

Qianxu Wang

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My research focuses on learning manipulation skills that generalize across *embodiments* and *environments* by making better use of existing data and knowledge. I develop methods that use robot descriptions to deploy learned skills on new robots without additional demonstrations [P1], and pretrained visual knowledge to learn skills from a single demonstration [P2, P3]. My ongoing work explores how test-time experience collected during deployment can help robots adapt learned skills to new environments.

Education

Cornell University <i>Ph.D. in Computer Science</i>	Ithaca, NY, USA 08/2025 - Present
Peking University <i>Bachelor of Computer Science</i> ◦ Graduated with Cum Laude honors ◦ Outstanding Graduate of Beijing; Outstanding Graduate of Peking University	Beijing, China 09/2021 - 07/2025
Stanford University <i>Undergraduate Visiting Research Intern</i>	Stanford, CA, USA 06/2024 - 08/2024

Selected Publication

- P1 **KITE: Decoupling Kinematics and Interaction for Zero-Shot Cross-Embodiment Manipulation**
Qianxu Wang, Shengmiao Samuel Jin, Kuan Fang
In submission
- P2 **Neural Attention Field: Emerging Point Relevance in 3D Scenes for One-Shot Dexterous Grasping**
Qianxu Wang, Congyue Deng, Tyler Ga Wei Lum, Yuanpei Chen, Yaodong Yang, Jeannette Bohg, Yixin Zhu†, Leonidas Guibas†
Conference on Robot Learning (CoRL), 2024
- P3 **SparseDFF: Sparse-View Feature Distillation for One-Shot Dexterous Manipulation**
Qianxu Wang, Haotong Zhang, Congyue Deng†, Yang You, Hao Dong, Yixin Zhu†, Leonidas Guibas†
International Conference on Learning Representations (ICLR), 2024

Research Experience

Cornell University <i>Ph.D. Student. Advisor: Prof. Kuan Fang</i>	08/2025 - Present
Stanford, Interactive Perception and Robot Learning Lab <i>Summer Research Intern. Advisor: Prof. Jeannette Bohg</i>	06/2024 - 08/2024
Peking University, Cognitive Reasoning (CoRe) Lab <i>Research Intern. Advisor: Prof. Yixin Zhu</i> I'm fortunate to collaborate with Prof. Leonidas Guibas at Stanford University remotely.	06/2023 - 07/2025

Work Experience

NVIDIA, Solution Architecture Team <i>Advisor: Dr. Rita Zhang</i>	02/2024 - 10/2024
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Selected Awards and Honors

National Scholarship (Top 1% in Peking University, Top 0.2% among undergraduates across China) ◦ The highest honor for undergraduates in China.	2024.10
Pacemaker Award for Merit Student (Top 2% in Peking University)	2024.9
Academic Excellence Award (Top 1% in Peking University)	2024.9