

Bin Quan

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Educational Background

School of Medicine Information Engineering, Guangzhou University of Chinese Medicine, China

Sept.2019-Present

- **Bachelor of Computer Science (expected in Jun. 2023)** GPA: 4.1/5.0 Rank: 1/74 CET-4: 506 | CET-6: 449
- **Major courses:** Advanced Mathematics, Linear Algebra, Probability Theory and Mathematical Statistics, Discrete Mathematics, Data Structures and Algorithms, Principles of Computer Organization, Operating System, Computer Network, Database System Principle and Design, Artificial Intelligence, Programming Design (C, C++ and Java)
- **Awards & Honors:** The First Prize Scholarship & Pacemaker to Merit Student (top 2% of school)
Excellent Comprehensive Scholarship of New South (top 1% of school)
Wanglaoji Scholarship (Academic Excellence), Excellent League Member etc.

Academic Research & Professional Experience

Publications (about Intelligent Fetal Monitoring Algorithm)

- Research on the Design of Active Learning Algorithm based on Query-by-Committee for Intelligent Fetal Monitoring, 2021 IEEE International Conference on Bioinformatics and Biomedicine. (CCF-B, Regular paper), 2021. — **First Author (Academic Oral Presentation)**
- Intelligent classification of antepartum cardiotocography model based on deep forest, Biomedical Signal Processing and Control, 2021. — **Fourth Author**

The 16th "Challenge Cup" Guangdong College Student Curricular Academic Science and Technology Works Competition [The First Prize, One of Mainly Completed Members]

Nov.2020-Jul.2021

- Project Name: Study on Intelligent Classification of Antepartum Cardiotocography Monitoring System based on Deep Forest.
- Project Description: This project aims to realize the intelligent interpretation of fetal heart monitoring model and its online deployment, which is of great significance to assisting physicians in diagnosing diseases.
- Main Contributions: I was responsible for writing part of the declaration form, assisting the teammate in presentations and PPT production, and analyzing the questions raised by the review experts and the application scenarios of the project.

The 15th China Undergraduate Computer Design Contest [The Third Prize, Team Leader]

Mar.2022-Aug.2022

- Project Name: Distributed Antepartum Fetal Monitoring System based on Multi-modal Deep Learning Strategy.
- Main Contributions: As a team leader, I was responsible for the smooth development of the entire project, coordinating the division of labor among the teams, conducting final review presentations, and answering questions from experts.

College Students' Innovative Entrepreneurial Training Plan Program [The School-Level Project, Leader]

Jun.2021-Jun.2022

- Project Name: Research on Intelligent Fetal Heart Monitoring System based on the Combination of Deep Learning and Attention Mechanism.
- Main Contributions: During the implementation phase, I mainly completed various related tasks.

Other Relevant Experience

- College Students' Innovative Entrepreneurial Training Plan Program [The National Level Project, Participant], 2022.
- The 9th "Teddy Cup" National Data Mining Challenge, 2021. [The Third Prize]
- The 6th Literature Information Retrieval Competition of GZUCM, 2021. [Team Excellence Award]
- Cooperation project with the Third Affiliated Hospital of Sun Yat-Sen University:
Analysis of brain volume changes in patients with Neuromyelitis Optica Spectrum Disorder (NMOSD) and the factors affecting them.

Campus Experience

Position of Student

- Served as the Head of the Self-Discipline Department of the Student's Union of the college, I was mainly responsible for the school attendance inspection and the construction of study style. *Sept.2020-Jun.2021*
- Served as the class League Branch Secretary, I was engaged in the league work and to assist the other class cadres to do a good job in class daily work. *Sept.2021-Present*

Teacher assistant job

- Assisted the teachers to complete the compilation of the textbook "Medical Data Processing and Analysis (Excel)" and served as the teaching assistant of the college teachers' "Medical Statistics" course.
- Part-time work in the School of Traditional Chinese Medicine of my university. My main job content was to update relevant information and staff resumes on the official website. *Sept.2021-Present*

Skills & Interests

- Skilled in Python, C/C++, and Data Analysis & Graphing Software. Familiar with Linux, MATLAB, and Latex.
- Hobbies: Reading, Writing, Running, and Listening to music.