

# 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**, Chongyang Tao, Tao Shen, Can Xu, Xiubo Geng, Binxing Jiao, and Daxin Jiang. LED: Lexicon-Enlightened Dense Retriever for Large-Scale Retrieval. In WWW 2023.
2. 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.
3. Fanwei Zhu, Yuan Fang, **Kai Zhang**<sup>†</sup>, Kevin Chen-Chuan Chang, Hongtai Cao, Zhen Jiang, and Minghui Wu. Unified and Incremental SimRank: Index-free Approximation with Scheduled Principle. In TKDE.
4. 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**).
5. **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.
6. 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.
7. 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.
8. Lin Sun\*, **Kai Zhang**\*<sup>†</sup>, 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

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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

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**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

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**Programming Languages:** Python; Java; C/C++; Matlab; R; Objective-C;  $\text{\LaTeX}$

**Deep Learning Frameworks:** PyTorch; TensorFlow

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