

Kai Zhang

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Personal Website: <https://drogozhang.github.io>

EDUCATION

The Ohio State University

Ohio, USA

Ph.D. in Computer Science and Engineering

Aug 2022-May 2027 (Expected)

Zhejiang University City College

Zhejiang, China

B.E. in Computer Science and Technology

Sept 2016-Jun 2020

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

EXPERIENCE

OSU NLP Group, Ohio State University

Ohio, USA

Research Assistant; Advisor: Yu Su

Aug 2022-Present

STCA Semantics and Knowledge Team, Microsoft

Beijing, China

Research Intern; Host: Chongyang Tao and Tao Shen

Sept 2022-July 2022

Minds, Machines, and Society Group, Dartmouth College

New Hampshire, USA

Research Intern; Advisor: Soroush Vosoughi

June 2020-Sept 2020

Tsinghua Natural Language Processing Lab (THUNLP), Tsinghua University

Beijing, China

Research Assistant; Advisor: Zhiyuan Liu

Nov 2019-Mar 2021

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

Zhejiang, China

Research Assistant; Advisors: Lin Sun and Fanwei Zhu

Jan 2018-Nov 2019

SELECTED PUBLICATIONS

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

1. 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.
2. 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.
3. 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**).
4. **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.
5. 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.
6. 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.
7. 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.
2. **Kai Zhang**, Chongyang Tao, Tao Shen, Can Xu, Xiubo Geng, Binxing Jiao, Daxin Jiang. LED: Lexicon-Enlightened Dense Retriever for Large-Scale Retrieval. arXiv:2208.13661. 2022.

SELECTED HONORS & AWARDS

Honor for Seeking Truth & Commencement Student Speaker (Top 1)	Zhejiang University City College, 2020
Special National Scholarship (Top 10 in Zhejiang Province)	Ministry of Education of P.R.China, 2019
National Scholarship (Top 1%)	Ministry of Education of P.R.China, 2019
Chinese College Students Self-Improvement Stars (Top 200 in China)	All-China Students' Federation, 2019
First Class Scholarship for Academic Performance (Top 1%)	Zhejiang University City College, 2017-2019
First Class Scholarship for Competition Performance (Top 1%)	Zhejiang University City College, 2017-2018
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: CCKS'22; EMNLP'22; AAAI'23; WWW'23; ACL'23

SKILLS

Programming Languages: Python; Java; C/C++; Matlab; R; Objective-C; \LaTeX

Deep Learning Frameworks: PyTorch; TensorFlow

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