

Name	Zhiyuan Ma	School	Peking University	
Grade	junior	Major	computer science	
Email	1829142919@qq.com 2200013163@stu.pku.edu.cn	Phone Number	(+86)13963208750	
Address	Peking University, Beijing, Haidian District			
Awards	<p>Sept 2023 Selected for the Top Selection Plan(Bajian Plan)</p> <p>Dec 2023 Merit Student (Academic Year 2022-2023) Lingjun Pioneer Scholarship (Academic Year 2022-2023)</p> <p>Oct 2024 Tianchuang Scholarship (Academic Year 2023-2024)</p>			
Scores	GPA: 3.605 CET-4: 607 CET-6: 564			
Experience	<p>May.2024 - July.2024 PKU-EPIC & Galbot joint lab</p> <p>July 2024 – now PKU-Hyperplane & Agibot Lab</p>			
Skills	<p>Deep learning theory & PyTorch implementation experience</p> <p>Diffusion model development experience</p> <p>Proficient in Isaac Gym simulation platform</p>			
Research Experience	<p>May 2024 - July 2024 Intern at PKU-EPIC Lab (Advisor: Jiayi Chen) Studied deep learning, 3D representations, and fundamental robotics Assisted in organizing articulated object datasets (GAPartNet, UnidoorManip, AKB48) Implemented some code practices based on DexGraspNet and curobo Presented papers in weekly group meetings and participated in lab discussions</p> <p>Sept 2024 - Present Cross-Embodiment Dexterous Grasping in Cluttered Scenes This is my current ongoing project, mentored by Jiyao Zhang and Tianhao Wu. We employ a hand-agnostic grasp pose representation method, namely the improved IBS (Interaction Bisector Surface), to guide our model in grasping with unseen robotic hands in cluttered scenes. We designed a two-stage generative network to predict IBS representations from scene observation point clouds, which is used to guide hand pose optimization, and finally execute scene-level grasping on the physical robot.</p>			