

# YE LIU (刘 烨)

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## EDUCATION

<b>Hong Kong University of Science and Technology (HKUST), Supervisor: Prof. Xiaofang Zhou</b> <i>Visiting PhD Student, in Computer Science and Engineering</i>	HK, China 2024.5 - now
<b>University of Science and Technology of China (USTC), Supervisor: Prof. Enhong Chen</b> <i>Ph.D., in Data Science - Computer Science and Technology, GPA: 3.90/4.3</i>	Hefei, China 2019.9 - now
<b>University of Science and Technology of China (USTC)</b> <i>B.E., in Electronic Information Engineering, GPA: 3.78/4.3</i>	Hefei, China 2015.9 - 2019.6

## RESEARCH INTEREST

- **Natural Language Processing:** Information Extraction.
- **Knowledge Graph:** Construction and Application.
- **Large Language Model:** LLM-based Multi-agent, LLM Planner.

## INTERNSHIP EXPERIENCE

<b>Huawei - Cloud &amp; AI</b> <i>Algorithm Intern</i> - Job Description: Text Generation, BERT-based Applications.	Hangzhou, China 2019.1 - 2019.8
<b>ByteDance - AI LAB</b> <i>Algorithm Intern</i> - Job Description: RLHF for Large Language Models, especially focusing on SFT and Reward Model.	Beijing, China 2023.2 - 2023.8

## HONORS

- 2023, CICA Finalist of Best Paper Award (Top-3)
- 2019, 2020, 2022, 2023, Graduate Student First-class Academic Scholarship
- 2021, Graduate Student Second-class Academic Scholarship
- 2015, National Scholarship

## SERVICE

Reviewer: TKDE, TBD, ACL

## PUBLICATIONS

### 1. Natural Language Processing:

- **Ye Liu**, Han Wu, Zhenya Huang, Hao Wang, Yuting Ning, Jianhui Ma, Qi Liu, Enhong Chen\*. TechPat: Technical Phrase Extraction for Patent Mining. ACM Transactions on Knowledge Discovery from Data (ACM TKDD), 2023.
- **Ye Liu**, Han Wu, Zhenya Huang, Hao Wang, Jianhui Ma, Qi Liu, Enhong Chen\*, Hanqing Tao and Ke Rui. Technical Phrase Extraction for Patent Mining: A Multi-level Approach. The 2020 IEEE International Conference on Data Mining (ICDM), 2020.
- Kehang Wang, **Ye Liu**, Kai Zhang, Qi Liu, Yankun Ren, Xinxing Yang, Longfei Li, Jun Zhou. QoMRC: Query-oriented Machine Reading Comprehension Framework for Aspect Sentiment Triplet Extraction. The 29th International Conference on Database Systems for Advanced Applications (DASFAA), 2024.
- Feng Hu, Kai Zhang, **Ye Liu**, Meikai Bao, Xukai Liu, Junyu Lu, Linbo Zhu, Qi Liu. Learnable Relational Knowledge Distillation Through Orthogonal Projection. ACL ARR 2024 June (Under Review).

## PUBLICATIONS

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- Yixiao Ma, Shiwei Tong, **Ye Liu**, Likang Wu, Qi Liu, Enhong Chen\*, Wei Tong, Zi Yan. Enhanced Representation Learning for Examination Papers with Hierarchical Document Structure. The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2021.
- Meikai Bao, Qi Liu\*, Kai Zhang, **Ye Liu**, Linan Yue, longfei li, Jun Zhou. Keep Skills in Mind: Understanding and Implementing Skills in Commonsense Question Answering. The 32nd International Joint Conference on Artificial Intelligence (IJCAI), 2023.
- Songtao Fang, Zhenya Huang\*, Ming He, Shiwei Tong, Xiaoqing Huang, **Ye Liu**, Jie Huang, Qi Liu. Guided Attention Network for Concept Extraction. The 30th International Joint Conference on Artificial Intelligence (IJCAI), 2021.
- Guanqi Zhu, Hanqing Tao, Han Wu, Liyi Chen, **Ye Liu**, Qi Liu, Enhong Chen\*. Text Classification via Learning Semantic Dependency and Association. The 2022 IEEE World Congress on Computational Intelligence - IJCNN (IJCNN), 2022.
- Xin Jin, Qi Liu\*, Linan Yue, **Ye Liu**, Lili Zhao, Weibo Gao, Zheng Gong, Kai Zhang, Haoyang Bi. Diagnosis then Aggregation: An Adaptive Ensemble strategy for Keyphrase Extraction. CAAI International Conference on Artificial Intelligence (CICAI), 2023. (Finalist of Best Paper Award!)

