

Email: liyanzeng@stu.pku.edu.cn

Github: github.com/lsvih

Mobile: +86-186-\*\*\*\*-\*\*\*\*

Address: 5# Yiheyuan Road, Haidian, Beijing

## RESEARCH INTERESTS

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Natural Language Processing (NLP), Applications of NLP, Knowledge Graph (KG), and KG incorporated Large Language Models, ML Sys.

## EDUCATION

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### Peking University

Beijing, China

- Wangxuan Institute of Computer Technology  
PhD candidate, in Computer Application Technology

*September 2021 - Present*

### Chinese Academy of Sciences

Beijing, China

- Institute of Information Engineering  
M.Eng., in Computer Science and Technology

*September 2018 - June 2021*

### Central South University

Hunan, China

- Powder Metallurgy Research Institute  
B.Eng., in Powder Materials Science and Engineering

*September 2012 - June 2016*

## SELECTED PUBLICATIONS

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- MedDiT: A Knowledge-Controlled Diffusion Transformer Framework for Dynamic Medical Image Generation in Virtual Simulated Patient  
**Yaneng Li**, Cheng Zeng, Jinchao Zhang, Jie Zhou, Lei Zou  
*In Preprint*
- Leveraging Large Language Model as Simulated Patients for Clinical Education  
**Yaneng Li**, Cheng Zeng, Jialun Zhong, Ruoyu Zhang, Minhao Zhang, Lei Zou  
*In Preprint*
- Synergistic Knowledge Integration for Answering Complex Questions with Multiple Sources  
Minhao Zhang\*, **Yanzeng Li\***, Yongliang Ma, Ruoyu Zhang, Lei Zou  
*In Preprint*
- gBuilder: A Scalable Knowledge Graph Construction System for Unstructured Corpus  
**Yanzeng Li**, Lei Zou  
*In Preprint*
- A Progressive Question Answering Framework Adaptable to Multiple Knowledge Sources  
Yirui Zhan\*, **Yanzeng Li\***, Minhao Zhang, Lei Zou  
In Proceedings of the 8th APWeb-WAIM joint international conference on Web and Big Data (Demo Track), 2024
- LLMaAA: Making Large Language Models as Active Annotators  
Ruoyu Zhang, **Yanzeng Li**, Yongliang Ma, Ming Zhou, Lei Zou.  
In Findings of the Association for Computational Linguistics: EMNLP 2023
- CORD: A Three-Stage Coarse-to-Fine Framework for Relation Detection in Knowledge Base Question Answering  
**Yanzeng Li**, Sen Hu, Wenjuan Han, Lei Zou.  
In Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM), 2023
- AtTGen: Attribute Tree Generation for Real-World Attribute Joint Extraction  
**Yanzeng Li**, Bingcong Xue, Ruoyu Zhang, Lei Zou.  
In Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics (ACL), 2023

- A Novel Table-to-Graph Generation Approach for Document-Level Joint Entity and Relation Extraction  
Ruoyu Zhang, **Yanzeng Li**, Lei Zou.  
In Proceedings of *the 61th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2023
- Exploiting Ubiquitous Mentions for Document-Level Relation Extraction  
Ruoyu Zhang, **Yanzeng Li**, Minhao Zhang, Lei Zou In Proceedings of *the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2023
- VGStore: A Multimodal Extension to SPARQL for Querying RDF Scene Graph  
**Yanzeng Li**, Zilong Zheng, Wenjuan Han, Lei Zou  
In Proceedings of *the 21st International Semantic Web Conference (ISWC)*, 2022
- Crake: Causal-Enhanced Table-Filler for Question Answering over Large Scale Knowledge Base  
Minhao Zhang, Ruoyu Zhang, **Yanzeng Li**, Lei Zou  
In Findings of *the Association for Computational Linguistics: NAACL 2022*
- Introducing Semantic Information for Numerical Attribute Prediction over Knowledge Graphs  
Bingcong Xue, **Yanzeng Li**, Lei Zou  
In Proceedings of *the 21st International Semantic Web Conference (ISWC)*, 2022
- Enhancing Pre-Trained Language Representations Based on Contrastive Learning for Unsupervised Keyphrase Extraction  
Zhaohui Wang, Xinghua Zhang, **Yanzeng Li**, Yubin Wang, Jiawei Sheng, Tingwen Liu, Hongbo Xu  
In Proceedings of *The 32nd International Conference on Software Engineering & Knowledge Engineering (SEKE)*, 2022
- Enhancing Chinese Pre-trained Language Model via Heterogeneous Linguistics Graph  
**Yanzeng Li**, Jiangxia Cao, Xin Cong, Zhenyu Zhang, Bowen Yu, Hongsong Zhu, Tingwen Liu.  
In Proceedings of *the 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2022
- Identifying Reply Relationships from Telegram Groups Using Multi-Features Fusion  
Panpan Zhang, Yao Qi, **Yanzeng Li**, Jing Ya, Xuebin Wang, Tingwen Liu, Jinqiao Shi.  
In Proceedings of *2021 IEEE Sixth International Conference on Data Science in Cyberspace (DSC)*, 2021
- Relation Extraction based on Data Partition and Representation Integration [*Best Paper Runner up*]  
Jiapeng Zhao, Panpan Zhang, Tingwen Liu, Zhenyu Zhang, **Yanzeng Li**, Jinqiao Shi  
In Proceedings of *2021 IEEE Sixth International Conference on Data Science in Cyberspace (DSC)*, 2021
- Semi-Open Attribute Extraction from Chinese Functional Description Text  
Li Zhang, **Yanzeng Li**\*, Ruoyu Zhang, Wenjie Li.  
In Proceedings of *the 13th Asian Conference on Machine Learning (ACML)*, 2021.
- FITAnnotator: A Flexible and Intelligent Text Annotation System  
**Yanzeng Li**, Bowen Yu, Li Quangang, Tingwen Liu.  
In Proceedings of *the 2021 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)* (Demonstrations), 2021
- Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention  
**Yanzeng Li**, Bowen Yu, Mengge Xue, Tingwen Liu.  
In Proceedings of *the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2020
- BiG-Transformer: Integrating Hierarchical Features for Transformer via Bipartite Graph  
Xiaobo Shu, Mengge Xue, **Yanzeng Li**, Zhenyu Zhang, Tingwen Liu.  
In Proceedings of *2020 International Joint Conference on Neural Networks (IJCNN)*, 2020
- 2ch-TCN: A Website Fingerprinting Attack over Tor Using 2-channel Temporal Convolutional Networks  
Meiqi Wang, **Yanzeng Li**, Xuebin Wang, Tingwen Liu, Jinqiao Shi, Muqian Chen.  
In Proceedings of *2020 IEEE Symposium on Computers and Communications (ISCC)*, 2020

