CHANG SHI

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EDUCATION

Peking University — Yuanpei College — Sep 2023 – Jun 2027 (Expected)

B.S. in Computer Science and Technology, **Turing Class** — GPA: **3.86** / 4.00, Rank: **12** / 164

PUBLICATION

- Achieving Tight Space-Time Tradeoff and Practical Performance in Preprocessing PIR with Multi-level Recursion. *To appear in **IEEE S&P 2027***.
  Chang Shi, Bo Peng, Zhechen Li, Cheng Hong, Mingxun Zhou.
- PRIMUS: Preprocessing Private Information Retrieval for Lightweight Clients. *To appear in **Asiacrypt 2026***.
  Chang Shi, Bo Peng, Zhechen Li, Cheng Hong, Mingxun Zhou.
- O2N2: Efficient Doubly Oblivious Approximate Nearest Neighbor Search. *Under review.*
  Zhechen Li, Zimai Guo, Mingxun Zhou, **Chang Shi**, Cheng Hong

EXPERIENCE

Undergraduate Research

- Advised by **Prof. Mingxun Zhou**, HKUST, May 2025 - present.
  Proposed new frameworks to reduce the client storage and client-server communication cost of private information retrieval (PIR).
- Advised by **Prof. Elaine Shi**, CMU, Jul 2026 - present.
  Studied function secret sharing and its application in privacy-preserving machine learning.

Teaching Assistant

- 2026 Fall, Discrete Mathematics and Structures (I).
- 2026 Spring, Super Individual in the AI Era: A Hands-On Guide to AI Programming from Scratch.
- 2025 Fall, Introduction to Computer Systems.
- 2025 Spring, Artificial Intelligence Practice.

Community Service

- Vice president of Yuanpei Academic Societies of Students, Jul 2026 – present.
- Co-founder of Peking University Turing Seminar Series, 2026.
- President of the information technology society in Yuanpei College, Jul 2025 – Jun 2026.

SELECETED AWARDS

- Robin Li Scholarship, 2026 (**Top 1%**, one of the **highest-level** scholarships at PKU)
- Merit Student of Peking University, 2025 – 2026
- S.-T. Yau College Student Mathematics Contest (Probability and Statistics track) Excellence Award, 2026
- Yanchuang Group Scholarship, 2025
- Merit Student of Peking University, 2024 – 2025
- Second Prize in the 33rd Challenge Cup of Peking University, 2025
- First Prize in the 16th Chinese Mathematics Competitions for College Students, 2024
- Suzhou Industrial Park Scholarship, 2024
- Qualcomm Boya Scholarship, 2023 – 2027 (**awarded to 100 among 17k undergraduates** at PKU)
- Merit Student of Peking University, 2023 – 2024
- Second-Class Freshman Scholarship of Peking University, 2023
- Silver medal in the 36th Chinese Chemistry Olympiad (final round), 2022
- First Prize in the National Olympiad in Informatics in Provinces (NOIP) 2021