

Kai Zhang

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EDUCATION

The Ohio State University

Ph.D. in Computer Science and Engineering

Ohio, USA

Aug 2022-May 2027 (Expected)

Zhejiang University City College

B.E. in Computer Science and Technology

Zhejiang, China

Sept 2016-Jun 2020

• **GPA:** 3.99/4.0 (93.51/100) **Rank:** 1/118

EXPERIENCE

OSU NLP Group, Ohio State University

Research Assistant; Advisor: Yu Su

Ohio, USA

Aug 2022-Present

STCA Semantics and Knowledge Team, Microsoft

Research Intern; Host: Chongyang Tao and Tao Shen

Beijing, China

Sept 2022-July 2022

Minds, Machines, and Society Group, Dartmouth College

Research Intern; Advisor: Soroush Vosoughi

New Hampshire, USA

June 2020-Sept 2020

Tsinghua Natural Language Processing Lab (THUNLP), Tsinghua University

Research Assistant; Advisor: Zhiyuan Liu

Beijing, China

Nov 2019-Mar 2021

City College Artificial Intelligence (CCAI), Zhejiang University City College

Research Assistant; Advisors: Lin Sun and Fanwei Zhu

Zhejiang, China

Jan 2018-Nov 2019

SELECTED PUBLICATIONS

(* indicates equal contribution, † indicates first student author)

1. **Kai Zhang**, Bernal Jiménez Gutiérrez, Yu Su. Aligning Instruction Tasks Unlocks Large Language Models as Zero-Shot Relation Extractors. In Findings of ACL 2023.
2. **Kai Zhang**, Chongyang Tao, Tao Shen, Can Xu, Xiubo Geng, Binxing Jiao, and Daxin Jiang. LED: Lexicon-Enlightened Dense Retriever for Large-Scale Retrieval. In TheWebConf (WWW) 2023.
3. Weicheng Ma, Renze Lou, **Kai Zhang**, Lili Wang, and Soroush Vosoughi. GradTS: A Gradient-Based Automatic Auxiliary Task Selection Method Based on Transformer Networks. In EMNLP 2021.
4. Fanwei Zhu, Yuan Fang, **Kai Zhang**†, Kevin Chen-Chuan Chang, Hongtai Cao, Zhen Jiang, and Minghui Wu. Unified and Incremental SimRank: Index-free Approximation with Scheduled Principle. In TKDE.
5. Weicheng Ma*, **Kai Zhang***, Renze Lou, Lili Wang, and Soroush Vosoughi. Contributions of Transformer Attention Heads in Multi- and Cross-lingual Tasks. In ACL 2021 (**Oral**).
6. **Kai Zhang***, Yuan Yao*, Ruobing Xie, Xu Han, Zhiyuan Liu, Fen Lin, Leyu Lin, and Maosong Sun. Open Hierarchical Relation Extraction. In NAACL-HLT 2021.
7. Yuan Yao, Haoxi Zhong, Zhengyan Zhang, Xu Han, Xiaozhi Wang, **Kai Zhang**, Chaojun Xiao, Guoyang Zeng, Zhiyuan Liu, and Maosong Sun. Adversarial Language Games for Advanced Natural Language Intelligence. In AAAI 2021.
8. Lin Sun*, Jiquan Wang*, **Kai Zhang**, Fangsheng Weng, and Yindu Su. RpBERT: A Text-image Relation Propagation-based BERT Model for Multimodal NER. In AAAI 2021.
9. Lin Sun*, **Kai Zhang***†, Fule Ji, and Zhenhua Yang. TOI-CNN: A Solution of Information Extraction on Chinese Insurance Policy. In NAACL-HLT 2019.

PREPRINTS

1. Tao Shen, Xiubo Geng, Chongyang Tao, Can Xu, **Kai Zhang**, Daxin Jiang. UnifieR: A Unified Retriever for Large-Scale Retrieval. arXiv:2205.11194. 2022.

SELECTED HONORS & AWARDS

TheWebConf (WWW) 2023 Student Travel Award	2023
Honor for Seeking Truth & Commencement Student Speaker (Top 1), Zhejiang University City College	2020
National Scholarship (Top 1%), Ministry of Education of P.R.China	2019
Chinese College Students Self-Motivated Stars (Top 200 in China), All-China Students' Federation	2019
Merit-based Scholarship (Top 1%), Zhejiang University City College	2017-2019
Zhejiang Province Scholarship (Top 1%), Department of Education of Zhejiang	2017

SERVICES

Secondary Reviewer: WSDM'21; NAACL-HLT'21; ACL'21; EMNLP'21

PC Member/ Reviewer: ARR (since 22); CCKS'22; EMNLP'22; AAAI'23; WWW'23; ACL'23; KDD'23; NeurIPS'23

SKILLS

Programming Languages: Python; Java; C/C++; Matlab; R; Objective-C; L^AT_EX

Deep Learning Frameworks: PyTorch; TensorFlow

English (TOEFL): 107 (Reading 29, Listening 28, Speaking 23, Writing 27)