Ziyan Zhang

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EDUCATION

2021-2023	**M.Sc.** at Shenzhen Institute for Quantum Science and Engineering
	Southern University of Science and Technology, Shenzhen, China
	Supervisor: Prof. Fei Yan, co-supervised by Prof. Yuan Xu
	Thesis: in-situ Flux Pulse Pre-Distortion in a Quantum Processor
2017-2021	**B.Sc. Computer Science**
	Beijing University of Technology, Beijing, China
	GPA: 3.51/4.00
	Supervisor: Prof. Xinwu Liu
	Thesis: Design and Implementation of ECG Monitoring System Based on Machine Learning
2018-2020	**Visiting Student**
	University College Cork, Cork, Ireland
	Full scholarship (Irish Government & CSC)

EXPERIENCE

2021.9-Present — Shenzhen Branch, Hefei National Laboratory

Master student, Superconducting Quantum Computing Group

Interested Area: Improve gate fidelity by decreasing the flux pulse distortion; Processor design

- Build up a convenient and robust python-based flow control system for the lab, including instrument controller, measurement functions, and calibration functions.
- Fabrication and calibration of a 16-qubit (and larger scale) processor.

2020.7-2020.10 — Aerospace Information Research Institute, Chinese Academy of Sciences

Research Assistant

Supervisor: Dr. Ling Peng

- Participate in the project "Research and Development of Rapid Collaborative Sensing Technology for Unconventional Emergencies for on-site Emergency Response".
- Proposed a GIS data trained NLP model for name entity recognition task.

2019.11-2020.3 — Insight Centre for Data Analytics

Research Assistant

- Participate in the project 'Privacy-Preserving and Explainable Recommendation Engine Based on AI'.
- In charge of data processing.

HONERS & AWARDS

2020	MCM/ICM American College Students Mathematical Modeling Contest, Honorable Mention
2019	IEEExtreme 13.0 Extreme Programming Competition, Ranking 234/4103
2018	Irish Government & CSC Scholarship

SKILLS

Courses: Abstract Algebra, Advanced Algorithms, Advanced CMOS Chip Design, Linear Algebra, Mathematical Statistics

Digital: Python, MySQL, C, C++, Java, Neo4j, HTML, CSS, PHP

Language: English (IELTS overall 7.0)