

Yifeng Zhu

Ph.D. student, Computer Science Department
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EDUCATION	The University of Texas at Austin , Austin, TX, U.S. <i>Ph.D. student</i> in Computer Science Advisors: Prof. Yuke Zhu and Prof. Peter Stone	2019 - Now
	Carnegie Mellon University , Pittsburgh, PA, U.S. <i>Visiting Student</i> in Machine Learning Department Advisor: Prof. Manuela Veloso	2017 - 2018
	Zhejiang University , Hangzhou, Zhejiang, China <i>Bachelor of Engineering</i> in Automation & <i>Bachelor of Arts</i> in English Advisor: Prof. Rong Xiong	2014 - 2018

EMPLOYMENT	Toyota Research Institute, Los Altos, CA, U.S. <i>Research Intern</i>	Jun 2022 — Aug 2022
	NVIDIA Research, Redmond, WA, U.S. <i>Research Intern</i>	Jun 2020 — Aug 2020
	Sony AI, Tokyo, Japan <i>Research Intern</i>	Apr 2019 — Aug 2019
	Carnegie Mellon University, Pittsburgh, PA, U.S. <i>Research Associate</i>	Aug 2018 — Jan 2019

REFEREED PUBLICATIONS

- [1] **Yifeng Zhu**, Peter Stone, Yuke Zhu. Bottom-Up Skill Discovery from Unsegmented Demonstrations for Long-Horizon Robot Manipulation. *International Conference on Robotics and Automation (ICRA)*, 2022.
- [2] Xiaohan Zhang, **Yifeng Zhu**, Yan Ding, Yuke Zhu, Peter Stone, Shiqi Zhang. Visually Grounded Task and Motion Planning for Mobile Manipulation. *International Conference on Robotics and Automation (ICRA)*, 2022.
- [3] **Yifeng Zhu**, Jonathan Tremblay, Stan Birchfield, Yuke Zhu. Hierarchical Planning for Long-Horizon Manipulation with Geometric and Symbolic Scene Graphs. *International Conference on Robotics and Automation (ICRA)*, 2021.
- [4] Zhenyu Jiang, **Yifeng Zhu**, Maxwell Svetlik, Kuan Fang, Yuke Zhu. Synergies Between Affordance and Geometry: 6-DoF Grasp Detection via Implicit Representations. *Robotics: Science and Systems (RSS)*, 2021.
- [5] Guanya Shi, **Yifeng Zhu**, Jonathan Tremblay, Stan Birchfield, Fabio Ramos, AnimashreeAnandkumar, Yuke Zhu. Fast Uncertainty Quantification for Deep Object Pose Estimation. *International Conference on Robotics and Automation (ICRA)*, 2021.
- [6] **Yifeng Zhu**, Devin Schwab, Manuela Veloso. Learning Primitive Skills for Mobile Robots. *International Conference on Robotics and Automation (ICRA)*, 2019.

- [7] Devin Schwab, **Yifeng Zhu**, Manuela Veloso. Reinforcement Learning with Tensor State and Action Spaces. *Neural Information Processing Systems Deep Reinforcement Learning Workshop, 2018*.
- [8] Devin Schwab, **Yifeng Zhu**, Manuela Veloso. Learning Skills for Small Size League RoboCup. *RoboCup International Symposium 2018*. **(Oral & Nominated for Best Paper Award)**
- [9] Devin Schwab, **Yifeng Zhu**, Manuela Veloso. Zero Shot Transfer Learning for Robot Soccer. Extended Abstract. *Proceedings of the 17th International Conference on Autonomous Agents and Multiagent Systems*.
- [10] **Yifeng Zhu**, Yongsheng Zhao, Lisen Jin, Jun Wu, Rong Xiong. Towards High Level Skill Learning: Learn to Return Table Tennis Ball Using Monte-Carlo Based Policy Gradient Method. *IEEE International Conference on Real-time Computing and Robotics, 2018*. **(Oral & Nominated for Best Paper Award)**

AWARDS & HONORS

Awards and Prizes

- Silver Medal at RoboCup 2018 Small Size League 2018
- First Price in National Olympiad of Chemistry in Jiangsu Province 2013
- First Price in National Olympiad of Informatics in Jiangsu Province 2012

Scholarships

- Undergraduate Thesis Project Scholarship 2017
- Cross-disciplinary Scholars in Science and Technology Scholarship 2017

SERVICES

Conference Reviewer

- International Conference on Robotics and Automation (ICRA)
- Conference on Robot Learning (CoRL)
- International Conference on Intelligent Robots and Systems (IROS)

Journal Reviewer

- IEEE Robotics and Automation Letters (RA-L)

Workshop Organizer

- Texas Regional Robotics Symposium 2022

TALKS

Building State and Action Abstractions for Long-Horizon Robot Manipulation

- Invited talk at Stanford, CA Oct 2021

Robot Manipulation with Geometric and Symbolic Scene Graphs

- Structural and Compositional Learning on 3D Data Workshop ICCV'21 Oct 2021
- MatchLab at Imperial College London Feb 2022

TEACHING	Teaching Assistant, The University of Texas at Austin CS 391R Robot Learning	Fall 2022
	Teaching Assistant, The University of Texas at Austin CS 343 Artificial Intelligence	Spring 2021
	Teaching Assitant, The University of Texas at Austin CS 391R Robot Learning	Fall 2020
	Teaching Assitant, The University of Texas at Austin CS 394R Reinforcement Learning	Fall 2019