

Jialiang Tang

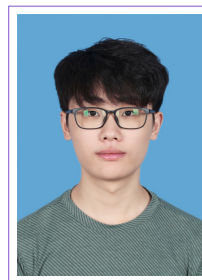
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Education

- 2024–present **Ph.D in Computer Science**, *Institute of Computing Technology, Chinese Academy of Sciences*, Beijing, China.
Supervisor: Prof. Xiaoming SUN.
Research: Quantum circuit synthesis, Quantum machine learning.
- Fall, 2023 **Visiting Student**, *Department of Electrical Engineering and Computer Sciences, University of California, Berkeley*, Berkeley, CA, USA.
Fully funded by University Scholarship Program.
Selected Courses: CS61A: Structure and Interpretation of Computer Programs (A+), CS188: Introduction to Artificial Intelligence (A+), CS170: Efficient Algorithms and Intractable Problems (A).
- 2020–2024 **Bachelor in Computer Science, Minor in Mathematics**, *School of Computer Science and Technology, University of Chinese Academy of Sciences*, Beijing, China.
GPA: 3.87/4.0
Rank: 13/115

Publications

- 2026 **Jialiang Tang**, Jialin Zhang and Xiaoming Sun. SAQNN: Spectral Adaptive Quantum Neural Network as a Universal Approximator. Accepted by ***International Conference on Machine Learning (ICML 2026)***.
- 2025 **Jialiang Tang**, Jialin Zhang and Xiaoming Sun. Quantum circuit synthesis with SQiSW. ***Quantum***, 9, 1889. doi: 10.22331/q-2025-10-20-1889. url: <https://doi.org/10.22331/q-2025-10-20-1889>.

Awards

- 2026 **Third Award** of the CCF Spin-Q Cup Quantum Computing Programming Challenge (top 9 out of 559 teams)
- 2025 **Freshmen Scholarship** granted by Institute of Computing Technology, CAS (12 out of 495).
- 2024 **Bronze Award** of 49th ICPC Asia Regional Contest in Nanjing.
- 2024 **Leeuwenhoek Award** of 3rd CCF "Sinan" Cup Quantum Programming Contest.
- 2024 **Excellent Undergraduate Thesis** granted to "Quantum circuit synthesis with SQiSW" by UCAS (top 8%).
- 2021–2023 **Academic Scholarship** granted by UCAS (for each year, top 15%).
- 2022 **Outstanding Student of Beijing** granted by Beijing Municipal Committee of the Communist Youth League (8 out of 66292 in UCAS).

Skills

Programming Python (with Qiskit), Git, Linux, C, HTML, Verilog
Writing LaTeX (with yquant, Tikz, beamer)
Language IELTS 7.0 (Reading 8.5)

Services

2026 **High School Talent Program of Beijing**, Teaching Assistant.
2026 **Public Science Day of Chinese Academy of Sciences**, Volunteer.
2024 **The Great Wall Marathon of Huairou & The 58th Beijing Open Half Marathon Park Run**, Volunteer.
Spring, 2023 **Experiments of Computer Organization**, Teaching Assistant.
2022 **2022 Beijing Winter Olympics**, Volunteer.