

# Yanzeng Li

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## RESEARCH INTERESTS

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Natural Language Processing (NLP), Applications of NLP, Information Extraction (IE) for Knowledge Graph (KG), and KG incorporated Large Language Models.

## EDUCATION

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### Peking University

Beijing, China

- Wangxuan Institute of Computer Technology  
PhD student, 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*

## RESEARCH EXPERIENCE

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### Data Management Lab

WICT, PKU

- *Research Intern & Student, supervised by Lei Zou*

*June 2021 - Present*

### Knowledge Discovery for Security Group

IIE, CAS

- *Research Intern & Student, supervised by Tingwen Liu*

*May 2017 - June 2021*

### State Key Laboratory for Powder Metallurgy

PMRI, CSU

- *Research Intern, supervised by Huachan Fang*

*2015 - April 2016*

## SELECTED PUBLICATIONS

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- gBuilder: A Scalable Knowledge Graph Construction System for Unstructured Corpus  
**Yanzeng Li**, Lei Zou  
In *pre-print*, 2022
- 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
- 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
- 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 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
- 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 Quangan, 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
- 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, IEEE Open Journal of Signal Processing (OJSP)
- 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
- 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 2021 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)
- Program Committee Member, 2023 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2023)
- Program Committee Member, The 32nd ACM International Conference on Information and Knowledge Management Demonstration Track, (CIKM 2023 Demo Track)
- Review Assistant/Sub Reviewer for IJCAI 2018/2021, etc.
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## AWARDS

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- **Ubiquant Scholarship**  
Peking University 2022
- **Merit Student**  
Peking University 2022
- **Merit Student**  
Wangxuan Institute of Computer Technology, 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 2020
- **Merit Student**  
University of Chinese Academy of Sciences 2019
- **Outstanding Student League Cadres**  
Central South University 2015

## 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.