Yanzeng Li

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Research Intersts

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

Education

Peking University — Beijing, China
- Wangxuan Institute of Computer Technology — *September 2021 - Present*
  PhD student, in Computer Application Technology

Chinese Academy of Sciences — Beijing, China
- Institute of Information Engineering — *September 2018 - June 2021*
  M.Eng., in Computer Science and Technology

Central South University — Hunan, China
- Powder Metallurgy Research Institute — *September 2012 - June 2016*
  B.Eng., in Powder Materials Science and Engineering

Research Experience

- **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

- 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 Procceddings 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 Procceddings 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 Procceddings 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 Procceddings 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 Procceddings 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 Procceddings 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 Procceddings 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 Procceddings 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, Quangang Li, Jinqiao Shi, Yanqiu Wang.
  PMLR 95:518-533, In Proceedings of *the 10th Asian Conference on Machine Learning (ACML)*, 2018.

PROFESSIONAL SERVICE

- 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, the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023/2024
- 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.
- ...

Awards

- **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

- **(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.