




# Xin Wang

PhD, Computer Science and Technology, Tsinghua University

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## RESEARCH INTERESTS

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Natural language processing, Data mining, AI4Society

## EDUCATION

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**Ph.D. in Computer Science and Technology, Tsinghua University**

Sep 2018 - Oct 2023

Supervised by Prof Ling Feng. Focusing on AI4Society

**B.E. in Computer Science and Technology, Northwestern Polytechnical University**

Sep 2014 - Jun 2018

Outstanding Graduates

## PAPERS

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1. Contrastive Learning of Stress-specific Word Embedding for Social Media based Stress Detection.  
Xin Wang, Huijun Zhang, Lei Cao, Ling Feng, Qi Li, Ningyun Li, Ling Feng.  
Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD2023)
2. Continuous Stress Detection Based on Social Media.  
Yang Ding, Ling Feng, Lei Cao, Yi Dai, Xin Wang, Huijun Zhang, Ningyun Li, Kaisheng Zeng.  
IEEE Journal of Biomedical and Health Informatics (JBHI 2023)
3. A meta-learning based stress category detection framework on social media.  
Xin Wang, Lei Cao, Huijun Zhang, Ling Feng, Yang Ding, Ningyun Li.  
Proceedings of the ACM Web Conference 2022 (Oral Presentation on WWW2022)
4. Fine-Grained Question-Level Deception Detection via Graph-Based Learning and Cross-Modal Fusion.  
Huijun Zhang, Yang Ding, Lei Cao, Xin Wang, Ling Feng.  
IEEE Transactions on Information Forensics and Security (TIFS2022)
5. Interactive contrastive learning for self-supervised entity alignment.  
Kaisheng Zeng, Zhenhao Dong, Lei Hou, Yixin Cao, Minghao Hu, Jifan Yu, Xin Lv, Lei Cao, Xin Wang, Haozhuang Liu, Yi Huang, Junlan Feng, Jing Wan, Juanzi Li, Ling Feng.  
Proceedings of the 31st ACM International Conference on Information & Knowledge Management (CIKM2022)
6. Learning Users Inner Thoughts and Emotion Changes for Social Media based Suicide Risk Detection.  
Lei Cao, Huijun Zhang, Xin Wang and Ling Feng.  
IEEE Transactions on Affective Computing (TAC2021)
7. Category-Aware Chronic Stress Detection on Microblogs.  
Lei Cao, Huijun Zhang, Ningyun Li, Xin Wang, Wisong Ri and Ling Feng.  
IEEE Journal of Biomedical and Health Informatics. (JBHI2021)
8. Generating Instructive Questions from Multiple Articles to Guide Reading in E-Bibliotherapy  
Yunxing Xin, Lei Cao, Xin Wang, Xiaohao He and Ling Feng.  
MDPI Sensors. (Sensors2021)

9. Leverage Social Media for Personalized Stress Detection.  
Xin Wang, Huijun Zhang, Lei Cao, Ling Feng.  
 Proceedings of the 28th ACM international conference on multimedia. (MM2020)
10. Latent suicide risk detection on microblog via suicide-oriented word embeddings and layered attention.  
 Lei Cao, Huijun Zhang, Ling Feng, Zihan Wei, Xin Wang, Ningyun Li, Xiaohao He.  
 Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (Oral on EMNLP2019)

## PATENT

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- A semantic classification method and device.  
 Registration Number: CN114722833A | Apr 19 2022 | China
- A method and device for social media based stress category detection.  
 Registration Number: CN114842246A | Apr 19 2022 | China
- A word embedding method and device for stress detection.  
 Registration Number: CN114707490A | Mar 14 2022 | China
- Sensing methods and devices for psychological stress problems.  
 Registration Number: CN109801706B | Nov 10 2020 | China

## ACADEMIC SERVICES

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- Regular Reviewer or Program Committee Member: NIPS23; ICLR24; WWW24; ACL21,23; EMNLP21,22,23; NAACL21; EACL23; AACL20,22,23; ACL Rolling Review
- External Reviewer: WWW22

## TEACHING

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- Teaching Assistant for Python at Tsinghua University Jan 2023 - Jun 2023
- Teaching Assistant for Distributed database system at Tsinghua University Sep 2022 - Dec 2022

## AWARDS

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### Scholarships

- Tsinghua First Class Scholarship Dec 2022
- LONGFOR Corporation Scholarship Sep 2022
- Friends of Tsinghua-Ganzhou Talent Scholarship Dec 2021
- Ministry of Industry and Information Technology Innovation Scholarship Jun 2018
- Three-times of NWPU First Class Scholarship 2015-2018

### Competitions

- Silver Medal at the International Exhibition of Inventions in Geneva Apr 2019
- 1st place in SimuroSot middle league at FIRA Robot World Cup Dec 2016
- First Prize in FIRA Simulation of China Robot Competition Aug 2016
- 1st place in Simulation Football Robot of China Robot Championship Jul 2016

## RESEARCH PROJECTS

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- Key technologies of electronic reading therapy platform to relieve psychological stress among teenagers.  
 Project Manager (PI: Prof. Ling Feng) | The National Natural Science Foundation of China | 2019-2022
- Happysport: a psychological stress detection software for teenagers  
 Project Developer (PI: Prof. Ling Feng) | Centre for Computational Mental Healthcare of Tsinghua | 2019-2022