Puhao Li

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Education

2019–Present **Tsinghua University (THU)**, *Beijing, China*
Undergraduate, Department of Automation
○ GPA: 3.74/4.00

Research Intersts

Computer Vision: 3D Scene Understanding & Human-Scene Interaction

Machine Learning: Generative Modeling

Robotics: Dexterous Grasping & Manipulation & Planning

Long-term Goal: is to create an intelligent system that can naturally interact with a novel environment via scene understanding, reasoning, planning and manipulation.

Research Experience

Sep 2021 **Beijing Institution for General Artificial Intelligence (BIGAI)**, *Beijing, China*
–Present Research Intern, General Vision Lab
Adorvisor: Dr. Tengyu Liu & Dr. Siyuan Huang

Publications

Manuscripts **Diffusion-based Generation, Optimization, and Planning in 3D Scenes**
Siyuan Huang*, Zan Wang*, **Puhao Li**, Baoxiong Jia, Tengyu Liu, Yixin Zhu, Wei Liang, Song-Chun Zhu.
arXiv preprint, 2023

ICRA 2023 **GenDexGrasp: Generalizable Dexterous Grasping**
Puhao Li*, Tengyu Liu*, Yuyang Li, Yiran Geng, Yixin Zhu, Yaodong Yang, Siyuan Huang.
IEEE International Conference on Robotics and Automation, 2023

ICRA 2023 **DexGraspNet: A Large-Scale Robotic Dexterous Grasp Dataset for General Objects Based on Simulation**
Ruicheng Wang*, Jialiang Zhang*, Jiayi Chen, Yinzhen Xu, **Puhao Li**, Tengyu Liu, He Wang.
IEEE International Conference on Robotics and Automation, 2023

Professional Activities

2023 *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, External Reviewer

Awards and Scholarships

2022 Scholarship of Excellent Academic Performance, Tsinghua University
2021 Scholarship of Social Work, Tsinghua University