Kaifeng Zhang's Resume

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Education

Nanjing University Nanjing, China

Computer Science, Master of Science 2017 - 2020

Southwest Jiaotong University Chengdu, China 2013 - 2017

Computer Science, Bachelor of Science, Rank: 1-st/105

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, Al Lab, Tencent

Shenzhen, China

Dec. 2018 - May. 2019

Research Intern

- Reproduce Supervised 2D/3D Pose Estimation. Al Lab, NetEase Games Hangzhou, China

Research Intern Mar. 2018 - Sep. 2018

- Developing Al-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

[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 \times 3	2014, 2015, 2016

🬼 Scholarships

Academic Scholarship for Graduate Students in Nanjing University $\times\ 2$	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 × 6	2014, 2015, 2016

🤶 Reference

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

Rui Zhao Research Scientist at Tencent Al Lab Email: zhaorui.in.germany@gmail.com

De-Chuan Zhan Professor at Nanjing University Email: zhandc@nju.edu.cn

Ziming Zhang Assistant Professor at Worcester Polytechnic Institute Email: zzhang15@wpi.edu

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