Xiaozhi Wang

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Education

2020 – 2025 **PhD Student. Computer Science and Technology, Tsinghua University.**
Advisor: Prof. Juanzi Li.

2016 – 2020 **B.Eng. Computer Science and Technology, Tsinghua University.**

Employment

2024.3 – now **Visiting Scholar** University of Illinois Urbana-Champaign. Advised by Prof. Heng Ji.

2017 – 2020 **Research Assistant** Tsinghua NLP. Advised by Prof. Zhiyuan Liu.

2019.7 – 2019.9 **Visiting Student** Montreal Institute for Learning Algorithms. Advised by Prof. Jian Tang.

Research

Research Interests

(1) **Understanding language models**: How to understand the working mechanisms of language models with empirical analyses and how can the findings help us improve/steer language models; (2) **Information extraction**: How to enable models to understand complex structured knowledge (particularly, events) in text.

Publications: Understanding Language Models

1. Yu, J., **Wang**, **X.**, Tu, S., Cao, S., Zhang-Li, D., Lv, X., …, Li, H. et al. (2023). KoLA: Carefully benchmarking world knowledge of large language models. In *Proceedings of ICLR*.
2. Peng, H., **Wang**, **X.**, Hu, S., Jin, H., Hou, L., Li, J., … Liu, Q. (2022). COPEN: Probing conceptual knowledge in pre-trained language models. In *Proceedings of EMNLP*.
3. Su, Y., **Wang**, **X.**, Qin, Y., Chan, C.-M., Lin, Y., Wang, H., …, Li, J. et al. (2022). On transferability of prompt tuning for natural language processing. In *Proceedings of NAACL*.
4. **Wang**, **X.**, Wen, K., Zhang, Z., Hou, L., Liu, Z. & Li, J. (2022). Finding skill neurons in pre-trained transformer-based language models. In *Proceedings of EMNLP*.
5. Qin, Y., **Wang**, **X.**, Su, Y., Lin, Y., Ding, N., Yi, J., …, Hou, L. et al. (2021). Exploring universal intrinsic task subspace via prompt tuning. In *Arxiv e-prints*.

Publications: Information Extraction

1. Peng, H., **Wang**, **X.**, Yao, F., Zeng, K., Hou, L., Li, J., … Shen, W. (2023). The devil is in the details: On the pitfalls of event extraction evaluation. *Findings of ACL*.
2. **Wang**, **X.**, Chen, Y., Ding, N., Peng, H., Wang, Z., Lin, Y., …, Liu, Z. et al. (2022). MAVEN-ERE: A unified large-scale dataset for event coreference, temporal, causal, and subevent relation extraction. *Proceedings of EMNLP*.
3. **Wang**, **X.**, Gao, T., Zhu, Z., Zhang, Z., Liu, Z., Li, J. & Tang, J. (2021). KEPLER: A unified model for knowledge embedding and pre-trained language representation. *Transactions of the Association for Computational Linguistics*.

4. Wang, Z., **Wang, X.**, Han, X., Lin, Y., Hou, L., Liu, Z., … Zhou, J. (2021). CLEVE: Contrastive Pre-training for Event Extraction. *Proceedings of ACL*.
5. **Wang, X.**, Jia, S., Han, X., Liu, Z., Li, J., Li, P. & Zhou, J. (2020). Neural Gibbs Sampling for Joint Event Argument Extraction. *Proceedings of AACL*.
6. **Wang, X.**, Wang, Z., Han, X., Jiang, W., Han, R., Liu, Z., … Zhou, J. (2020). MAVEN: A Massive General Domain Event Detection Dataset. *Proceedings of EMNLP*.
7. **Wang, X.**, Han, X., Liu, Z., Sun, M. & Li, P. (2019). Adversarial training for weakly supervised event detection. *Proceedings of NAACL*, 998–1008.
8. **Wang, X.**, Wang, Z., Han, X., Liu, Z., Li, J., Li, P., … Ren, X. (2019). HMEAE: Hierarchical modular event argument extraction. *Proceedings of EMNLP*.
9. **Wang, X.**, Han, X., Lin, Y., Liu, Z. & Sun, M. (2018). Adversarial multi-lingual neural relation extraction. *Proceedings of COLING*.

Only the papers I lead are listed here. For a full publication list, please check `https://scholar.google.com/citations?user=DjpXXZkAAAAJ`

Professional Services

Area Chair: ACL Rolling Review/ACL 2024

Program Committee Member/Reviewer: AAAI/IJCAI/COLING 2020, AAAI/ACL/EMNLP 2021, AAAI/COLING/SIGIR/CCKS/EMNLP 2022, AAAI/ACL/EMNLP/NeurIPS 2023, ACL Rolling Review.

Honors

2020
- **Excellent Graduate, Tsinghua University**
- **Outstanding Graduate, Dept. CST, Tsinghua University**
- **Outstanding Undergraduate Dissertation, Tsinghua University**

2019
- **Zhong Shimo Scholarship, Dept. CST, Tsinghua University**. Highest award (3) of undergraduates in Dept. CST.
- **Cai Xiong Scholarship, Tsinghua University**. Awarded to the top 10 undergraduates with excellent scientific achievements at Tsinghua University.
- **SenseTime Scholarship**. SenseTime Group Ltd. awards 29 outstanding AI undergraduates nationwide.
- **Tencent Rhino-Bird Elite Training Program**. Tencent selects 56 talents (including graduates) nationwide through this program to enhance their comprehensive skills.
- **Fellowship of the Tsinghua University Initiative Scientific Research Program**. Awarded to the top 10 undergraduates with excellent research potential and promising research at Tsinghua University. Fund 32,000 USD in total.
- **The CCF Outstanding Undergraduate Award**. The China Computer Federation (CCF) awards 73 outstanding undergraduate students nationwide.

2018
- **Fellowship of the Spark Talents Program**. Awarded to the top 50 Tsinghua undergraduates who are dedicated to scientific and technological innovations.

2017
- **Golden Award**. International Collegiate Programming Contest (ACM-ICPC) Asia Qingdao Regional.

Honors (continued)

- **Golden Award**. CCF Collegiate Computer Systems and Programming Contest (CCSP).

2016 - **Golden Award**. China Collegiate Programming Contest (CCPC) Changchun Regional.

2015 - **3rd Prize**. National Olympiad in Informatics.