

# Zesong Wang

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## Education

**Huazhong University of Science and Technology, Wuhan, China**

2022 Sep – Now

MS in Computer Science

**Hubei University, Wuhan, China**

2018 Sep – 2022 Jun

BS in Computer Science, **GPA 4.0 / 4.0**, Ranked **1st** out of 71 in my major.

*Related course and grades ( the full mark is 100 ):*

Advanced math (95), Data structures (95), Algorithm design and analysis (91), Computer Architecture (94)

Operating systems (93), Computer network (90), Advanced language programming (96)

*Professional focus/background:*

Knowledge Engineering, Software Development, Medical Image Processing

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## Honors and Awards

- **The National Scholarship**
  - Awarded as “**Top 10 Outstanding Student** at Hubei University” upon graduation
  - Mathematical Contest in Modeling (MCM)      *Team leader*      Meritorious Winner(Top 8%)
  - China Collegiate Computing Contest      *Team leader*      First Prize
  - Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)      First Prize
  - National Professional Algorithm Design Contest "Lan Qiao Cup"      Second Prize
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## Selected Publications

1. **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. 2021: 375-380. SEKE (Acceptance rate: 23.5%, CORE: B, QUALIS: B1, CCF: C)  
<https://ksiresearch.org/seke/seke21paper/paper172.pdf>
2. Kui Xiao, Youheng Bai, and **Zesong Wang**\* (Corresponding author). "Extracting Prerequisite Relations among Concepts From the Course Descriptions (SEKEEO-RN)." International Journal of Software Engineering and Knowledge Engineering 32.04 (2022): 503-523. IJSEKE (Impact Factor : 1.47)  
<https://www.worldscientific.com/doi/abs/10.1142/S0218194022400034?journalCode=ijseke>
3. Cheng Hu, Kui Xiao\*, **Zesong Wang**, et al. Extracting prerequisite relations among wikipedia concepts using the clickstream data[C]//International Conference on Knowledge Science, Engineering and Management. Springer, Cham, 2021: 13-26. KSEM (CORE: B, QUALIS: B2, CCF: C)  
[https://link.springer.com/chapter/10.1007/978-3-030-82136-4\\_2](https://link.springer.com/chapter/10.1007/978-3-030-82136-4_2)
4. Zeqing Qin, Zhiwei Ye\*, **Zesong Wang**, et al. A Multimodal Biomedical Image Registration Method Based on an Improved Genetic Algorithm Inspired by Hybrid Breeding[C]//2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC). IEEE, 2021: 1272-1279. SMC (QUALIS: B2, CCF: C)  
<https://ieeexplore.ieee.org/abstract/document/9658798/>

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## Professional Experiences

1) *Extracting Prerequisite between Concepts Using Network Education Resources* 2020 July – 2022 Jun

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

*Person in charge ( The only undergraduate student in the research group)*

- Completed code reproduction of related research; Designed a novel concept-prerequisite extracting method using Wikipedia and course introduction.
- The accuracy of this model outperforms existing methods. Two **papers were published** in well-known journals in the field, respectively as the first author and the corresponding author.

2) *Community resource integration application during the COVID-19*

2020 Jan – 2021 April

*Software Innovation Research Center of Hubei University, Wuhan, China*

*Systems architect & Front-end developer*

- Aimed at difficulties in community management during COVID-19.
- Provided a developed an application that can be embedded in WeChat for community residents to assist each other.
- The project **won the first prize** in the China Collegiate Computing Contest due to its high economic value and practicality and was **approved for a software copyright**.

3) *Image Registration Method Based on Evolutionary Computation*

2020 Aug – 2022 Jan

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

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

- Inspired by Chinese hybrid rice, proposed a new evolutionary algorithm and applied it to image registration.
- Achieved faster convergence speed and greater robustness and published a paper as the second student author.

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## Extracurricular Activities

- Selected as a member of Hubei University's Chu Cai College (Innovative Talent Experimental College, promoting interdisciplinary development, **only eighty students** from the entire school were selected)
- As a volunteer, regularly participate in community clean-up efforts and utilize my professional skills to develop applications, greatly benefiting community residents.
- Served as a student union's president for a two-year term.