

# Zishu LIU

📍 Tsinghua University, Beijing, 100084, P. R. China

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## 🎓 Education

### Tsinghua University

Department of Engineering Physics

Beijing, China

Aug 2016 – June 2020

- Bachelor in **Engineering Physics**; GPA:3.72/4 (Top 25%)
  - Core courses: Decision Making of Public Safety(A+), Operation Research (1)(A-)
- Minor in **Computer Technology and Application**; GPA: 3.68/4
  - Core courses: Principal and Application of Database(A), Introduction of Artificial Intelligence(A-)

## 🔬 Research Experience

### Construction and Similarity Calculation of Emergency

Beijing, China

Student Research Training | Research Assistant

May 2017 – Sept 2018

Advisor: Yi Liu, Associate Professor, Department of Engineering Physics, Tsinghua University

- Constructed emergency and calculated its similarity with the combination of the view of 'Scene' and the method of Markov chain, evaluated it on real-world oil tank fire
- Implemented the construction on an emergency-library application and designed its user interface

### Smart Community Platform

Beijing, China

Student Research Training | Research Assistant

Oct 2018 – Jan 2020

Advisor: Yi Liu, Associate Professor, Department of Engineering Physics, Tsinghua University

- Used *ContextCapture* and *Revit* to model the result of oblique photography
- Developing the 3D visualization part of the platform based on *Cesium*
- Reconstructed buildings from BIM for fast earthquake damage simulation

### Heterogeneous Spatiotemporal Data Fusion Methods for Community Safety

Beijing, China

Diploma Project

Feb 2020 – June 2020

Advisor: Yi Liu, Associate Professor, Department of Engineering Physics, Tsinghua University

## ⚙️ Skills

Programming Languages: C/C++, Fortran, Java, Python, Wolfram

Experienced in MySQL, Pytorch, OpenCV, OpenGL, Mathematica and other programming tools

## 👜 Internship Experience

### One Map for Emergency Management

Beijing, China

Beijing Global Safety Technology Co., Ltd

July 2019 – Aug 2019

- Reviewed quantity of former emergency management techniques
- Helped with the testing part of *One Map* platform

## 🏆 Honors and Awards

School-Provided Scholarship (Study Scholarship)

Oct 2017

The 12th Tsinghua University Smart Car Competition, Third prize (6 out of 20 groups)

Dec 2017

Friend of Tsinghua – Li Canjie Scholarship (Study Scholarship) (1 out of 160 students)

Oct 2018

School-Provided Scholarship (Study Scholarship)

Oct 2019