### 2. Knowledge Graph:

- **Ye Liu**, Kai Zhang\*, Zhenya Huang, Kehang Wang, Yanghai Zhang, Qi Liu, Enhong Chen\*. Enhancing Hierarchical Text Classification through Knowledge Graph Integration. Findings of the 61st annual meeting of the Association for Computational Linguistics (ACL-Findings), 2023.
- Yanghai Zhang, **Ye Liu**, Shiwei Wu, Kai Zhang\*, Xukai Liu, Qi Liu, Enhong Chen. Leveraging Entity Information for Cross-Modality Correlation Learning: The Entity-Guided Multimodal Summarization. Findings of the 62nd annual meeting of the Association for Computational Linguistics (ACL-Findings), 2024.
- Aoran Gan, **Ye Liu**, Hongbo Gang, Kai Zhang, Qi Liu, Guoping Hu. Discover rather than Memorize: A Novel Benchmark for Relational Triple Extraction. ACL ARR 2024 June (Under Review).
- Xukai Liu, Kai Zhang\*, **Ye Liu**, Enhong Chen, Zhenya Huang, , Linan Yue, Jiaxian Yan. RHGH: Relation-gated Heterogeneous Graph Network for Entity Alignment in Knowledge Graphs. Findings of the 61st annual meeting of the Association for Computational Linguistics (ACL-Findings), 2023.
- Kehang Wang, Qi Liu\*, Kai Zhang, **Ye Liu**, Hanqin Tao, Zhenya Huang, Enhong Chen. Class-Dynamic and Hierarchy-Constrained Network for Entity Linking. The 28th International Conference on Database Systems for Advanced Applications (DASFAA), 2023.

### 3. Large Language Model:

- **Ye Liu**, Kai Zhang, Aoran Gan, Linan Yue, Feng Hu, Qi Liu, Enhong Chen. Empowering Few-Shot Relation Extraction with The Integration of Traditional RE Methods and Large Language Models. The 29th International Conference on Database Systems for Advanced Applications (DASFAA), 2024.
- **Ye Liu**, Jiajun Zhu, Kai Zhang, Haoyu Tang, Yanghai Zhang, Xukai Liu, Qi Liu, Enhong Chen. Detect, Investigate, Judge and Determine: A Novel LLM-based Framework for Few-shot Fake News Detection. ACL ARR 2024 June (Under Review).
- Xukai Liu, **Ye Liu**, Kai Zhang, Kehang Wang, Qi Liu, Enhong Chen. OneNet: A Fine-Tuning Free Framework for Few-Shot Entity Linking via Large Language Model Prompting. ACL ARR 2024 June (Under Review).
- Haoyu Tang, **Ye Liu**, Xukai Liu, Kai Zhang, Yanghai Zhang, Qi Liu, Enhong Chen. Learn while Unlearn: An Iterative Unlearning Framework for Generative Language Models. NeurIPS 2024 (Under Review).
- Linan Yue, Qi Liu, Yichao Du, Weibo Gao, **Ye Liu**, et al. FedJudge: Federated Legal Large Language Model. The 29th International Conference on Database Systems for Advanced Applications (DASFAA), 2024.

### 4. Other Domains:

- Linan Yue, Qi Liu, **Ye Liu**, Weibo Gao, et al. Cooperative Classification and Rationalization for Graph Generalization. The ACM Web Conference, 2024 (WWW), 2024.
- Linan Yue, Qi Liu, Weibo Gao, **Ye Liu**, Kai Zhang, Yichao Du, Li Wang, et al. Federated Self-Explaining GNNs with Anti-shortcut Augmentations. The 41st International Conference on Machine Learning (ICML), 2024.
- Huijie Liu, Han Wu, Le Zhang, Runlong Yu, **Ye Liu**, Chunli Liu, Minglei Li, Qi Liu, Enhong Chen. A Hierarchical Interactive Multi-channel Graph Neural Network for Technological Knowledge Flow Forecasting. Knowledge and Information Systems (KAIS), 2022.
- Huijie Liu, Han Wu, Le Zhang, Runlong Yu, **Ye Liu**, Chunli Liu, Qi Liu, Enhong Chen. Technological Knowledge Flow Forecasting through A Hierarchical Interactive Graph Neural Network. IEEE International Conference on Data Mining (ICDM), 2021.
- Yuting Ning, **Ye Liu**, Zhenya Huang, Haoyang Bi, Qi Liu, Enhong Chen\*, Dan Zhang. Stable and Diverse: A Unified Approach for Computerized Adaptive Testing. The 7th IEEE International Conference on Cloud Computing and Intelligence Systems (CCIS), 2021.
- Lili Zhao, Linan Yue, Yanqing An, **Ye Liu**, Kai Zhang, Weidong He, Yanmin Chen, Qi Liu\*. Legal Judgment Prediction with Multiple Perspectives on Civil Cases. The 1st CAAI International Conference on Artificial Intelligence (CICAI), 2021.