

# Zeqing Qin

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## Education

**Huazhong University of Science and Technology, Wuhan, China** Sep 2022 – Now

**School of Cyber Science and Engineering**

MS in Cyberspace Security

**Hubei University of Technology, Wuhan, China** Sep 2018 – Jun 2022

**School of Computer Science**

BS in Software Engineering, GPA: 4.0 / 4.0, Major ranking: 1/142 (0.7%)

*Course grades:*

Data Structures: 95%, Operating System: 97%, Object-Oriented Programming: 93%, Databases: 95%

*Academic focus/background:*

Multimodal Biomedical Image Processing, Natural Language Processing(Security)

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## Awards & Honors

**Representative of Undergraduate Graduates** - Only one person among all graduates

**National Scholarship 2020**

**China Collegiate Computing Contest - First Prize**

**Mathematical Contest in Modeling(MCM) - Meritorious Winner, Team leader**

**National Undergraduate Mathematical Contest in Modeling - Second Prize, Team leader**

**China Undergraduate Computer Design Contest - Third Prize, Tem leader**

**National Professional Software Engineering “Lan Qiao Cup” Design Contest - Third Prize**

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## Research Experience

**Image Registration Method Based on Evolutionary Computation** Aug 2020 – Mar 2022

*Supported by the National Natural Science Foundation of China (Grant No.61772180)*

*Person in charge (Team leader and the only undergraduate student in the group)*

- Optimized the process of medical image registration with Evolutionary Computation.
- Improved genetic algorithm by simulating the breeding process of Chinese three-line hybrid rice.
- Achieved faster convergence speed and greater robustness. Published a paper at IEEE SMC2021.

**Extracting Concept Prerequisite from Network Resources** Jul 2020 – June 2022

*Supported by the National Natural Science Foundation of China (Grant No. 61977021)*

*Assistant Research (Assisted in the design and implementation of experiments)*

- Innovatively explored from the two dimensions of Wikipedia and the course introduction.
  - Dug out the primary dependencies between learning objects more accurately. Published a paper at SEKE2021.
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## Project Experience

### *Alibaba Cloud Security WEBSHELL Text Detection*

Sep 2022 – Now

*Alibaba Group, Wuhan, China*

*Algorithm Analyst*

- Deployed webshell text (malicious code) detection on the Alibaba Cloud platform.
- Based on BERT, we conducted large-scale automated text detection for massive data.
- Modified the algorithm through various methods, resulting in a final detection rate above 97%.
- Working toward a paper.

### *Community resource integration application during the COVID-19*

Jan 2020 – Jun 2022

*Institute of Software Hubei University, Wuhan, China*

*Systems architect*

- Aimed at difficulties in community management.
- Provided a platform for community residents to assist each other.

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## Publications

[1] **Zeqing Qin**, Zhiwei Ye\*, et al. A Multimodal Biomedical Image Registration Method Based on an Improved Genetic Algorithm Inspired by Hybrid Breeding[C]//2021 International Conference on Systems, Man, and Cybernetics, IEEE SMC2021. (CCF: C, QUALIS: B2)

- material accessible at <https://ieeexplore.ieee.org/document/9658798>

[2] Zesong Wang, Kui Xiao\*, **Zeqing Qin**, et al. Extracting Prerequisites between Concepts from Online Course Introduction[C]//The 33rd International Conference on Software Engineering & Knowledge Engineering, SEKE2021. (acceptance rate: 23.5%, CCF: C, CORE: B, QUALIS: B1)

- material accessible at <https://ksiresearch.org/seke/seke21paper/paper172.pdf>

[3] Software Copyright Application for "Information Community Mutual Aid App"

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## Extracurricular Activities

### *Student Union of Hubei University of Technology, Wuhan, China*

Oct 2018 – Jun 2022

*Student chairperson of the radio station*

- Led a working group of six departments to organize day-to-day affairs.
- Undertook tasks including news broadcasting and event commentary.

### *Chinese Youth League's live broadcast event, Wuhan, China*

Jun 2020 – Aug 2020

- Help rural areas sell local specialties online.

### *Peer Mentor of Hubei University of Technology, Wuhan, China*

Jan 2020 – Jun 2022

- Teaching Assistant (TA).

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## Additional Info and Awards

- WARDS First-class Academic Scholarship × 4, 2018-2022
- Language: Mandarin, English(TOEFL:101 R29 L25 S23 W24)