Changzhi Sun

LinGang Lab
East Chain Normal University
No. 3663, North Zhongshan Rd., Shanghai, China

Phone: (86)13918382480
Email: czsun.cs@gmail.com
Homepage: http://czsun.site

Research Interests

AI for Science

Deep Reasoning, Information Extraction, Natural Language Processing

Education

East China Normal University	M.S., Ph.D.	Computer Science	2014.09 - 2019.12
Anhui Normal University	B.Eng.	Computer Science	2010.09 - 2014.06

Experience

LinGang Lab   *Aug. 2023 - Present*

Group: AI Drug
Position: Assistant Researcher
Host: Honglin Li
Topic: AI for Drug Desgin

ByteDance   *June. 2020 - June. 2023*

Group: AI Lab
Position: NLP Researcher
Host: Hao Zhou and Lei Li
Topic: Deep Reasoning in NLP

Microsoft Research Asia   *Dec. 2018 - May. 2019*

Group: Natural Language Computing (NLC)
Position: Research intern
Host: Yeyun Gong and Nan Duan

Publications

[*: equal contribution; †: corresponding authors]

Under Review

[1]. *CLARA: A Benchmark for Complex Logical Reasoning Over Natural Text*
Xinbo Zhang*, **Changzhi Sun***, Jingjie Chen, Yue Zhang, Lei Li, Hao Zhou and Xinyu Dai.

[2]. *AnalogyKB: Unlocking Analogical Reasoning in Language Models with A Million-scale Knowledge Base*
Siyu Yuan, Jiangjie Chen, **Changzhi Sun**, Jiaqing Liang, Deqing Yang and Yanghua Xiao.

[3]. *Can Pre-trained Models Really Generate Single-Step Textual Entailment?*
Liping Yuan, Xinbo Zhang, **Changzhi Sun**[†], Xiaoqing Zheng and Hao Zhou.

[4]. *Leveraging High-order Interactions for Unified Entity Relation Extraction*
Yijun Wang*, **Changzhi Sun***, Yuanbin Wu, Zhao Zhou, Lei Li and Junchi Yan.

Proceedings

[1]. *Factual Error Correction via Iterative Constrained Editing*
Jiangjie Chen, Rui Xu, Wenxuan Zeng, **Changzhi Sun**[†], Lei Li and Yanghua Xiao[†].
Full paper, AAAI 2023

[2]. *E-KAR: A Benchmark for Rationalizing Natural Language Analogical Reasoning*
Jiangjie Chen, Rui Xu, Ziquan Fu, Wei Shi, Zhongqiao Li, Xinbo Zhang, **Changzhi Sun**[†], Lei Li, Yanghua Xiao[†] and Hao Zhou.
Findings, ACL 2022

[3]. *Learning Logic Rules for Document-Level Relation Extraction*
Dongyu Ru, **Changzhi Sun**[†], Jiangtao Feng, Lin Qiu, Hao Zhou, Weinan Zhang, Yong Yu and Lei Li.
Long paper, EMNLP 2021

[4]. *Probabilistic Graph Reasoning for Natural Proof Generation*
Changzhi Sun*, Xinbo Zhang*, Jiangjie Chen, Chun Gan, Yuanbin Wu, Jiaze Chen, Hao Zhou and Lei Li.
Findings, ACL 2021

[5]. *UniRE: A Unified Label Space for Entity Relation Extraction*
Yijun Wang*, **Changzhi Sun***, Yuanbin Wu, Zhao Zhou, Lei Li and Junchi Yan.
Long paper, ACL 2021

[6]. *Joint Type Inference on Entities and Relations via Graph Convolutional Networks*
Changzhi Sun, Yeyun Gong, Yuanbin Wu, Ming Gong, Daxin Jiang, Man Lan, Shiliang Sun and Nan Duan.
Long paper, ACL 2019

[7]. *Distantly Supervised Entity Relation Extraction with Adapted Manual Annotations*
Changzhi Sun, Yuanbin Wu.
Full paper, AAAI 2019

[8]. *Extracting Entities and Relations with Joint Minimum Risk Training*
Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun, Wenting Wang, Kuang-Chih Lee, and Kewen Wu.
Long paper, EMNLP 2018

[9]. *Large-scale Opinion Relation Extraction with Distantly Supervised Neural Network*
Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun and Qi Zhang.
Long paper, EACL 2017

[10]. *Few Clean Instances Help Denoising Distant Supervision*
Yufang Liu, Ziyin Huang, Yijun Wang, **Changzhi Sun**, Man Lan, Yuanbin Wu, Xiaofeng Mou and Jian Tang.
Long paper, COLING 2022

[11]. *Causal Intervention Improves Implicit Sentiment Analysis*
Siyin Wang, Jie Zhou, **Changzhi Sun**, Junjie Ye, Tao Gui, Qi Zhang and Xuanjing Huang.
Long paper, COLING 2022

[12]. *Logic-Regularized Reasoning for Interpretable Fact Verification*
Jiangjie Chen, Qiaoben Bao, **Changzhi Sun**, Xinbo Zhang, Jiaze Chen, Hao Zhou, Yanghua Xiao and Lei Li.
Full paper, AAAI 2022

[13]. ENPAR:*Enhancing Entity and Entity Pair Representations for Joint Entity Relation Extraction*
Yijun Wang, **Changzhi Sun**[†], Yuanbin Wu[†], Zhao Zhou, Lei Li and Junchi Yan[†].
Long paper, EACL 2021

[14]. *Is "hot pizza" Positive or Negative? Mining Target-aware Sentiment Lexicons*
Jie Zhou, Yuanbin Wu, **Changzhi Sun** and Liang He.
Long paper, EACL 2021

[15]. *Pre-training Entity Relation Encoder with Intra-span and Inter-span Information*
Yijun Wang, **Changzhi Sun**, Yuanbin Wu, Junchi Yan, Peng Gao and Guotong Xie.
Long paper, EMNLP 2020

[16]. *BiGCNN:Bidirectional Gated Convolutional Neural Network for Chinese Named Entity Recognition*
Tianyang Zhao, Haoyan Liu, Qianhui Wu, **Changzhi Sun**, Dongdong Zhan and Zhoujun Li.
Full paper, DASFAA 2020

Academic Activities

Conference PC member: ARR(ACL Rolling Review), NAACL(2021), AAAI(2022, 2021), ACL(2023, 2022, 2021, 2020), EMNLP(2023, 2022, 2021, 2020), EACL(2023), COLING(2022, 2020).

Students

Jiangjie Chen (intern at ByteDance, FDU Ph.D, Jul. 2021 - Jun. 2023)

Xuantao Lu (intern at ByteDance, FDU master → Xiaohongshu, Mar. 2022 - Jun. 2023)

Haoran Li (intern at ByteDance, HKUST Ph.D, Mar. 2022 - Aug. 2022)

Liping Yuan(intern at ByteDance, FDU master → ByteDance, Mar. 2022 - Dec. 2022)

Chi Han (intern at ByteDance, UIUC Ph.D, Jan. 2021 - Aug. 2021)

Dongyu Ru (intern at ByteDance, SJTU master → Amazon, Jan. 2021 - Jan. 2022)

Yijun Wang (intern at ByteDance, SJTU master → Tencent, Mar. 2021 - Dec. 2022)

Runxi Xu (intern at ByteDance, PKU master → ByteDance, Sep. 2020 - Feb. 2021)