

# Longcheng Li

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## Education

<b>University of Cambridge</b> , Cambridge, UK	Jan 2026 –
• PhD in Computer Science    Supervisor: Tom Gur	
<b>University of Chinese Academy of Sciences</b> , Beijing, China	Sep 2022 – Jun 2025
• MS in Computer Science    GPA: 3.93/4.0    Supervisor: Jialin Zhang	
<b>University of Chinese Academy of Sciences</b> , 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.

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

<b>Southern University of Science and Technology</b> , Shenzhen, China	Mar 2024 - Jun 2024
• Visiting Student on quantum error correction    Advisor: Youpeng Zhong	
<b>National University of Singapore</b> , 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)