

## Zhaowei Wang

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### EDUCATION

The Hong Kong University of Science and Technology Sept. 2023-Present  
*PhD* in Computer Science and Engineering, Department of Computer Science and Engineering

The Hong Kong University of Science and Technology Sept. 2021-Aug. 2023  
*MPhil* in Computer Science and Engineering, Department of Computer Science and Engineering

◇ Overall GPA: 4.18/4.3

Harbin Institute of Technology Sept. 2016-Jun. 2020  
*BEng* in Computer Science and Technology, School of Computer Science and Technology

◇ Overall GPA: 3.91/4.0 (94.45/100); Ranking: 3/254

### SELECTED PUBLICATION

**Zhaowei Wang**, Haochen Shi, Weiqi Wang, Tianqing Fang, Hongming Zhang, Sehyun Choi, Xin Liu, and Yangqiu Song, **AbsPyramid**: Benchmarking the Abstraction Ability of Language Models with a Unified Entailment Graph, arXiv.

Sehyun Choi, Tianqing Fang, **Zhaowei Wang**, and Yangqiu Song, **KCTS**: Knowledge-Constrained Tree Search Decoding with Token-Level Hallucination Detection, EMNLP 2023

Zheye Deng, Weiqi Wang, **Zhaowei Wang**, Xin Liu, and Yangqiu Song, **Gold**: A Global and Local-aware Denoising Framework for Commonsense Knowledge Graph Noise Detection, Findings of EMNLP 2023

Qing Zong, **Zhaowei Wang**, Baixuan Xu, Tianshi Zheng, Haochen Shi, Weiqi Wang, Yangqiu Song, Ginny Wong, and Simon See, **TILFA**: A Unified Framework for Text, Image, and Layout Fusion in Argument Mining, the 10th ArgMining Workshop (at EMNLP 2023)

**Zhaowei Wang**, Quyet V. Do, Hongming Zhang, Jiayao Zhang, Weiqi Wang, Tianqing Fang, Yangqiu Song, Ginny Y. Wong, and Simon See, **COLA**: Contextualized Commonsense Causal Reasoning from the Causal Inference Perspective, ACL 2023 (\*oral)

**Zhaowei Wang**, Hongming Zhang, Tianqing Fang, Yangqiu Song, Ginny Y. Wong, and Simon See, *SubeventWriter*: Iterative Sub-event Sequence Generation with Coherence Controller, EMNLP 2022 (\*oral)

**Zhaowei Wang**, Legal Element-oriented Modeling with Multi-view Contrastive Learning for Legal Case Retrieval, IJCNN 2022

### SERVICE

**Conference Reviewer**: ACL 2023; EMNLP 2022, 2023; KDD 2023; CIKM 2023; AAAI 2024; ACL ARR 2023 Feb, Apr, June, Aug; COLING 2022; SDM 2023; AACL 2022, 2023; AKBC 2022; EACL 2023, 2024

**External Journal Reviewer**: JAIR 2023 Apr

### AWARDS AND SCHOLARSHIPS

◇ **HKUST RedBird PhD Award** 2023-2024

◇ **Hong Kong PhD Fellowship** 2023

- ◇ National Scholarship (top 2% students) 2018-2019
- ◇ National Scholarship (top 2% students) 2017-2018
- ◇ Merit Student in Heilongjiang Province (top 2.5% students) 2017-2018
- ◇ National Scholarship (top 2% students) 2016-2017

### **SELECTED INTERNSHIP EXPERIENCE**

**NVIDIA Corporation (Hong Kong SAR) Feb. 2022-Jun. 2022/Sept. 2022-Jan. 2023/May 2023-Aug. 2023**

**Role:** Research Intern; **Topic:** Event Understanding

**Responsibilities (Feb. 2022-Jun. 2022):**

- ◇ Surveyed current works about scripts and processes.
- ◇ Designed a new sub-event generation task and a coherence-based model and published a paper on EMNLP 2022.

**Responsibilities (Sept. 2022-Jan. 2023):**

- ◇ Surveyed and learned the basics of Causal Inference
- ◇ Designed a new task of commonsense causal reasoning in a **contextualized way** and proposed a causal inference-based framework, **COLA**, to solve this task, accepted by ACL 2023.

**Responsibilities (May 2023-Aug. 2023):**

- ◇ Participated and supervised an undergraduate student in the First Shared Task in Multimodal Argument Mining of the 10th Workshop on Argument Mining at EMNLP 2023
- ◇ Our system of multi-modal argument mining, **TILFA**, obtains the **first place** in this task and is accepted.

**Beijing Laiye Network Technology Co., Ltd.**

**April 2021-Aug. 2021**

**Role:** Research Intern; **Topic:** Legal AI, Natural Language Processing

**Responsibilities:**

- ◇ Conducted research on legal case retrieval to search for similar legal cases.
- ◇ Designed a multi-view contrastive learning algorithm for legal case retrieval and published a paper on IJCNN 2022.

**BIZSEER Co., LTD**

**Nov. 2019-May 2020**

**Role:** Research Intern; **Topic:** Anomaly Detection, Machine Learning

**Responsibilities:**

- ◇ Learned Random Forest, Isolation Forest, and RRCF algorithms and understood the usage of these algorithms in the anomaly detection problem.
- ◇ Improved RRCF algorithm, such as features selection (F1-score increased by 3.7%), cut-dimension improvement (F1-score increased by 3.6%), and detection process improvement (test time decreased by 30.9%).
- ◇ Added an active learning module to RRCF and improved the detection ability of the RRCF algorithm with a small number of labels (F1-score increased by 9%).
- ◇ Wrote a paper with the mentor and other students from Tsinghua NetMan Lab, accepted by ICCCN2020.

### **TEACHING EXPERIENCE**

- ◇ **Natural Language Processing.** Sept. 2023-Dec. 2023  
MSBD5018: Postgraduate Level The Hong Kong University of Science and Technology
- ◇ **Natural Language Processing.** Feb. 2023-May 2023  
MSBD5018: Postgraduate Level The Hong Kong University of Science and Technology
- ◇ **Programming with C++.** Sept. 2022-Dec. 2022  
COMP2011: Undergraduate Level The Hong Kong University of Science and Technology
- ◇ **Introduction to Computer Science.** Feb. 2022-May 2022  
COMP1021: Undergraduate Level The Hong Kong University of Science and Technology
- ◇ **Advanced C Language and Programming** Sept. 2019-Dec. 2019  
Undergraduate Level Harbin Institute of Technology