

# Zhiyuan Chen

SUSTech

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## Education

- 2021/9–present **Master of Engineering, Electronics Science and Technology**, *Department of Electrical and Electronic Engineering, Southern University of Science and Technology (SUSTech), Shenzhen, China.*
- Advisor: **Dr. Max Q.-H. Meng**
  - Robotic Manipulation and Deep Learning
  - Accumulative GPA: **3.59**/4.0
  - Accumulative Score: **90.8**/100
  - Ranking: 12/52 (top 23%)
- 2021/3–5 **Visiting Students**, *Department of Electrical and Electronic Engineering, SUSTech, Shenzhen, China.*
- 2017/9–2021/6 **Bachelor of Engineering, Electronic Information Engineering**, *School of Electronic Engineering, Xidian University, Xi'an, China.*
- Accumulative GPA: **3.7**/4.0
  - Accumulative Score: **86.2**/100
  - Ranking: 27/226 (top 12%)

## Article

† indicates equal contribution, and \* indicates corresponding authorship.

### Journal Article

- 2023 Peng Xu<sup>†</sup>, **Zhiyuan Chen<sup>†</sup>**, Jiankun Wang and Max Q.-H. Meng\*, **Planar Manipulation via Learning Regrasping, IEEE Transactions on Automation Science and Engineering (T-ASE)** – Under Review.
- [Project][DataSet][Paper]

## Research Experience

### Shenzhen Key Laboratory of Robotics Perception and Intelligence, SUSTech

- 2022–present **Robotic Manipulation via Learning Regrasping.**
- Aiming to facilitate planar manipulation tasks with regrasping, which often requires generating intermediate placement locations for the object being manipulated.
  - Proposed a pipeline with the stages of orientation generation, position refinement, and placement discrimination to obtain accurate and diverse stable placements based on the perception of point clouds.
  - A large-scale dataset is created for training, including simulated placements and contact information between objects and the plane.
- Advisor **Dr. Max Q.-H. Meng**, *Department Head, Chair Professor, Department of Electronic and Electrical Engineering, SUSTech*

## Honors and Awards

- 2019 **National Second Prize**, the "Challenge Cup" National College Students Extracurricular Academic and Scientific Works Competition.
- 2018 **Principal Prize Scholarship**, Xidian University, Xi'an, China.

## Robotic and Computer Vision Skills

**Programming Skills:** Python, PyTorch, Tensor, Matlab

**Robotic Technologies:** PyBullet, Franka Panda, ROS

**Computer Vision Technologies:** open3d, torch3d, opencv

## Teaching Assistant

- Spring, 2023 **EEE5058: Foundation of Information Technology**, SUSTech.
- o Robotic Motion Planning