning).
– Auto-Encoding Adversarial Imitation Learning.

Intelligent Automotive Driving BU, HUAWEI — **Shanghai, China**
Engineer — Jul. 2020 – Jul. 2021
– Parking Slots Detection with Surrounding Camera Views (Visual Object Detection).
– Intelligent Self-Calibration for Steering System in Cars with Generative Modeling.

Rhino Bird Elite Program, AI Lab, Tencent — **Shenzhen, China**
Research Intern — Dec. 2018 – May. 2019
– Reproduce Supervised 2D/3D Pose Estimation.

AI Lab, NetEase Games — **Hangzhou, China**
Research Intern — Mar. 2018 – Sep. 2018
– Developing AI-based Player for "NiShuiHan" (MMORPG Game).
– Imitation Learning on Atari 2600 Games (Pixel-based Imitation).

LAMDA Group, Nanjing University — **Nanjing, China**
Research Assistant working with Professor Yang Yu — Aug. 2017 – Jun. 2020
– E-Commerce Recommendation System through Virtual Customer Modeling & Reinforcement Learning.
– Adversarial Imitation Learning for Markov Decision Process with Unknown Transition Models.
– On Mode Collapse in Training Generative Adversarial Networks.

✋ Skills

Programming: Python, C/C++, MATLAB, Java, LaTeX

Tools: PyTorch, TensorFlow, MuJoCo, Meta-World, DMControl, Docker, Git

TOEFL: 96 (Reading: 27 Listening: 22 Speaking: 22 Writing: 25)

📕 Publications

[C3] **Learning Manipulation Skills through Robot Chain-of-Thought with Sparse Human Feedback**
Kaifeng Zhang, Zhao-Heng Yin, Weirui Ye and Yang Gao
In submission, Advances in Neural Information Processing Systems (NeurIPS), 2024

[C2] **Auto-Encoding Adversarial Imitation Learning**
Kaifeng Zhang, Rui Zhao, Ziming Zhang and Yang Gao
International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2024

[C1] **On Mode Collapse in Generative Adversarial Networks**
Kaifeng Zhang
International Conference on Artificial Neural Networks (ICANN), 2021 **Oral**

[J1] **Methodologies for Imitation Learning via Inverse Reinforcement Learning: A Review (in Chinese)**
Kaifeng Zhang and Yang Yu
Journal of Computer Research and Development, 2019

📖 Patent

[P1] PCT/CN2021/093935: A Generative Adversarial Nets based Intelligent Self-Calibration Method for EPS in Cars
Investigators: Kaifeng Zhang (Work Done at Huawei Co., Ltd.)

💂 Academic Services

Reviewer: ICML'2022-2024, NeurIPS'2022-2023, ICLR'2024

🏆 Awards

First Prize in China Undergraduate Mathematical Contest (CMC)	2014
Third Prize in RoboMaster Robotics Regional Competition	2016
Second Provincial Prize in China Mathematical Contest in Modeling (CUMCM)	2015
Outstanding Graduate Award at Provincial Level	2017
Merit or Pacemaker Award for Undergraduate Students x 3	2014, 2015, 2016

🧧 Scholarships

Academic Scholarship for Graduate Students in Nanjing University x 2	2018, 2019
YingCai Scholarship for Graduate Students	2018
Merit Scholarship for Graduate Students in Nanjing University	2017
Grade-89 Alumni Scholarship (top 5 in school of information science)	2015
Academic Scholarship for Undergraduate Students x 6	2014, 2015, 2016

👨‍🔬 Reference

Yang Gao   Assistant Professor at IIIS (Yao Class) at Tsinghua University   Email: gaoyangiiis@tsinghua.edu.cn

Yang Yu   Professor at Nanjing University   Email: yuy@nju.edu.cn