

# Zishuo ZHAO

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## 1 Background

- **2021/01 - now** PhD student, Department of Industrial & Enterprise Systems Engineering, University of Illinois Urbana-Champaign  
Research Area: Operations Research
- **2020/08 - 2021/01** Research Assistant, Haihua Institute for Frontier Information Technology
- **2016/05 - 2020/07** Undergraduate student, Yao Class, Institute for Interdisciplinary Information Sciences, Tsinghua University
- **2015/08 - 2016/05** Undergraduate student, Department of Computer Science and Technology, Tsinghua University
- **2012/09 - 2015/06** No.1 Middle School Affiliated to Central China Normal University

## 2 Research Interests

I am a third-year PhD student in UIUC, majoring in operations research, and currently doing research in blockchain mechanism design. My research interests also span a wide scope including scheduling, pricing, fair division, algorithm design, mechanism design and game theory. I have an affection for adopting the ideas and tools in theoretical computer science into applications of modern research topics including optimization and mechanism design.

Beside my major, I have an amateur interest in computational geometry and topology, which was my research interest during undergraduate time. I have always been excited to solve or prove research problems with geometric and topological inspirations.

I also have an interest in Capture-The-Flag(CTF) competitions, especially in Crypto and Reverse.

## 3 Research

### 3.1 Publications

#### **Dynamic Car Dispatching and Pricing: Revenue and Fairness for Ridesharing Platforms**

Zishuo Zhao, Xi Chen, Xuefeng Zhang, Yuan Zhou

Accepted for IJCAI 2022, Long Oral (3.75%). [\[Link\]](#)

#### **ClusterSLAM: A SLAM Backend for Simultaneous Rigid Body Clustering and Motion Estimation**

Jiahui Huang, Sheng Yang, Zishuo Zhao, Yukun Lai, Shi-Min Hu.

Accepted for ICCV 2019. [\[Link\]](#)

## 3.2 Working Papers

### **Bayesian-Nash-Incentive-Compatible Mechanism for Blockchain Transaction Fee Allocation**

Zishuo Zhao, Xi Chen, Yuan Zhou

## 4 Talks

### **Dynamic Car Dispatching and Pricing: Revenue and Fairness for Ridesharing Platforms**

Zishuo Zhao, Xi Chen, Xuefeng Zhang, Yuan Zhou

Invited to INFORMS Annual Meeting 2021

## 5 Academic Activities

- Facilitator in section Revenue & Pricing, INFORMS Annual Meeting 2021
- Challenge developer of TQLCTF 2022

## 6 Awards

- 12th place in 2nd THUCTF Information Security Contest in Tsinghua University, 2020
- 12th place in 24th Artificial Intelligence Programming Contest in Tsinghua University, 2020
- Baidu Scholarship for Arts Excellence, 2018
- Xuetang Scholarship, 2016-2020
- 15th place in 20th Artificial Intelligence Programming Contest in Tsinghua University.
- Second Prize in Chinese Mathematical Olympiad(CMO), 2014
- First Prize in National Olympiad in Informatics in Provinces(NOIP), 2013

## 7 Coding Skills

- Mainly using C++ and MATLAB, also with command of Python, Java, PHP.
- With some knowledge in Verilog HDL and assembly language.
- Open to learn new programming languages when in need.

*(Updated on Aug 15, 2022)*