YIREN LU

luyiren12@gmail.com
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*