

ZHENGYI HAN

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Personal Website: <https://pkucshzy.github.io> ·

EDUCATION

Peking University, Beijing

Sep 2019 - July 2023 (expected)

BS in computer science and technology, EECS Overall GPA: 3.41/4.00

RESEARCH INTERESTS

- Quantum Computation (Quantum Algorithm for Algebraic Problems, Quantum Walk)
- Quantum Information (Quantum Nonlocality)

RESEARCH EXPERIENCE

Research on Quantum Algorithms for Number Theory

Jun 2021 - Jan 2022

Undergraduate Research Student Advisor: Tongyang Li

- Attempt to improve Helfgott's sieve method using techniques of quantum algorithms, design a quantum algorithm for Zeta function, and extend the quantum Fourier Transform to local field.

Research on Quantum Algorithms for Supersingular Isogeny Problem

Jan 2022 - Oct 2022

Undergraduate Research Student Advisor: Tongyang Li

- **Quantum Algorithms for Supersingular Isogeny Problems.** Use varieties techniques of quantum algorithms to solve the supersingular isogeny problems of elliptic curves, and compare recent methods.

Research on the Compression Theorem for non-local games

Aug 2022 - present

Undergraduate Research Student Advisor: Zhengfeng Ji

ACADEMIC EXPERIENCE

Seminar on Theoretical Computer Science, Peking University

Mar 2021 - Jul 2021

Summer School on QCQI, USTC

Jul 2021 - Jul 2021

Seminar on the Quantum Walk, Chinese Academy of Science

Sept 2021 - Jul 2022

Seminar on the Interactive Proof, Tsinghua University

Mar 2022 - Jun 2022

- The seminar is about varieties of classic interactive proof, organized by Zhengfeng Ji.

Seminar on the Coding Theory, Tsinghua University

Sept 2022 - present

- The seminar is about both classic and quantum coding theory , organized by Zhengfeng Ji.

Seminar on the computation and Physics, Peking University

2022 Winter

- The seminar is organized by **myself**. The website is **here**.

HONORS AND AWARDS

- Beijing Municipality, **Beijing Innovative Talent Project for Undergraduate**.

SKILLS & INTERESTS

- **Programming Languages:** C/C++, Python, R, \LaTeX , HTML, CSS, Mathematica
- **Personal Interests:** Reading math books, badminton, table tennis, singing, literature.