Yiming Bao

Third-year Undergraduate

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PROFILE

- Third-year Undergraduate student in the Department of Computer Science and Technology (DCST) at Tsinghua University, currently conducting research at the Tsinghua Embodied AI Lab (TEA Lab) affiliated with the Institute for Interdisciplinary Information Sciences (IIIS) under the supervision of Prof. Huazhe Xu. I am deeply passionate about embodied intelligence and robotics, with a particular focus on **bimanual dexterous manipulation**. My recent work targets more generalizable and data-efficient robot learning methods and systems for real-world manipulation, aiming to enable robots to learn robust skills and operate effectively in complex physical environments.

EDUCATION

- **Undergraduate**
  Department of Computer Science and Technology, Tsinghua University
  GPA: 3.8/4.0

  2023 - Present
  Beijing, China

PUBLICATIONS & PREPRINTS

- **UniDex: A Robot Foundation Suite for Universal Dexterous Hand Control from Egocentric Human Videos**
  IN SUBMISSION   June 2025 - November 2025
  The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2026
  ANONYMOUS AUTHOR

TECHNICAL SKILLS

- **Programming and Scripting Languages**
  Python, C/C+, Java, Bash/Shell, JavaScript/TypeScript, CUDA, LaTeX, HDML

- **Tools and Libraries**
  Pytorch, Numpy, ROS/ROS2, Sapien, IsaacGym, Polymetis

- **Hardware and Robots**
  Franka Panda, Inspire Hand, Wuji Hand, Leap Hand, X Hand, Robotiq Gripper, Apple Vision Pro, Oculus Quest, Realsense Camera, NUC

- **OS and Software**
  Linux(Ubuntu), Windows, Git/Github, NVIDIA tools, VSCode

RELEVANT COURSES

- **6.S184**: MIT Computer Science Class: Generative AI with Stochastic Differential Equations   2025

- **Embodied Artificial Intelligence**: Tsinghua IIIS Embodied AI course   2025

- **CS285**: Deep Reinforcement Learning   2025

- **CS231N**: Deep Learning for Computer Vision   2025

- **Intelligent systems and robots**: Tsinghua IIIS Robotics and Robotic Manipulation   2025