Yiren Lu

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https://yiren.lu

Education

Institute of Computing Technology, Chinese Academy of Sciences
Beijing, China
Master's candidate in Computer Software and Theory 2022.08 - present

- Advisor: Xiaoming Sun
- Research area: quantum computation, theoretical computer science

School of Computer Science, Beijing University of Posts and Telecommunications
Beijing, China
Bachelor of Engineering in Computer Science and Technology 2018.09 - 2022.07

- GPA: 90.34/100 (5%)

Research

1. **Yiren Lu**, Junhong Nie, Xiaoming Sun, Guojing Tian. Optimized synthesis of 2-degree parity network. *In submission*, 2024.
2. **Yiren Lu**, Guojing Tian, Xiaoming Sun. QAOA with fewer qubits: a coupling framework to solve larger-scale Max-Cut problem. *arXiv preprint arXiv:2307.15260*, 2023.

Awards and Honors

- **CCF Outstanding Undergraduate Award**, China Computer Federation 2021.08
- **Gold Medal (ranking 6/1000+)**, CCF Collegiate Computer Systems & Programming Contest (CCSP 2020) 2020.10
- **Silver Medal**, International Collegiate Programming Contest (ICPC), Asia East Continent Final 2019.12
- **Silver Medal**, China Collegiate Programming Contest (CCPC), Guilin Onsite 2018.11
- **Bronze Medal**, National Olympiad in Informatics (NOI 2017) 2017.07
- **Silver Medal**, National Olympiad of Informatics' Winter Camp (WC 2017) 2017.02

Interests

Quantum computation: quantum circuit synthesis, variational quantum algorithms
Graph theory: recognition of graph classes, quantum speed-up for graph problems
Other random topics: approximation algorithms, computational complexity

Teaching Assistants

Quantum Computation and Quantum Software
University of Chinese Academy of Sciences Spring 2024

Data Structures I
Renmin University of China Autumn 2024

Skills

Languages: Chinese, English (TOEFL 106, GRE 324+4)
Programming: `Python`, `C++`, `JavaScript`, `LaTeX`
Cooking

Academic Services

Reviewer: *Quantum Science and Technology*