



## Zeqiao Zhou

Department of EEIS

School of Information Science and Technology

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🐙 GitHub Profile

## EDUCATION

### •University of Science and Technology of China (USTC)

2021.09-2024.06

*Master in Information and Communication Engineering*

- Master thesis: “Graph Algorithm based Resource optimization and Architecture Design of Quantum Circuits” supervised by Prof. Dacheng Tao and Prof. Xinmei Tian

### •University of Science and Technology of China (USTC)

2017.09-2021.06

*Bachelor in Computer Science and Technology,*

GPA:3.54 (25%)

- I am graduated from Talent Program in Artificial Intelligence and School of the Gifted Young
- Bachelor thesis: “Fair Quantum Classifier” supervised by Prof. Dacheng Tao and Prof. Xinmei Tian

## RESEARCH INTEREST

AI for Science and Quantum machine learning, specifically I focus on how to use classical machine learning techniques to facilitate the implementation of quantum algorithms (AI4Quantum), and how these quantum algorithms can eventually solve practical problems.

## EMPLOYMENT EXPERIENCE

### •JD Explore Academy

2020.12-2022.04

*Quantum Algorithm Engineer Internship*

Beijing

- I study how quantum computing can be utilized to design hybrid machine learning classifier for fairness.

## RESEARCH PROJECTS

### •Quantum inspired Probabilistic Quantized Network

2024-now

*Working with Dr. Yuxuan Du@NTU*

- Exploring the practical application of quantum computing in quantizing neural networks.

### •Deep learning for Quantum Sensing

2023-2024

*Worked with Dr. Yuxuan Du@JD and Dr. Xufei Yin@USTC*

- Leverage deep learning model to design the optical quantum experiment setups for quantum sensing task in agnostic environment.

### •Quantum Approximate Optimization Algorithm for MaxCut

2021-2022

*Worked with Dr. Yuxuan Du@JD during my internship at JD.*

- Designed a recursive QAOA scheme that can solve large MaxCut problems on small quantum devices.

## SCHOLARSHIP & AWARDS

- Master Scholarship 2021-2023, USTC
- Outstanding Bachelor Graduate Award 2021, USTC
- Zhang Zongzhi Technology Scholarship 2018, USTC
- Undergraduate Freshman Scholarship 2017, USTC

## PUBLICATIONS

- **Zeqiao Zhou**, Yuxuan Du, Xinmei Tian, and Dacheng Tao. “QAOA-in-QAOA: Solving Large-Scale MaxCut Problems on Small Quantum Machines” *Phys. Rev. Applied*, 19, 024027. [\[Link\]](#) (Published 9 Feb 2023)

## MANUSCRIPTS

- **Zeqiao Zhou**, Yuxuan Du, Xu-Fei Yin, Shanshan Zhao, Xinmei Tian, Dacheng Tao. “Optical Quantum Sensing for Agnostic Environments via Deep Learning” [\[Link\]](#)

## ACADEMIC SERVICE

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- I was invited as a reviewer for Quantum Machine Intelligence (QMI), IOP Science Machine Learning: Science and Technology (MLST), Science China Information Sciences (SCIS).

## SKILLS

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- Programming Language: Python, C/C++, Verilog
- Deep Learning Library: Pytorch, Pyg
- Quantum toolkit: PennyLane, Qiskit