

Zhi (Leo) Wang

✉ tx.leo.wz@gmail.com | 🏠 tx-leo.github.io | 📱 TX-Leo

Education

Tsinghua University

B.ENG. IN ELECTRONIC ENGINEERING

Beijing, China

Sep. 2020 - Present

Publications

DoorMan: Close-Loop Task Planning and Manipulation for Articulated Objects in the Wild with Haptic Feedback

Zhi Wang, Yuchen Mo, Shengmiao Jin, Wenzhen Yuan

Under Review (ICRA), 2024, [\[Paper\]](#), [\[Video\]](#), [\[Website\]](#)

KOSMOS-E: Learning to Follow Instruction for Robotic Grasping

Zhi Wang*, Xun Wu*, Shaohan Huang, Li Dong, Wenhui Wang, Shuming Ma, Furu Wei

IEEE International Conference on Intelligent Robots and System (IROS), 2024, [\[Paper\]](#), [\[Video\]](#), [\[Website\]](#)

Research Experience

University of Illinois Urbana-Champaign (UIUC)

RESEARCH ASSISTANT AT [ROBOTOUCH LAB](#), ADVISED BY [PROF. WENZHEN YUAN](#)

Champaign, USA

Mar. 2024 - Present

- **Research Topics: Bimanual Humanoid Manipulation for Articulated Objects in Open World**
- Proposed DoorMan, a mobile humanoid system that leverages haptics info to close-loop bimanually manipulate articulated objects in the wild.

Microsoft Research

RESEARCH INTERN AT [NLC GROUP](#), ADVISED BY [DR. SHAOHAN HUANG](#)

Beijing, China

June. 2023 - Mar. 2024

- **Research Topics: Multimodal Large Language Model for Robotic Grasping**
- Proposed KOSMOS-E, a Multimodal Large Language Model (MLLM) that leverages instruction-following robotic grasping data to enhance capabilities for precise and intricate robotic grasping maneuvers.

Tsinghua University

RESEARCH ASSISTANT AT [ISR-LAB](#), ADVISED BY [PROF. JIANYU CHEN](#)

Beijing, China

Sep. 2021 - Sep. 2022

- **Research Topics: Bipedal Humanoid Robot in the Wild**

Industry Experience

EncoSmart Technology (Beijing) Co., LTD.

ROBOTICS AND COMPUTER VISON INTERN. [\[CODE\]](#) [\[WEBSITE\]](#)

Beijing, China

Apr. 2023 - Jul. 2023

- Developed a core component of LAVA, a fully automated intelligent frying system, by creating a highly precise hand-eye calibration tool that enabled complex robotic manipulation tasks like magnet suction, mobile manipulator calibration, and visual grasping.

Honors & Awards (selected)

Jul. 2023 **Fourth Place**, RoboCup 2023 Humanoid KidSize League (3 %)

Bordeaux, France

Oct. 2021 **Tsinghua University Scholarship**, Science and Technology Innovation Scholarship (1 %)

Beijing, China

Skills

Programming Python, C/C++, Linux, MATLAB, \LaTeX

Frameworks PyTorch, NumPy, OpenCV, Git, Anaconda, Docker

Hardware Arduino, STM32, ESP32, FPGA, BLDC-FOC Driver

Robotics UR5e Robot Arm, FR5 Robot Arm, Realman Humanoid Robot, Aelos Robot, ROS, PyBullet, Realsense, Kinect