

# Zhenjia Xu

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## Education

### Columbia University

*Ph.D. in Computer Science*  
Advisor: [Shuran Song](#)

New York, NY, USA

September 2019 - present

### Shanghai Jiao Tong University

*B.Eng. in Computer Science (Zhiyuan Honors Degree), ACM class*  
Total GPA: 3.94/4.3; Major GPA: 4.10/4.3; Ranking: 3<sup>rd</sup>/24

Shanghai, China

September 2015 - June 2019

## Publications

### Learning 3D Dynamic Scene Representations for Robot Manipulation

**Zhenjia Xu\***, Zhanpeng He\*, Jiajun Wu, and Shuran Song  
Conference on Robot Learning (CoRL) 2020.

[PDF](#) / [Webpage](#) / [Code](#)

### DensePhysNet: Learning Dense Physical Object Representations via Multi-step Dynamic Interactions

**Zhenjia Xu**, Jiajun Wu, Andy Zeng, Joshua B.Tenenbaum, and Shuran Song  
Robotics: Science and Systems (RSS) 2019.

[PDF](#) / [Webpage](#) / [Code](#)

### Unsupervised Discovery of Parts, Structure, and Dynamics

**Zhenjia Xu\***, Zhijian Liu\*, Chen Sun, Kevin P. Murphy, William T. Freeman, Joshua B.Tenenbaum, and Jiajun Wu  
International Conference on Learning Representations (ICLR) 2019.

[PDF](#) / [Webpage](#) / [Code](#)

## Research Experiences

### Columbia University

Graduate Research Assistant, Advised by [Shuran Song](#)

New York, NY, USA

September 2019 - present

### Massachusetts Institute of Technology

Research Intern, Advised by [Joshua B.Tenenbaum](#)

Cambridge, MA, USA

July 2018 - January 2019

### Shanghai Jiao Tong University

Research Intern, Advised by [Weinan Zhang](#)

Shanghai, China

July 2017 - June 2018

## Honors and Awards

- Outstanding Graduate of Shanghai Jiao Tong University. 2019
- Outstanding Graduate Scholarship of Zhiyuan College 2019
- Chinese National Scholarship 2016, 2017
- Rongchang Scholarship of Shanghai Jiao Tong University 2016
- 2<sup>nd</sup> Place in ACM-ICPC Regional, Greater NY site 2019
- 3<sup>rd</sup> Place in ACM-ICPC Regional, Beijing Site 2016
- Gold Medal in ACM-ICPC China Final 2016
- Gold Medal in ACM-ICPC Regional, Beijing Site 2015
- 3<sup>rd</sup> Place in Chinese Collegiate Programming Contest 2016
- Meritorious Winner in Mathematical Contest in Modeling 2017

## Teaching Experiences

- **Teaching Assistant** of *COMS6998 Topics in Robot Learning* at Columbia University Fall 2019
- **Teaching Assistant** of *MS105 Data Structure* at Shanghai Jiao Tong University Spring 2017
- **Assistant Coach** of ACM-ICPC Team at Shanghai Jiao Tong University 2017 - 2018