

Zihang HE

7121 Hart Ln., Austin, TX 78731
7372307770◇ hezihang19@gmail.com

EDUCATION

- University of Texas at Austin**, Austin, Texas, America *2018-2024(Anticipated)*
Ph.D. in Computer Science
GPA: **4.0/4.0**
- Tsinghua University**, Beijing, China *2014-2018*
Bachelor of Engineering(Computer Science)
GPA: **91/100**

RESEARCH EXPERIENCES

- The University of Texas at Austin** *March.2019 – Sep.2020*
Advisor: **Professor Aloysius K. Mok** Austin, Texas, USA
- Designed a high-level language for robot arm manipulation
 - Developed a platform for robot arm to follow high-level language.
 - Tested on IK furniture assembly task.
- Tsinghua University** *Sep.2017 – June.2018*
Advisor: **Professor ChongJie Zhang** Beijing, China
Institute for Interdisciplinary Information Sciences
- Developed a shared autonomy platform for enabling robotics manipulation with RGBD data.
 - Designed an algorithm to recognize certain object in RGBD data.
 - Designed a motion plan strategy to grab and move the object.
 - Designed an algorithm for object classification and completion of point cloud data.
- The University of Texas at Austin** *Feb.2017 – Aug.2017*
Student Intern, Advisor: **Professor Qixing Huang** Austin, Texas, USA
- Designed a clustering method based on the consistence of pairwise maps.
 - Theoretically proved the algorithm can converge to correct clustering under some conditions.
 - Experimented on both synthetic and real datasets.

PAPER

- [1] Chandrajit Bajaj, Tingran Gao, **Zihang He**, Qixing Huang and Zhenxiao Liang. SMAC: Simultaneous Mapping and Clustering Using Spectral Decompositions. ICML 2018

TECHNICAL STRENGTH

- Programming Language** Proficient with C/C++, MATLAB, Java, Python
- Mathematics** Mastering mathematics for computer science including combinatorial mathematics and able to construct mathematical models
- Additional Skills** L^AT_EX, ROS
- Theories** Access to many theories of computer science such as Turning machine and computational complexity