

# WEIQIANG JIN

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## 🎓 EDUCATION

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**Xi'an Jiaotong University**, Xi'an, China 2022 – Present

*Ph.D. Candidate* in Information and Communication Engineering, expected July 2026

*Specialization:* Intelligent Perception, Decision Control / Big Data, Large Model Research & Applications

**Shanghai University**, Shanghai, China 2019 – 2021

*Master* in Computer Engineering & Science *Specialization:* Computer Vision (Object Detection), Fake News Detection, Knowledge Graph-based Q&A Systems, Fine-Grained Sentiment Analysis and other NLP tasks.

## 👤 INTERNSHIP EXPERIENCE

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**eBay Global Trade Platform** Shanghai, China Jan. 2021 – Jun. 2021

*Full-Stack Software Engineer* eBay IaSS Team: Developed and optimized infrastructure interfaces for the IaSS team at eBay.

**Shanghai Youhao Network Technology Co., Ltd.** Shanghai, China May. 2022 – Aug. 2022

**Unity3D & Python Developer:** Worked on e-commerce platform UI and backend monitoring systems.

## 🌐 VISITING RESEARCH ASSISTANT

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**1. Electrical and Electronic Engineering (EEE)**, The University of Hong Kong Feb. 2025 – Sep. 2025

*Supervised by Prof. Hongyang Du* [Produced four peer-reviewed papers in 4–5 months as an RA.]

- Published review paper “A Review of AI-Driven Automation Technologies: Latest Taxonomies, Existing Challenges, and Future Prospects” in *CMC-Computers, Materials & Continua* (DOI: 10.32604/cmc.2025.067857)
- Submitted review paper “A Review on Multi-Agent Cooperative Decision-Making Applications: Scenarios, Approaches, Challenges and Perspectives” to *Journal of Industrial Information Integration*
- Submitted research paper “Counterfactual Group Relative Policy Advantage Empowered Dynamic Curriculum Learning for Multi-Agent Reinforcement Learning” to *Transactions on Neural Networks and Learning Systems*
- Submitted research paper “EVA-MARL: Evolutionary Variational Autoencoder-enhanced Metaformer Actor With Dual-Expert Policy Coordination For Efficient Offline MARL” to *Transactions on NNLS*

**2. Department of Computer Science & Engineering (CSE)**, The Chinese University of Hong Kong (CUHK) Sep. 2025 – Feb. 2026 (Until Now)

*Supervised by Prof. Irwin King, Fellow of ACM, Fellow of IEEE, Fellow of INNS, Fellow of AAIA, Fellow of HKIE* [cse.cuhk/irwin.king]

- Acting as an Honorary RA in MISC lab: <https://misc-lab.cse.cuhk.edu.hk/>.
- Research Interest focuses on LLM Reasoning / Prompt Compression / Agentic AI.

## 🏆 HONORS & AWARDS

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### Scholarships.

- **2024** National Scholarship for PhD Candidates (Ranked 1st/247 in School of ICE, XJTU)
- **2024** Electronic Sunlord Scholarship, Department of EI, XJTU
- **2025** Huang Xichun Scholarship for PhD, School of ICE, XJTU
- **2023** First-Class Graduate Scholarship (1 time); Second-Class Graduate Scholarship (1 time), SHU
- **Undergraduate** First-Class Scholarship (2 times); Second-Class Scholarship (2 times), AHUT

### Research Awards.

- **2023** Best Paper Award, *Information Processing & Management* (SCI JCR Q1) (1/302)
- **2024** Best Paper Award, Asian Conference on Artificial Intelligence and Technology (1/488)
- Two SCI papers selected as ESI Highly Cited Papers; One SCI paper selected as WOS Hot Paper
- **2023** Outstanding PhD Student Award; **2024** Outstanding PhD Student Cadre Award

## RESEARCH ACHIEVEMENTS

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### **ii** Published Journals and Conferences.

