

## Qiang Sheng 盛强

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EDUCATION      **Institute of Computing Technology, Chinese Academy of Sciences**      Sept. 2018 - Present

- Ph.D Candidate in Computer Science
- Affiliated at the Digital Synthesis and Forensics Lab
- Area of Study: Fake News Detection, Fact-Checking, Social Media Mining
- Advisor: Professor Juan Cao
- Graduation year (expected): 2023

**Beijing University of Posts and Telecommunications**      Sept. 2014 - Jun. 2018

- B.Eng in Communication Engineering
- 10/574, Top 1.74%

### PUBLICATIONS

1. **Zoom Out and Observe: News Environment Perception for Fake News Detection** [ACL 2022, CCF A]  
[Qiang Sheng](#), Juan Cao, Xueyao Zhang, Rundong Li, Danding Wang and Yongchun Zhu  
Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics .
2. **Article Reranking by Memory-enhanced Key Sentence Matching for Detecting Previously Fact-checked Claims** [ACL-IJCNLP 2021, CCF A]  
[Qiang Sheng](#), Juan Cao, Xueyao Zhang, Xirong Li, and Lei Zhong  
Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing.
3. **Integrating Pattern- and Fact-based Fake News Detection via Model Preference Learning** [CIKM 2021, CCF B]  
[Qiang Sheng](#)<sup>\*</sup>, Xueyao Zhang<sup>\*</sup>, Juan Cao, and Lei Zhong  
Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021).
4. **Characterizing Multi-domain False News and Underlying User Effects on Chinese Weibo** [IP&M 2022, CCF B]  
[Qiang Sheng](#), Juan Cao, H. Russell Bernard, Kai Shu, Jintao Li, and Huan Liu  
Information Processing and Management, 2022. (Minor Revision)
5. **Memory-Guided Multi-View Multi-Domain Fake News Detection** [TKDE 2022, CCF A]  
Yongchun Zhu, [Qiang Sheng](#), Juan Cao, Qiong Nan, Kai Shu, Jindong Wang, Minghui Wu, and Fuzhen Zhuang  
IEEE Transactions on Knowledge and Data Engineering, 2022. (Minor Revision)
6. **Generalizing to the Future: Mitigating Entity Bias in Fake News Detection** [SIGIR 2022, CCF A]  
Yongchun Zhu, [Qiang Sheng](#), Juan Cao, Shuokai Li, Danding Wang, and Fuzhen Zhuang  
Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval.

7. **DRAG: Dynamic Region-Aware GCN for Privacy-Leaking Image Detection** [AAAI 2022, CCF A]  
Guang Yang, Juan Cao, **Qiang Sheng**, Peng Qi, Xirong Li, and Jintao Li  
Proceedings of the 36th AAAI Conference on Artificial Intelligence.
8. **Mining Dual Emotion for Fake News Detection** [WWW 2021, CCF A]  
Xueyao Zhang, Juan Cao, Xirong Li, **Qiang Sheng**, Lei Zhong, and Kai Shu  
Proceedings of the 30th Web Conference.
9. **Improving Fake News Detection by Using an Entity-enhanced Framework to Fuse Diverse Multimodal Clues** [MM 2021, CCF A]  
Peng Qi, Juan Cao, Xirong Li, Huan Liu, **Qiang Sheng**, Xiaoyue Mi, Qin He, Yongbiao Lv, Chenyang Guo, and Yingchao Yu  
Proceedings of the 29th ACM International Conference on Multimedia.
10. **Semantics-Enhanced Multi-modal Fake News Detection** [J-CRAD 2021, CCF A]  
Peng Qi, Juan Cao, and **Qiang Sheng**  
Journal of Computer Research and Development, 2021.
11. **Integrating Semantic and Structural Information with Graph Convolutional Network for Controversy Detection** [ACL 2020, CCF A]  
Lei Zhong, Juan Cao, **Qiang Sheng**, Junbo Guo, and Ziang Wang  
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics.
12. **Fake News and Disinformation Detection on the Internet: Recent Advances and Future Prospects**  
Juan Cao, **Qiang Sheng**, and Peng Qi  
Communications of the China Computer Federation, March 2020.
13. **Exploring the Role of Visual Content in Fake News Detection**  
Juan Cao, Peng Qi, **Qiang Sheng**, Tianyun Yang, Junbo Guo, and Jintao Li  
Disinformation, Misinformation, and Fake News in Social Media: Emerging Research Challenges and Opportunities, Lecture Notes in Social Network (LNSN), Springer Press, 2020.

PROFESSIONAL  
EXPERIENCE

**Reviewer:**

- NAACL 2022
- ACL 2022
- AAAI 2022
- EMNLP 2021
- ACL Rolling Review (2021-2022)
- ACM CSCW 2021 (**Recognized for Excellent Reviewing**)
- Information Processing & Management
- Multimedia Systems

**Student Volunteer:**

- IEEE ICDM 2019

TEACHING  
EXPERIENCE

**081203M05008H: Multimedia Technology, UCAS**  
Teaching Assistant

Spring 2020,2021

TALKS	<b>Fake news detection: Observe not only the news but its environment</b> AI TIME Live, 2022/4/20 BUAF AI 2022, 2022/4/24
HONORS & AWARDS	<ul style="list-style-type: none"> <li>• Pacemaker to Merit Student, University of Chinese Academy of Sciences 2022</li> <li>• E Fund Scholarship, Guangdong E Fund Education Foundation &amp; UCAS Education Foundation 2021</li> <li>• Merit Student, University of Chinese Academy of Sciences 2019, 2020</li> <li>• Outstanding Graduate, Beijing Municipal Commission of Education 2018</li> <li>• National Scholarship, Ministry of Education of China 2015,2016,2017</li> </ul>
PROJECTS	<b>AIShiyao: A Rumor Tracking and Verification System</b> Aug. 2017 - Aug. 2018 Developing for data annotation, detail page data aggregation and data analysis.  <b>Revised L<sup>A</sup>T<sub>E</sub>X Template for BUPT Bachelor Thesis</b> Jun. 2018 Revised the L <sup>A</sup> T <sub>E</sub> X template to meet the latest requests. Got 345+ stars on GitHub ( <a href="https://github.com/sheng-qiang/BUPTBachelorThesis">https://github.com/sheng-qiang/BUPTBachelorThesis</a> ).