HAOMENG ZHANG

Research Interests	I am broadly interested in Computer Vision, Machine Learning, and Robotics, with a focus on 3D Vision and Multi-modal Learning . I currently work on problems related to affordance . Previously, I have also worked on the following fields: (i) 3D visual grounding, (ii) 3D visual question answering, (iii) point cloud completion, (iv) trajectory prediction.	
Education	Purdue University	2023 - 2028 (expected)
	Ph.D. in Computer Science	Advisor: Prof. Raymond A. Yeh
	University of Illinois at Urbana-Champaign (UIUC)	2021 - 2023
	M.S. in Computer Science	Advisor: Prof. Liangyan Gui
	University of Michigan	2019 - 2021
	B.S.E. in Data Science	GPA: 3.96/4.00
	Shanghai Jiao Tong University (SJTU)	2017 - 2021
	B.E. in Electrical and Computer Engineering	GPA: 3.79/4.00
Publications	 Multi-Object 3D Grounding with Dynamic Modules and Language Informed Spatial Attention Haomeng Zhang, Chiao-An Yang, Raymond A. Yeh Neural Information Processing Systems (NeurIPS), 2024. 	
	 Hyperspherical Embedding for Point Cloud Completion Junming Zhang, Haomeng Zhang, Ram Vasudevan, Matthew Johnson-Roberson IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023. 	
	3. Abrasion Status Prediction with BP Neural Network Based on an Intelligent Tire System Haomeng Zhang, Shiwen Zhang, Yue Zhang, Xiaojing Huang, Yi Dai <i>International Conference on Vehicular Control and Intelligence (CVCI)</i> , 2020.	
Services	Reviewer: NeurIPS, ICLR, ICML	
Teaching Experiences	• CS 47100 Introduction to Artificial Intelligence, Purdue	SP25, FA24, SP24, FA23
	CS 444 Deep Learning for Computer Vision, UIUCCS 441 Applied Machine Learning, UIUC	SP23
	 VP 140 Physics I, SJTU 	FA22, SP22, FA21 SU19
Awards	• NeurIPS Top Reviewers	2024
AND	Outstanding Graduate	2021
Honors	• James B. Angell Scholar	2021
	National Scholarship	2019
	Undergraduate Excellent ScholarshipOutstanding Student	2018, 2019 2018
Skills	Languages: Chinese-native, English-proficient.	
	Programming: Python, C++, C, MATLAB.	
	Framework/Tools: Pytorch, Tensorflow, OpenCV	,ROS.