- Back to common sense: Oxford dictionary descriptive knowledge augmentation for aspect-based sentiment analysis **Information Processing & Management JCR Q1 TOP CCF-B 2023 Best Paper ESI**
- Improving embedded knowledge graph multi-hop question answering by introducing relational chain reasoning **Data Mining and Knowledge Discovery JCR Q1 CCF-B**
- Representation-driven sampling and adaptive policy resetting for improving multi-Agent reinforcement learning **Neural Networks JCR Q1 TOP IF:10.6**
- WordTransABSA: A BERT-based Aspect-based Sentiment Analysis Approach by Utilizing “Masked Language Model” to Predict Affective Tokens **Expert Systems with Applications JCR Q1 TOP**
- ChatAgri: Exploring potentials of ChatGPT on cross-linguistic agricultural text classification **Neurocomputing Q1 TOP**
- Veracity-Oriented Context-Aware Large Language Models-based Prompting Optimization for Fake News Detection **International Journal of Intelligent Systems JCR Q1 TOP IF:5.0**
- Can Rumor Detection Enhance Fact Verification? Unraveling Cross-Task Synergies Between Rumor Detection and Fact Verification **IEEE Transactions on Big Data JCR Q1 IF:7.5**
- A Prompting Multi-task Learning-based Veracity Dissemination Consistency Reasoning Augmentation for Few-Shot Fake News Detection Engineering Applications of Artificial Intelligence **TOP JCR Q1 TOP IF:7.5**
- Courtroom-FND: A Multi-Role Fake News Detection Method Based on Argument Switching-based Courtroom Debate **Journal of King Saud University Computer and Information Sciences JCR Q1 IF: 5.2**
- Enhanced UAV Pursuit-Evasion Using Boids Modelling: A Synergistic Integration of Bird Swarm Intelligence and DRL **CMC-Computers Materials & Continua ESI WOS Hot Paper**
- RelabelMamba: Exploring State Space Model for Learning with Noisy Labels **Applied Soft Computing JCR Q1 IF: 8.7**
- A semi-independent policies training method with shared representation for heterogeneous multi-agents reinforcement learning **Frontiers in Neuroscience JCR Q1/2 TOP**
- Self-adaptive LLM instructions optimization for aspect-based sentiment analysis by incorporating emotion-oriented in contexts **Computational Intelligence JCR Q2**
- Prompt learning for metonymy resolution: Enhancing performance with internal prior knowledge of pre-trained language models **KNOWLEDGE-BASED SYSTEMS JCR Q1 TOP**
- EECSA: Enhancing Textual Sentiment Analysis through Emotion-Enriched Contextual Integration and Self-Adaptive Prompting Optimization **ACAIT-2024 CAAI 2024 Best Paper**
- A Survey on Deep Learning for Few-Shot PolSAR Image Classification **Remote Sensing JCR Q1 IF:4.2**
- A Review of AI-Driven Automation Technologies: Latest Taxonomies, Existing Challenges, and Future Prospects **CMC-Computers, Materials & Continua JCR Q3 IF:2.0**
- DisCo-FEND: Social Context Veracity Dissemination Consistency-Guided Case Reasoning for FEND **WISE-2024 CCF-C**
- A veracity dissemination consistency-based few-shot fake news detection framework by synergizing adversarial and contrastive self-supervised learning **SR JCR Q1**
- Fintech Key-Phrase: a New Chinese Financial High-Tech Dataset Accelerating Expression-Level Information Retrieval International Conference on Database Systems for Advanced Applications 2023 (**DASFAA2023**) **CCF-B**
- CvT-ASSD: Convolutional vision-Transformer Based Attentive Single Shot MultiBox Detector **IEEE-ICTAI CCF-C**
- Using Masked Language Modeling to Enhance BERT-Based ABSA for Affective Token Prediction **ICANN 2023 CCF-C**
- Fintech Key-Phrase: a New Chinese Financial High-Tech Dataset Accelerating Expression-Level Information Retrieval **ACM Transactions on Asian and Low-Resource Language Information Processing**
- Exploring the Capability of ChatGPT for Cross-Linguistic Agricultural Document Classification: Investigation and Evaluation **ICONIP 2023 CCF-C**
- Hyperspectral Reconstruction Method Based on Global Gradient Information and Local Low-Rank Priors **Remote Sensing**
- Hierarchical Multi-Relational Graph Representation Learning for Large-Scale Prediction of DDI **IEEE TBD JCR Q1**
- Relation-aware graph structure embedding with co-contrastive learning for DDI **Neurocomputing JCR Q1 IF:5.5**
- A Novel Cascade Model for End-to-End Aspect-Based Social Comment Sentiment Analysis **Electronics**

