

# Ziyan Zhang

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Github: github.com/ZiyanZhang98



## EDUCATION

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- 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 Posts and Telecommunications, 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

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- 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

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

## SKILLS

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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)