

# Jiawei Li

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## Education

**University of Texas, Austin, CS Department**

2022/01 –

Ph.D. in progress

Advisor: Prof. Scott Aaronson

**Peking University, School of EECS, Turing Class**

2016/09 – 2020/07

Bachelor's in science, Overall GPA: 3.73/4.0

## Research Interests

**Currently:** Classical and Quantum Computational Complexity; AI Safety / Alignment / Interpretability.

**Previously:** Algorithmic Game Theory, Optimization, Approximation Algorithm.

## Publications and Preprints

[1]. **On the Approximation of Nash Equilibria in Sparse Win-Lose Multi-player Games.**

Zhengyang Liu, Jiawei Li, and Xiaotie Deng. **AAAI-21.**

[2]. **The Query Complexity of Local Search and Brouwer in Rounds.**

Simina Brânzei, Jiawei Li. **COLT-22, Minor revision in Mathematical Statistics and Learning.**

[3]. **Consensus Division in an Arbitrary Ratio.**

Paul Goldberg, Jiawei Li. **ITCS-23.**

[4]. **Pandora Box Problem with Nonobligatory Inspection: Hardness and Improved Approximation Algorithms.**

Hu Fu, Jiawei Li, and Daogao Liu. **STOC-23**

[5]. **Total NP Search Problems with Abundant Solutions**

Jiawei Li. **ITCS-24**

[6]. **On Pigeonhole Principles and Ramsey in TFNP**

Siddhartha Jain, Jiawei Li, Robert Robere, Zhiyang Xun. **FOCS-24.**

[7]. **Metamathematics of Resolution Lower Bounds: A TFNP Perspective**

Jiawei Li, Yuhao Li, Hanlin Ren. Preprint.

[8]. **Quantum Communication Advantage in TFNP**

Mika Göös, Tom Gur, Siddhartha Jain, Jiawei Li. **STOC-2025 & QIP-2025.**

## Service

Teaching Assistant, *Approximation Algorithm*, UT Austin

Spring 2023

Teaching Assistant, *Quantum Information Science I*, UT Austin

Fall 2022

Teaching Assistant, *Discrete Math II*, Peking University, Turing Class

Spring 2019

Conference: reviewer for ICALP 2019, ITCS 2024, STOC 2024, CCC 2024, ITCS 2025, STOC 2025

Journal: sub-reviewer for TCS, SICOMP

## Awards and Honors

ICPC North America Championship, 13th Place (Advanced to World Finals)

2022/05

ICPC South Central USA Regional Contest, 2nd Place

2022/03

“Fangzheng” Scholarship in EECS, Peking University

2019/10

ICPC, Qingdao Regional, Gold Prize

2018/10

First price of “PDZF” Scholarship in EECS, Peking University

2018/10

National Olympiad in Informatics 2015: Gold Prize

2015/07