### **ii** Journals and Conferences under Peer-Review.

- A Comprehensive Survey on Multi-Agent Cooperative Decision-Making: Scenarios, Approaches, Challenges and Perspectives **Journal of Industrial Information Integration JCR Q1 TOP IF:11.6**
- EVA-MARL: Evolutionary Variational Autoencoder-enhanced Metaformer Actor With Dual-Expert Policy Coordination For Efficient Offline-to-Online MARL **IEEE Transactions on NNLS JCR Q1 TOP IF:10.2**
- MADVAE: Pre-Trained Multi-Agent Decision Transformer by Adopting Variational Autoencoder and Dual-Expert Policy Synchronization **IEEE ICASSP 2026**
- AC2T-MARL: An Adaptive Intrinsic Curiosity-Driven Causal Convolutional Transformer for Online-Finetuned MARL **IEEE ICRA 2026**
- Curiosity-driven Decision ConvFormer with Adaptive Training for Offline-to-Online Multi-Agent Reinforcement Learning **Neurocomputing JCR Q1 IF: 6.0**
- GrCA-Decor: Group-Relative Counterfactual Advantage Decorator for Robust Credit Assignment in Multi-Agent Reinforcement Learning **IEEE ICASSP 2026**

- Counterfactual Group Relative Policy Advantage Empowered Dynamic Curriculum Learning for Multi-Agent Reinforcement Learning **IEEE Transactions on NNS JCR Q1 TOP IF:10.2**
- Complex-Valued Source-Free Domain Adaptation for PolSAR Image Classification **IEEE Transactions on Geoscience & Remote Sensing JCR Q1 TOP IF:7.5**
- NLCS: Entropy-Based Framework for Noisy Label Correction and Selection **CVIU JCR Q1 IF:4.3**
- RectMamba: Mamba with Entropy-Divergence Framework for Noisy Label Rectification **Neurocomputing JCR Q1 IF: 5.5**
- Active Diffusion Induces Generalized Graph Neural Networks **IEEE Transactions on PAMI JCR Q1 TOP IF:20+**

## **i** MORE INFORMATION ABOUT ME

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- ORCID: <https://orcid.org/0000-0002-6656-6061>
- GitHub: <https://github.com/albert-jin>
- Google Scholar [**501** citations]: <https://scholar.google.com/citations?user=iDZcqAIAAAAJ>
- Serving as the Academic Editor for Plos One since 2024. Editorial Board | PLOS One

## **i** INVENTION PATENTS. [UNDER SUBSTANTIVE EXAMINATION]

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1. 一种基于多维度焦点问题生成的谣言检测数据增强方法及装置. (第一作者, First. Au.)
2. 一种借助谣言检测任务数据增强的少样本监督中文事实核查方法. (第一作者, First. Au.)
3. 一种大语言模型驱动知识图谱多跳推理的军事问答方法与系统. (第一作者, First. Au.)
4. 一种基于大语言模型的具身多智能体协同博弈决策方法. (第一作者, First. Au.)
5. 一种大语言模型驱动的具身智能体零样本目标导航方法. (第一作者, First. Au.)
6. 一种基于焦点注意网络增强的海陆空微小目标检测方法. (第一作者, First. Au.)
7. 一种基于增强提示学习与图扩散策略的虚假新闻检测方法 (第一作者, First. Au.)
8. 一种基于自监督学习与传播一致性的虚假新闻检测方法 (第一作者, First. Au.)
9. 基于人类模糊直觉驱动的关键目标定位与分割方法与系统. (除老师外第一, First. Au. w/o a teacher)

## **i** PUBLISHED BOOK

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Chapter “Cross-Domain Knowledge Transfer in Large Models: Transforming Knowledge Management Dynamics” on Book “Knowledge Management Dynamics in a Transformative Environments”: <https://publish.intechopen.com/>