

Longcheng Li

Cambridge, UK | lilongcheng116@gmail.com | longcheng.li

Education

University of Cambridge , Cambridge, UK	Jan 2026 –
• PhD in Computer Science Supervisor: Tom Gur	
University of Chinese Academy of Sciences , Beijing, China	Sep 2022 – Jun 2025
• MS in Computer Science GPA: 3.93/4.0 Supervisor: Jialin Zhang	
University of Chinese Academy of Sciences , Beijing, China	Sep 2018 – Jun 2022
• BS in Computer Science GPA: 3.92/4.0 Rank 2/104	

Publications

*Authors are listed in alphabetical order unless specified otherwise.

1. **Logical Operations with a Dynamical Qubit in Floquet-Bacon-Shor Code** [DOI]
Xuandong Sun, L. Li (co-first author), Zhiyi Wu, et al.
Physical Review Letters, 135, 220601 (2025)
2. **Toward the Impossibility of Perfect Complete Quantum PKE from OWFs** [DOI]
L. Li, Qian Li, Xingjian Li, Qipeng Liu
Innovations in Theoretical Computer Science (ITCS), 2025
3. **Quantum Byzantine Agreement Against Full-Information Adversary** [DOI] [PDF]
L. Li, Xiaoming Sun, Jiadong Zhu
International Symposium on Distributed Computing (DISC), 2024
4. **How (not) to Build Quantum PKE in Minicrypt** [DOI]
L. Li, Qian Li, Xingjian Li, Qipeng Liu
Annual International Cryptology Conference (CRYPTO), 2024
5. **Fast exact synthesis of two-qubit unitaries using a near-minimum number of T gates** [DOI]
L. Li (first author), Cheng Guo, Qian Li, Xiaoming Sun
Physical Review A, 107 (4), 042424 (2023)

Teaching

Teaching Assistant of <i>Combinatorics</i>	UCAS, Fall 2023
Teaching Assistant of <i>Introduction to Computer Science</i>	UCAS, Spring 2020

Visiting

Southern University of Science and Technology , Shenzhen, China	Mar 2024 - Jun 2024
• Visiting Student on quantum error correction Advisor: Youpeng Zhong	
National University of Singapore , Singapore	Aug 2021 - Dec 2021
• Non-Graduating Programme (Coursework)	

Awards

National Scholarship	Nov 2024
Silver Medal, <i>45th International Collegiate Programming Contest Asia East-Continent Final</i>	Apr 2021

Skills

Coding: C/C++, Python, HTML/CSS/JS

English: TOEFL 106/120 (Reading 30, Listening 28, Speaking 23, Writing 25)