

TONGZHOU MU

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EDUCATION

University of California, San Diego

- *Ph.D. in Computer Science & Engineering*
- *M.S. in Computer Science & Engineering*

Advisor: Hao Su

2019 – Present

GPA: 4.0/4.0

2017 – 2019

Zhejiang University *B.Eng. in Computer Science*

GPA: 3.8/4.0, Major GPA: 3.97/4.00

2013 – 2017

RESEARCH INTERESTS

- Reinforcement Learning (especially object-centric RL and model-based RL)
- Planning & Control
- Concept Discovery and Reasoning

PUBLICATIONS

- **Tongzhou Mu***, Zhan Ling*, Fanbo Xiang*, Derek Yang*, Xuanlin Li*, Stone Tao, Zhiao Huang, Zhiwei Jia, and Hao Su. “ManiSkill: Generalizable Manipulation Skill Benchmark with Large-Scale Demonstrations.” In *the 35th Conference on Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track*, 2021.
- **Tongzhou Mu***, Jiayuan Gu*, Zhiwei Jia, Hao Tang, and Hao Su. “Refactoring Policy for Compositional Generalizability using Self-Supervised Object Proposals.” In *the 34th Conference on Neural Information Processing Systems (NeurIPS)*, 2020.
- Fangchen Liu, Zhan Ling, **Tongzhou Mu**, and Hao Su. “State Alignment-based Imitation Learning.” In *the 8th International Conference on Learning Representations (ICLR)*, 2020.
- Xingchao Liu*, **Tongzhou Mu***, and Hao Su. “Transfer Value or Policy? A Value-centric Framework Towards Transferrable Continuous Reinforcement Learning.” In *the Deep Reinforcement Learning Workshop at the 32th Conference on Neural Information Processing Systems (NeurIPS)*, 2018.
- Zebang Shen, Hui Qian, **Tongzhou Mu**, and Chao Zhang. “Accelerated Doubly Stochastic Gradient Algorithm for Large-scale Empirical Risk Minimization.” In *the 26th International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.
- Zebang Shen, Hui Qian, Tengfei Zhou, and **Tongzhou Mu**. “Adaptive Variance Reducing for Stochastic Gradient Descent.” In *the 25th International Joint Conference on Artificial Intelligence (IJCAI)*, 2016.

* indicates equal contribution

INDUSTRY EXPERIENCES

Amazon Alexa AI, Full-Time Applied Scientist Intern

Sunnyvale, United States

- Project: Interpretable RL for Text-Based Games with Graph Inputs

June 2021 – Sep 2021

Wormpex AI Research, Full-Time Research Intern

Seattle, United States

- Project: Store Layout Optimization based on Customer Behavior Model

June 2020 – Sep 2020

Intel AI, Full-Time Research Intern

San Diego, United States

- Project: Memory-Constrained Navigation via Combining RL and Planning

July 2019 – Sep 2019

Microsoft Research Asia, Full-Time Intern at Visual Computing Group

Beijing, China

- Project: Indoor Visual Navigation by Deep RL

Apr 2017 – Aug 2017

AWARDS & HONORS

- ACM-ICPC (International Collegiate Programming Contest) Asia Regional Contest **Gold Medal** 2015
- Award of Excellence for Stars of Tomorrow Internship Program, Microsoft Research Asia 2017
- China Computer Federation Elite Collegiate Award (top 108 in China) 2016

PROFESSIONAL SERVICES

- Leading Organizer of *ICLR 2022 Workshop “Generalizable Policy Learning in the Physical World”*
- Conference Reviewer: *ICLR 2021, ICCV 2021, ICRA 2022*
- Teaching Assistant for *CSE 152 Introduction to Computer Vision* (Fall 2018) at UC San Diego