

# YAoyao Qian

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## EMPLOYMENT

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**Zhejiang Chongxiao Zhong Han Medical Technology Co**

May 2020 - Present

*Technical Manager*

- Built a development team from scratch and led the development of the internal management system; responsible for writing key code and controlling code quality and project progress.
- Developed a VC++-based DBI (full name...) tool from scratch to facilitate the data flow from Access to Oracle, improving data efficiency by 30%.
- Developed an e-invoice management system interfaced with the hospital system using Springboot and Vue, improving business efficiency by 80%.

## EDUCATION

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**Wenzhou University of Technology**

September 2016 - June 2020

*B.Eng. in Computer Science*

- GPA: 3.69/4.00 (Top 5%)
- Advisor: Dr. Xu Xu
- Thesis: Dynamic Simulation Model of Airport Taxi Optimal Allocation
- Relevant Courses: Python Programming (96), Java Language Programming (96), Linear Algebra (94), JavaScript Language (99), Web Applied System Development (97), Mathematical Modelling and Experiments (95)

## PUBLICATIONS

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- **Yaoyao Qian** and Xianming Wang, "Analysis of Football Game Performance Based on Social Network," Proceedings of the 2022 International Conference on Artificial Intelligence, Internet and Digital Economy (ICAID), 2022.
- **Yaoyao Qian**. 2019. Arrival management device of new energy vehicle. CN Patent 201811144318.1. Issued March 08, 2019.
- **Yaoyao Qian**. 2018. Auxiliary construction terminal for construction worker. CN Patent 201810682890.7. Issued November 27, 2018.
- **Yaoyao Qian**. 2018. Convenient and fast type automobile solar protection device. CN Patent 201810489253.8. Issued October 19, 2018.
- **Yaoyao Qian**. 2018. Dual-purpose grabbing device with good supporting property for automobile tire. CN Patent 201810490339.2. Issued October 19, 2018.
- **Yaoyao Qian**. 2018. Tire leakage speed detecting device. CN Patent 201810489850.0. Issued September 28, 2018.
- **Yaoyao Qian**. 2018. Fireproof wireless base station. CN Patent 201810108827.2. Issued September 04, 2018.
- **Yaoyao Qian**. 2018. Clothes conveying device based on big data of fitting room. CN Patent 201810056907.8. Issued June 01, 2018.

## RESEARCH EXPERIENCE

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**Wenzhou University of Technology, Wenzhou, China**

April 2020 - May 2020

*Research Assistant to Dr. Xianming Wang*

- Analyzed impact factors of soccer teams strategies based on soccer game records.

- Conducted analytical modeling of contest records using social networks and degree centrality.
- The analysis of the Huskies and related soccer games revealed that teams were more focused on coordination and communication than individuals.

**Institute of Modeling and Data Mining, Wenzhou, China**      July 2019 - December 2019  
*Research Assistant to Dr. Xu Xu*

- Collected shopping site reviews from Amazon using BeautifulSoup.
- Conducted sentiment analysis on the corpus using Textblob.
- Created a user profile of the commenters using Wordcloud.

**Wenzhou Bopu Institute of Big Data, Wenzhou, China**      September 2018 - January 2019  
*Technical Leader, Supervisor: Dr. Xianming Wang*

- Conducted public opinion analysis based on news content crawled from Wenzhou News Network.
- Conducted Dictionary-based sentiment analysis.
- Implemented knowledge graph presentation by structuring a single news article.
- Used TextRank4ZH for news topic word extraction and topic "hotness" visualization.

## PROJECTS

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**Bristol-Myers Squibb – Molecular Translation**      April 2021 - May 2021  
*Independent Project (Kaggle 88/874, top11%)*

- Converted images back to the underlying chemical structure annotated as InChI text.
- Used Resnet101d as the encoder, Transformer as the decoder, and Ranger Optimizer as the optimizer.
- Achieved a loss rate of 0.4% on the validation set, an average edit distance of 6 on the validation set, and an average edit distance of 1.88 on the test set.

**Ming Law**      January 2019 - May 2019  
*Independent Project*

- Built a legal platform based on big data and artificial intelligence technologies.
- Public opinion analysis model: CNN was used to integrate word vectors for news classification, with an accuracy of over 93%; Echart was integrated to visualize the changing law of legal hot spots.
- Intelligent text error correction model: built an N-gram model to check whether there were errors, established confusion set for sorting, and took the result of highest score after error correction; trained and evaluated the model on a large legal document database.
- Q&A service: used semantic similarity weighted scoring strategy for Q&A; trained and evaluated the model on a large legal Q&A database.

**Yao Yi Yao**      October 2018 - October 2018  
*Technical Leader, in Collaboration with Beijing University of Chinese Medicine*

- Built an application for recommending OTC proprietary Chinese medicine based on clinical symptoms for evidence type judgment.
- Integrated main clinical symptoms and evidence types of common over-the-counter Chinese medicines based on literature in the Chinese Science and Technology Journal Full Text Database.
- Implemented a recommendation algorithm based on logistic regression of the input clinical symptoms.

## AWARDS AND HONORS

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- Distinguished Employee, Zhejiang Chongxiao Zhong Han Medical Technology Co, 2020
- Outstanding Graduates of Zhejiang Province (5%) ,2020
- Gu Chaohao Scholarship (1 out of 8773, 0.01%), Wenzhou University, 2020

- University Student Science and Technology Innovation Star (1 out of 8773, 0.01%) , Wenzhou University, 2020
- Honorable Mention Award, Mathematical Contest In Modeling (MCM), 2020
- Meritorious Winner, Mathematical Contest In Modeling (MCM), 2019
- Third prize (two times), Zhejiang Province E-commerce Competition, 2018-2019
- First Prize, 12th National Student Electrical and Mathematical Modeling Competition, 2019
- Zhejiang Provincial Government Scholarship (3%), 2017-2019
- Outstanding student leaders, Wenzhou University, 2017-2019
- First Class Scholarship (5%), Wenzhou University of Technology, 2016-2019