Yifan Zhu

(615) 336-2870
yifan16@illinois.edu
https://yifanzhu95.github.io/

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

Y. Zhu*, P. Thangeda*, M. Ornik, and K. Hauser. "Few-shot Adaptation for Manipulating Granular Materials Under Domain Shift," *Submitted to Robotics: Science and Systems (RSS) 2023.*

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 Multimodal 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*

PROFESSIONAL ACTIVITIES   *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/*