Yifan Zhu

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EDUCATION

University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
Ph.D. in Computer Science expected: May 2023

Duke University, Durham, NC

Ph.D. in Electrical and Computer Engineering(transferred) Aug. 2017-Aug. 2019

Vanderbilt University, Nashville, TN

Bachelor of Engineering May 2017 Major: Mechanical Engineering

1st Minor: Mathematics 2nd Minor: Computer Science

INDUSTRY EXPERIENCE

Baidu Robotics & Autonomous-driving Lab, Sunnyvale, CA

Research Intern May - Dec. 2021

PUBLICATION

Jing-Chen Peng*, Joao Marcos Correia Marques*, Patrick Naughton*, **Yifan Zhu***, James Nam, Neil Malhotra, Kris Hauser. "Immersive Commodity Telepresence With the TRINA Nursebot," Manuscript in preparation to submit to International Journal of Social Robotics.

- Y. Zhu, L. Wang, and L. Zhang, "Excavation of Fragmented Rocks with Multi-modal Model-based Reinforcement Learning," IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2022.
- **Y. Zhu**, A. Smith, and K. Hauser, "Automated Heart and Lung Auscultation in Robotic Physical Examinations," IEEE Robotics and Automation Letters (RA-L) with ICRA 2022 option.
- Q. Lu*, Y. Zhu*, and L. Zhang, "Excavation Reinforcement Learning Using Geometric Representation," IEEE Robotics and Automation Letters (RA-L) with ICRA 2022 option.
- Y. Zhu, Z. Pan, and K. Hauser, "Contact-Implicit Trajectory Optimization With Learned Deformable Contacts Using Bilevel Optimization," IEEE International Conference on Robotics and Automation (ICRA) 2021.
- G. Ma, S. Oca, Y. Zhu, P. J. Codd., and D. Buckland, "A Novel Robotic System for Ultrasound-guided Peripheral Vascular Localization," IEEE International Conference on Robotics and Automation (ICRA) 2021.
- Y. Zhu, K. Lu, and K. Hauser, "Semi-Empirical Simulation of Learned Force Response Models for Heterogeneous Elastic Objects," IEEE International Conference on Robotics and Automation (ICRA) 2020.

Y. Zhu, L. Abdulmajeid, and K. Hauser, "A Data-driven Approach for Fast Simulation of Robot Locomotion on Granular Media," IEEE International Conference on Robotics and Automation (ICRA) 2019.

Y. Zhu, P. J. Swaney, I. S. Godage, R. Lathrop, and R. J. Webster, "A Disposable Robot for Intracerebral Hemorrhage Removal. Journal of Medical Devices, 2016; 10(2), 020952.

EXPERIENCE ANA Avatar XPRIZE

Sept. 2019 - Nov. 2022

• One of the team leads on teem AVATRINA that scored 4 th in the ANA Avatar XPRIZE final, one of the only 4 teams that finished all 10 tasks.

TEACHING(TA) Intelligent Robotics (UIUC)

Spring 2020

Intro to Robotics and Automation (Duke University)

Fall 2018

Intro to Robotics (Vanderbilt University)

Fall 2015 and Fall 2016

ACTIVITIES

PROFESSIONAL Reviewer for: IEEE International Conference on Robotics and Automation (ICRA); IEEE International Conference on Intelligent Robots and Systems (IROS); IEEE Robotics and Automation Letters (RA-L); IEEE Transactions on Robotics (T-RO); IEEE International Conference on Advanced Robotics (ICAR); IEEE Robotics & Automation Magazine (RAM)

LINKS AVATAR XPRIZE team website: https://avatarxprize.web.illinois.edu/