Zhao-Heng Yin

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Document Name: Zhaoheng Yin

Education

University of California, Berkeley	**2023 - 2028 (Expected)**

Doctor of Philosophy - Computer Science

The Hong Kong University of Science and Technology	**2021 - 2023**

Master of Philosophy - Electronic and Computer Engineering

- GPA: 4.16/4.00. Advisor: Prof. Qifeng Chen.
- Research Intern at Tsinghua Univeristy IIIS. Advisor: Prof. Yang Gao.
- Research Intern at UC San Diego. Advisor: Prof. Xiaolong Wang.

Nanjing University	**2017 - 2021**

Bachelor of Science - Computer Science (Honored Class) and Mathematics

- GPA: 4.48/5.00. Advisor: Prof. Wu-Jun Li.
- Visiting Student at UC Berkeley. Advisor: Prof. Masayoshi Tomizuka.

Selected Publications

The information of the following publications can be found on my website. * indicates equal contribution.

1. **Zhao-Heng Yin***, Binghao Huang*, Yuzhe Qin, Qifeng Chen, Xiaolong Wang. "Rotating without Seeing: Towards In-hand Dexterity through Touch". In *Robotics: Science and Systems (RSS)*, 2023.

2. Jialei Huang, **Zhao-Heng Yin**, Yingdong Hu, Yang Gao. "Policy Contrastive Imitation Learning". In *International Conference on Machine Learning (ICML)*, 2023.

3. **Zhao-Heng Yin**, Weirui Ye, Qifeng Chen, Yang Gao. "Planning for Sample Efficient Imitation Learning". In *Neural Information Processing Systems (NeurIPS)*, 2022.

4. **Zhao-Heng Yin**, Lingfeng Sun, Hengbo Ma, Masayoshi Tomizuka, Wu-Jun Li. "Cross Domain Robot Imitation with Invariant Representation". In *IEEE International Conference on Robotics and Automation (ICRA)*, 2022.

5. **Zhao-Heng Yin**, Yang Gao, Qifeng Chen. "Spatial Generalization of Visual Imitation Learning with Position-Invariant Regularization". In *Conference on Robot Learning (CoRL)* workshop on Aligning Robot Representation with Humans (Long Paper), 2022.

6. Yuzhe Qin*, Binghao Huang*, **Zhao-Heng Yin**, Hao Su, Xiaolong Wang. "DexPoint: Generalizable Point Cloud Reinforcement Learning for Sim-to-Real Dexterous Manipulation". In *Conference on Robot Learning (CoRL)*, 2022.

7. **Zhao-Heng Yin***, Lingfeng Sun*, Liting Sun, Masayoshi Tomizuka, Wei Zhan. "Diverse Critical Interaction Generation for Planning and Planner Evaluation". In *IEEE/RSJ Internation Conference on Intelligent Robots and Systems (IROS)*, 2021.

8. **Zhao-Heng Yin**, Wu-Jun Li. "TOMA: Topological Map Abstraction for Reinforcement Learning". *arXiv preprint:2005.06061*, 2020.

Skills

- **Language:** English, Chinese.
- **Programming:** C, C++, Python, Java, MATLAB, Verilog HDL, HTML/CSS/Javascript, Shell, TEX.
- **Toolsets:** Docker, Kubernetes, Git, Linux.
- **Physics Simulation:** MuJoCo, PyBullet, SAPIEN, IsaacGym.
- **General Engineering Skills:** 3D Modeling (Solidworks and Blender), Embedded System Design (STM32 and Arduino), ROS, FPGA, Analog Circuit.

Honors and Awards

National Elite Scholarship, China   2020, 2021