KAICHU CHEN

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Xi'an Jiaotong University, No.28, Xianning West Road, Xi'an, Shaanxi, 710049, P.R. China

EDUCATION

Xi'an Jiaotong University — **Xi'an, China**
B.S. in Physics, Quantum Information
(Strengthening Basic Disciplines Program) — **Aug. 2020 – Present**
B.S. in Finance (minor) — **Feb. 2022 – Present**
GPA: 86/100 — **Ranking: Top 3 of 22**
(rankings are not accessible currently)

RESEARCH INTERESTS

quantum information, quantum computing, quantum algorithms and quantum machine learning.

RELATED COURSEWORK

- **Computational Physics: 96/100**
- **Quantum Mechanics: 89/100**
- **Opto-electronics: 95/100**
- **Introduction to Artificial Intelligence: 90/100**

RELATED EXPERIENCE

Quantum Resource Theory Salon

- **Improve basic research capacities; Discuss around the foundation of quantum resource theory including classification, transformation, measurement and so on.**
- **Mentor: Quan Quan**
- **March 2021-June 2021**

Quantum sensing Research Training

- **Study around quantum optics and NV center system; Implement a proof-of-concept gyroscope based on Nitrogen nuclear spin in NV system that measuring rotation speed in double quantum Ramsey procession.**
- **Mentor: Pengbo Li**
- **November 2021-Now**

Quantum Summer Seminar of USTC

- **Discuss and research around Quantum Computation and Quantum Information, Neilson & Chuang and pioneering papers in the field of quantum information and quantum computing.**
- **Mentor: Zhaofeng Su**
- **July 2022-October 2022**

Quantum Foundations Research

- **Push forward an approach for quantitatively analyzing the genuine tripartite nonlocality of general three-qubit states and canonical forms of quantum states under local operations.**
- **Mentor: Zhaofeng Su**
- **October 2022-Now**

Final Coursework of Electrodynamics Course

- **Presentation about Josephson junction, superconducting quantum interference Device and superconducting quantum computation systems.**
- **Mentor: Hongfei Zhang**

Final Coursework of Opto-Electronics Course

- **Presentation about application of NV center to quantum computation.**
- **Mentor: Hong Gao**

Final Coursework of Computation Physics Course

- **Implement semiclassical quantization of molecular vibrations that uses appropriate integral function and root function in matlab; Implement numerical analysis of white dwarf models in matlab.**
- **Mentor: Jianxing Li**

Final Coursework of AI course

- **Implement an intelligent Go program that uses MinMax and Alpha Pruning algorithms in Python to achieve the optimal Go strategy and defeat robots and competitors; Presentation about HHL algorithm and Quantum SVM algorithm.**
- **Mentor: Hui Cao**

The Third Prize Scholarship **XJTU; 2020-2021, 2021-2022**

SKILLS

Languages	**C, Python, Matlab, Latex**
Tools	**Comsol, Origin, Endnote, Github**
Soft Skills	**Time Management, Communication, Problem Solving, Accountability**

PERSONAL

Club	**Karate, Robomaster, Table tennis**
Volunteer	**National College Physics Experiment Competition**