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CONTACT INFORMATION	Department of Computer Science University of Virginia Room 224, Rice Hall Charlottesville, VA 22903 Email : tqf5qb@virginia.edu Homepage: weizhepei.com	
RESEARCH INTERESTS	Large Language Model (LLM), Textual Representation Learning, Trustworthy Language Generation and Reasoning	
EDUCATION	<b>University of Virginia</b> <ul style="list-style-type: none"> <li>• <i>Ph.D., Department of Computer Science</i></li> <li>• Advisor: Prof. Yu Meng</li> </ul> <b>Jilin University</b> <ul style="list-style-type: none"> <li>• <i>M.S., School of Artificial Intelligence</i></li> <li>• <i>B.S., College of Computer Science and Technology</i></li> <li>• Advisor: Prof. Yi Chang</li> </ul>	Charlottesville, U.S. <i>Aug 2022 - present</i>  Changchun, China <i>Sep 2019 - Jun 2022</i> <i>Sep 2015 - Jul 2019</i>
RESEARCH EXPERIENCE	<b>University of Virginia</b> <i>Research Assistant</i> <ul style="list-style-type: none"> <li>• <b>Advisor:</b> Prof. Yu Meng</li> <li>• <b>Retrieval-augmented Generation:</b> Research on retrieval-augmented large language model (LLM) for knowledge-intensive tasks such as question answering.</li> </ul> <b>University of Virginia</b> <i>Research Assistant · Human-Centric Data Mining Lab</i> <ul style="list-style-type: none"> <li>• <b>Advisor:</b> Prof. Hongning Wang</li> <li>• <b>Incentivized Federated Bandits:</b> Research on incentivized communication problem for federated bandits with near-optimal theoretical guarantees.</li> </ul> <b>Jilin University</b> <i>Research Assistant</i> <ul style="list-style-type: none"> <li>• <b>Advisor:</b> Prof. Yi Chang</li> <li>• <b>Language Understanding and Reasoning:</b> Research on text-based language understanding and reasoning tasks with knowledge graph and pre-trained language models such as BERT.</li> </ul> <b>Huawei Research</b> <i>Research Intern · Poisson Lab (2012 Lab)</i> <ul style="list-style-type: none"> <li>• <b>Mentor:</b> Dr. Yantao Jia</li> <li>• <b>Knowledge Graph:</b> Research on knowledge graph construction from unstructured and semi-structured data, focusing on entity and relation extraction.</li> </ul> <b>Jilin University</b> <i>Research Assistant · Machine Learning Lab</i> <ul style="list-style-type: none"> <li>• <b>Advisor:</b> Prof. You Zhou</li> <li>• <b>Autonomous Agent:</b> Research on improved deep Q-learning (reinforcement leaning) for autonomous decision-making in the simulated interactive environment.</li> </ul>	Charlottesville, U.S. <i>Aug 2023 - present</i>  Charlottesville, U.S. <i>Aug 2022 - Aug 2023</i>  Changchun, China <i>Sep 2019 - Jun 2022</i>  Beijing, China <i>Jul 2018 - Aug 2019</i>  Changchun, China <i>May 2017 - Jun 2018</i>

SELECTED  
PUBLICATIONS

**Google Scholar Citations: 500+, Github Stars: 800+ (as of Apr. 2024)**

1. **Zhepei Wei**, Chuanhao Li, Tianze Ren, Haifeng Xu, Hongning Wang. *Incentivized Truthful Communication for Federated Bandits*. ICLR 2024.
2. **Zhepei Wei**, Chuanhao Li, Haifeng Xu, Hongning Wang. *Incentivized Communication for Federated Bandits*. NeurIPS 2023.
3. Erxin Yu, Lan Du, Yuan Jin, **Zhepei Wei**, Yi Chang. *Learning Semantic Textual Similarity via Topic-informed Discrete Latent Variables*. EMNLP 2022.
4. **Zhepei Wei**, Yue Wang, Jinnan Li, Zhining Liu, Erxin Yu, Yuan Tian, Xin Wang, Yi Chang. *Towards Unified Representations of Knowledge Graph and Expert Rules for Machine Learning and Reasoning*. ACL-IJCNLP 2022.
5. Runliang Niu, **Zhepei Wei**, Yan Wang, Qi Wang. *AttExplainer: Explain Transformer via Attention by Reinforcement Learning*. IJCAI-ECAI 2022.
6. **Zhepei Wei**, Jianlin Su, Yue Wang, Yuan Tian, Yi Chang. *A Novel Cascade Binary Tagging Framework for Relational Triple Extraction*. ACL 2020.
7. **Zhepei Wei**, Di Wang, Ming Zhang, Ah-Hwee Tan, Chunyan Miao, You Zhou. *Autonomous Agents in Snake Game via Deep Reinforcement Learning*. ICA 2018.

AWARDS &  
HONORS

- Outstanding Graduate Research Award (2024) University of Virginia
- NeurIPS Scholar Award (2023) NeurIPS Foundation
- Computer Science Scholar Fellowship (2022) University of Virginia
- National Scholarship (2018, 2020) Ministry of Education of China
- First-Class Scholarship (2017, 2020) Jilin University
- Outstanding Graduate Award (2020) Jilin University
- Honor Graduation Award (2019) Jilin University
- Outstanding Undergraduate Award (2016, 2017, 2018) Jilin University
- Undergraduate Leadership Award (2016, 2017) Jilin University
- National Endeavor Scholarship (2016) Ministry of Education of China

ACADEMIC  
SERVICES

**Conference Paper Reviewer**

- International Conference on Machine Learning (ICML), 2024
- The Web Conference (WWW), 2023
- Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021
- The AAAI Conference on Artificial Intelligence (AAAI), 2020 ~ 2021, 2024
- Annual Meeting of the Association for Computational Linguistics (ACL), 2020
- ACM International Conference on Information and Knowledge Management (CIKM), 2020
- IEEE International Conference on Data Mining (ICDM), 2019

**Journal Article Reviewer**

- Elsevier Neurocomputing
- ACM Transactions on Intelligent Systems and Technology (TIST)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- Transactions on Machine Learning Research (TMLR)