

# Weiqiang Jin (金伟强)

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## Education Background

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Sep 2022 - Present

Xi'an Jiaotong University

PHD student in School of Information and Communications Engineering, Xi'an Jiaotong University.

Sep 2019 - Mar 2021

Shanghai University

Master degree graduated from School of Computer Engineering and Science.

Participated Projects:

- Knowledge Mining and Visualization Application for Small and Medium Enterprises in China UnionPay;
- Automatic Discovery of Business Events and Operational Risks for Small and Micro Businesses in Ant Financial;
- Knowledge Mining on the Upstream and Downstream Supply Chain for Raycus Laser Equipment Industry Company.

## Internship experience

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Jan 2021 - Jun 2021

eBay for foreign trade Corporation, Shanghai

Front-end Software Engineer

Front-end interface development, maintenance and optimization of IaSS infrastructure, and back-end Python application development.

May 2022 - Sep 2022

Shanghai Youhao Network Technology Co., Ltd.

Unity3D and Python Software Development Engineer

Participate in frontend scene development for e-commerce platforms, as well as lead the backend application and user barrage management and monitoring

## Skills and Hobbies

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Rich project experience, proficient in programming, passionate about scientific research, enthusiastic about fitness, interested in photography, and love traveling.

## Honors & Awards

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CET Level 4 and CET Level 6 (College English Test);

2nd Prize in Internet+ Innovation Competition;

2nd Prize in the 17-th "HuaWei Cup" China Graduate Mathematical Modeling Competition;

First-class academic scholarship twice and second-class academic scholarship once at Anhui University of Technology;

First-class academic scholarship once and second-class academic scholarship once at Shanghai University.

## Research achievements

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Published SCI Journal Papers:

Back to common sense: Oxford dictionary descriptive knowledge augmentation for aspect-based sentiment analysis (SCI Index, Essential Science Indicators, Information Processing & Management, 2023, Volume 60, Issue 3, 103260, IF=8.6)  
<https://doi.org/10.1016/j.ipm.2022.103260>

WordTransABSA: A BERT-based Aspect-based Sentiment Analysis Approach by Utilizing "Masked Language Model" to Predict Affective Tokens

(SCI Index, Expert Systems with Applications, 2024, Volume 238, Part F, 122289. IF=8.5)

<https://doi.org/10.1016/j.eswa.2023.122289>

Improving embedded knowledge graph multi-hop question answering by introducing relational chain reasoning

(SCI Index, Data Mining and Knowledge Discovery, 2023, vol 37, pages 255–288 (2023), IF =4.8)

<https://doi.org/10.1007/s10618-022-00891-8>

Fintech Key-Phrase: a New Chinese Financial High-Tech Dataset Accelerating Expression-Level Information Retrieval

(SCI Index, ACM Transactions on Asian and Low-Resource Language Information Processing IF=2)

<https://doi.org/10.1145/3627989>

Prompt learning for metonymy resolution: Enhancing performance with internal prior knowledge of pre-trained language models (SCI Index, KNOWLEDGE-BASED SYSTEMS, 2023, Volume 279, 110928, IF=8.8)

<https://doi.org/10.1016/j.knosys.2023.110928>

A semi-independent policies training method with shared representation for heterogeneous multi-agents reinforcement learning

(SCI Index, Frontiers in Neuroscience 2023, Volume 17 - 2023, IF=4.3)

<https://doi.org/10.3389/fnins.2023.1201370>

Relation-aware graph structure embedding with co-contrastive learning for drug–drug interaction prediction (SCI JCR Q1, Neurocomputing) <https://doi.org/10.1016/j.neucom.2023.127203>

A Novel Cascade Model for End-to-End Aspect-Based Social Comment Sentiment Analysis (SCI Index, Electronics)

<https://doi.org/10.3390/electronics11121810>

ChatAgri: Exploring potentials of ChatGPT on cross-linguistic agricultural text classification

(SCI Index, Neurocomputing, 2023, Volume 557, 2023, 126708, IF=6)

<https://doi.org/10.1016/j.neucom.2023.126708>

#### **Published International Conference Papers:**

Using Masked Language Modeling to Enhance BERT-Based Aspect-Based Sentiment Analysis for Affective Token Prediction

(International Conference on Artificial Neural Networks 2023)

[https://doi.org/10.1007/978-3-031-44204-9\\_44](https://doi.org/10.1007/978-3-031-44204-9_44)

Exploring the Capability of ChatGPT for Cross-Linguistic Agricultural Document Classification: Investigation and Evaluation (The 2023 International Conference on Neural Information Processing)

[https://doi.org/10.1007/978-981-99-8145-8\\_18](https://doi.org/10.1007/978-981-99-8145-8_18)

Fintech Key-Phrase: a New Chinese Financial High-Tech Dataset Accelerating Expression-Level Information Retrieval

(International Conference on Database Systems for Advanced Applications 2023)

[https://doi.org/10.1007/978-3-031-30675-4\\_31](https://doi.org/10.1007/978-3-031-30675-4_31)

CvT-ASSD: Convolutional vision-Transformer Based Attentive Single Shot MultiBox Detector

(International Conference, IEEE-ICTAI)

<https://doi.org/10.1109/ictai52525.2021.00117>