Stanford

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Undergraduate, Computer Science

Bio

BIO

I am currently working with The Movement Lab (TML) at the Department of Computer Science, advised by Dr. Karen Liu.

My research lies at the intersection of robot learning, physics-based simulation, grasping and manipulation, and multimodal perception. I am broadly interested in enabling embodied agents to understand physical structures, reason about dynamics, and perform dexterous manipulation through integrated multimodal sensing. My recent work spans visual–tactile sensing and learning, dexterous manipulation, tool-use and design, and differentiable simulation. I have published or submitted papers to top venues in robotics and embodied AI including RA-L, IROS and CoRL, and I hope to continue probing the deeper principles underlying intelligent robotic systems!

My long-term goal is to develop general-purpose robotic intelligence capable of perceiving, planning, and acting in the physical world with human-level adaptability and finesse, ultimately enabling robots to assist humans in everyday, unstructured environments.

For more details, please visit: www.yinghanchen.com