

Yanjie Ze

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Research Interest

I am broadly interested in developing intelligent agents that solve real-world robotic problems with efficiency and generalizability.

My work is at the intersection of **Reinforcement Learning**, **Robotics**, and **Computer Vision**.

Education

Shanghai Jiao Tong University

Bachelor in Computer Science and Engineering, GPA: 4.0/4.3 or 91.1/100 (top 10% and rank #1 for 6th semester)

- Thesis: **Learning 3D Visual Representations for Robotic Manipulation**
- Advisor: [Xiaolong Wang](#)

Shanghai, China

2019 – 2023

Shanghai Qi Zhi Institute

Research Assistant

- Advisor: [Huazhe Xu](#)

Shanghai, China

2023 – Present

University of California, San Diego

Visiting Scholar

- Spend 4 months in Beautiful San Diego
- Conduct real robot experiments with an xArm robot
- Advisor: [Xiaolong Wang](#)

San Diego, CA, USA

2022 – 2023

Publications

- [5] **On Pre-Training for Visuo-Motor Control: Revisiting a Learning-from-Scratch Baseline** 2023
*Nicklas Hansen**, *Zhechen Yuan**, **Yanjie Ze***, *Tongzhou Mu**, *Aravind Rajeswaran[†]*, *Hao Su[†]*, *Huazhe Xu[†]*, *Xiaolong Wang[†]*
<https://arxiv.org/abs/2212.05749> ICML
- [★] **Visual Reinforcement Learning with Self-Supervised 3D Representations** 2023
Yanjie Ze*, *Nicklas Hansen**, *Yinbo Chen*, *Mohit Jain*, *Xiaolong Wang*
<https://arxiv.org/abs/2210.07241> RA-L & IROS
- [3] **DPMAC: Differentially Private Communication for Cooperative Multi-Agent Reinforcement Learning** 2023
*Canzhe Zhao**, **Yanjie Ze***, *Jing Dong*, *Baoxiang Wang*, *Shuai Li*
<https://openreview.net/forum?id=VlwEYmMID9R> IJCAI
- [2] **Differentially Private Temporal Difference Learning with Stochastic Nonconvex-Strongly-Concave Optimization** 2023
Canzhe Zhao, **Yanjie Ze**, *Jing Dong*, *Baoxiang Wang*, *Shuai Li*
<https://arxiv.org/abs/2201.10447> WSDM
- [1] **UKPGAN: A General Self-Supervised Keypoint Detector** 2022
Yang You, *Wenhai Liu*, **Yanjie Ze**, *Yong-Lu Li*, *Weiming Wang*, *Cewu Lu*
<https://arxiv.org/abs/2011.11974> CVPR

Honors & Awards

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| 2022 | SenseTime Scholarship , select 30 from all undergraduates in China, 20000¥ | China |
| 2021 | United Scholarship , select 2 from 500+ undergraduates, 12000¥ | Shanghai, China |
| 2020 | Finalist of National Scholarship , select 7 from 500+ undergraduates, 8000¥ | China |

Miscellaneous

Academic Service Reviewer for ICLR 2023, CVPR 2023

Programming Python, C/C++, Bash, TeX

TOEFL 104 (R29/L28/S23/W24)