- ICNet: Incorporating Indicator Words and Contexts to Identify Functional Description Information  
Qu Liu, Zhenyu Zhang, **Yanzeng Li**, Tingwen Liu, Diying Li, Jinqiao Shi.  
In Proceedings of *2019 International Joint Conference on Neural Networks (IJCNN)*, 2019
- Character-based BiLSTM-CRF Incorporating POS and Dictionaries for Chinese Opinion Target Extraction  
**Yanzeng Li**, Tingwen Liu, Diying Li, Quangan Li, Jinqiao Shi, Yanqiu Wang.  
PMLR 95:518-533, In Proceedings of *the 10th Asian Conference on Machine Learning (ACML)*, 2018

## PROFESSIONAL SERVICE

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- Journal Reviewer, IEEE Transactions on Knowledge and Data Engineering (TKDE)
- Journal Reviewer, Knowledge-Based Systems (KBS)
- Journal Reviewer, Journal of Medical Internet Research (JMIR)
- Program Committee Member, the AAAI Conference on Artificial Intelligence (AAAI), 2021/2022/2023/2024
- Program Committee Member, the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021/2022/2023, & EMNLP Industry Track 2023 & WiNLP 2024
- Program Committee Member, the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2023
- Program Committee Member, the Annual Meeting of the Association for Computational Linguistics (ACL), 2020/2021/2022
- Program Committee Member, the Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT), 2021/2022/2024
- Program Committee Member, the ACM International Conference on Multimedia (ACM MM), 2024
- Program Committee Member, the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023/2024
- Program Committee Member, the 1st Conference on Language Modeling (COLM), 2024
- Program Committee Member, The ACM International Conference on Information and Knowledge Management (CIKM), 2023/2024 & Demo Track 2023/2024
- Reviewer, The 13th CCF International Conference on Natural Language Processing and Chinese Computing (NLPCC 2024)
- Review Assistant/Sub Reviewer for IJCAI 2018/2021, etc.
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## AWARDS

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- **The 3rd Prize of PKU Scholarship**  
Peking University 2023
- **Merit Student**  
Peking University 2022, 2023
- **Merit Student**  
Wangxuan Institute of Computer Technology, Peking University 2022, 2023
- **Ubiquant Scholarship**  
Peking University 2022
- **IIE Presidential Special Scholarship (Top 1%)**  
Institute of Information Engineering, Chinese Academy of Sciences 2020
- **Laboratory Excellent Student Scholarship.**  
Institute of Information Engineering, Chinese Academy of Sciences 2020
- **Merit Student**  
University of Chinese Academy of Sciences 2019, 2020
- **Outstanding Student League Cadres**  
Central South University 2015

## (PREVIOUS) INDUSTRY EXPERIENCE

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- **(Boloni Corp) Jufenqi E-Business Co.,Ltd** Beijing  
*Web Developer, mostly developed the front-end* *August 2016 - May 2017*
  - Developed B2B&B2C products, ARP&CRM and FMIS, etc.
- **(Boloni Corp) KuaiKuaiZhuang Technology Co., Ltd** Beijing  
*Web Developer & App Developer* *June 2016 - September 2016*
  - Technology architecture design. Developed official website, iOS app, etc.
- **ShanHe Design Inc. [SHD 834776]** Beijing  
*Full Stack Developer* *March 2016 - June 2016*
  - Developed official website, online store, recommended system, etc.