

# YIREN LU

luyiren12@gmail.com - yiren.lu - Google Scholar - ORCID - Github



EDUCATION	<p><b>Institute of Computing Technology, Chinese Academy of Sciences</b> Beijing, China <i>MSc(Eng) in Computer Science and Technology</i> 2022.08 - 2025.07</p> <ul style="list-style-type: none"><li>• Advisor: <b>Prof. Xiaoming Sun</b></li><li>• Research focus: quantum computation, variational quantum algorithms</li></ul> <p><b>Beijing University of Posts and Telecommunications</b> Beijing, China <i>B.Eng. (with honours) in Computer Science and Technology</i> 2018.09 - 2022.07</p> <ul style="list-style-type: none"><li>• GPA: 90.34/100 (5%)</li><li>• Student coach of the school competitive programming team</li><li>• Problem setter of several important programming contests</li></ul>
RESEARCH	<ol style="list-style-type: none"><li>1. Yixin Cao, <b>Yiren Lu</b>, Junhong Nie, Xiaoming Sun, Guojing Tian. Toward Minimum Graphic Parity Networks. <i>Work in progress</i>, 2025. (<a href="#">pdf</a>)</li><li>2. <b>Yiren Lu</b>, Guojing Tian, Xiaoming Sun. QAOA with fewer qubits: a coupling framework to solve larger-scale Max-Cut problem. <i>arXiv preprint arXiv:2307.15260</i>, 2023. (<a href="#">pdf</a>)</li></ol>
AWARDS & HONORS	<ul style="list-style-type: none"><li>• <b>CCF Outstanding Undergraduate Award</b>, China Computer Federation 2021.08</li><li>• <b>Gold Medal (ranking 6/1000+)</b>, CCF Collegiate Computer Systems &amp; Programming Contest (CCSP 2020) 2020.10</li><li>• <b>Silver Medal</b>, International Collegiate Programming Contest (ICPC), Asia East Continent Final 2019.12</li><li>• <b>Silver Medal</b>, China Collegiate Programming Contest (CCPC), Guilin Onsite 2018.11</li><li>• <b>Bronze Medal</b>, National Olympiad in Informatics (NOI 2017) 2017.07</li><li>• <b>Silver Medal</b>, National Olympiad of Informatics' Winter Camp (WC 2017) 2017.02</li></ul>
INTERESTS	<p><b>Parameterized algorithms</b>: algorithmic meta theorems</p> <p><b>Graph theory</b>: graph classes, quantum speed-up for graph problems</p> <p><b>Quantum computation</b>: quantum circuit synthesis, variational quantum algorithms</p>
TEACHING ASSISTANTS	<p><b>Quantum Computation and Quantum Software</b> (Instructor: Guojing Tian) University of Chinese Academy of Sciences Spring 2024</p> <p><b>Data Structures I</b> (Instructor: Guojing Tian) Renmin University of China Autumn 2024</p>
SKILLS	<p><b>Languages</b>: Chinese, English (TOEFL 104, GRE 324+4)</p> <p><b>Coding</b>: Python, C++ , JavaScript, LaTeX</p>
ACADEMIC SERVICES	<p><b>Reviewer</b>: Journal of Combinatorial Optimization, Quantum Science and Technology, Physica Scripta</p>
HOBBIES	<ul style="list-style-type: none"><li>• cooking</li><li>• working out in gym</li></ul>