# 赵飞 (Fei Zhao)

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## 研究领域

多模态信息抽取、多模态大语言模型、上下文学习.

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## 实习经历

**2024.06–至今**
暑期实习
**小红书，社区搜索组**.
实习方向: 多模态 MRC

**2020.04–2020.11**
科研实习
**腾讯微信事业群，搜索应用部**.
实习方向: 微信搜一搜模块中的用户意图识别

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## 教育背景

**2021.09–现在**
博士
**南京大学，人工智能学院**.
科研导师: 戴新宇教授

**2018.09–2021.06**
硕士
**南京大学，计算机科学与技术系**.
排名: 中期考核优秀
科研导师: 戴新宇教授
毕设论文:《细粒度文本分类研究》

**2014.09–2018.06**
本科
**南京师范大学，计算机与电子信息学院/人工智能学院**.
排名: 1/54
毕设论文:《法律案例文档中的实体关系抽取实现研究》，校级优秀毕设

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## 论文发表

(* indicates equal contribution)

**Arxiv**
**AlignGPT: Multi-modal Large Language Models with Adaptive Alignment Capability**.
赵飞 *, 庞淘天 *, 李春晖, 吴震, 郭俊杰, 刑尚禹, 戴新宇

**Arxiv**
**Dynamic Demonstrations Controller for In-Context Learning**.
赵飞, 庞淘天, 吴震, 马征, 黄书剑，戴新宇
Under review

**EMNLP 2014**
**EFUF: Efficient Fine-grained Unlearning Framework for Mitigating Hallucinations in Multimodal Large Language Models**.
刑尚禹，赵飞, 吴震, 安妥, 陈伟豪, 李春晖，张建兵，戴新宇
Conference on Empirical Methods in Natural Language Processing (**EMNLP 2024**)

**ACL 2024**
**A Two-Agent Game for Zero-shot Relation Triplet Extraction**.
徐婷, 杨海钦, 赵飞, 吴震, 戴新宇
The 2023 Conference on Empirical Methods in Natural Language Processing. (**ACL Findings**)

**ACL 2024**  **MultiSQL: A Schema-Integrated Context-Dependent Text2SQL Dataset with Diverse SQL Operations**.
李春晖, 王一帆, 吴震, 俞震，赵飞, 黄书剑，戴新宇
The 2023 Conference on Empirical Methods in Natural Language Processing. (**ACL Findings**)

**EMNLP 2023**  **M2DF: Multi-grained Multi-curriculum Denoising Framework for Multimodal Aspect-based Sentiment Analysis**.
赵飞 *, 李春晖 *, 吴震, 欧阳亚文, 张建兵, 戴新宇
Conference on Empirical Methods in Natural Language Processing (**EMNLP 2023**)

**ACM MM 2023**  **DRIN: Dynamic Relation Interactive Network for Multimodal Entity Linking**.
刑尚禹 *, 赵飞 *, 吴震, 李春晖, 张建兵, 戴新宇
The 31th ACM International Conference on Multimedia. (**ACM MM 2023**)

**TASLP 2023**  **Label-correction Capsule Network for Hierarchical Text Classification**.
赵飞, 吴震, 何亮, 戴新宇
IEEE Transactions on Audio, Speech and Language Processing (**TASLP 2023**)

**ACL 2023**  **Measuring Your ASTE Models in The Wild: A Diversified Multi-domain Dataset For Aspect Sentiment Triplet Extraction**.
徐婷, 杨慧云, 吴震, 陈家哲, 赵飞, 戴新宇
The 61st Annual Meeting of the Association for Computational Linguistics (**ACL Findings**)

**EMNLP 2022**  **Label-Driven Denoising Framework for Multi-Label Few-Shot Aspect Category Detection**.
赵飞 *, 沈禹辰 *, 吴震, 戴新宇
Conference on Empirical Methods in Natural Language Processing (**EMNLP Findings**)

**COLING 2022**  **Learning from Adjective-Noun Pairs: A Knowledge-enhanced Framework for Target-Oriented Multimodal Sentiment Classification**.
赵飞, 吴震, 龙思宇, 戴新宇, 黄书剑, 陈家骏
The 29th International Conference on Computational Linguistics (**COLING 2022**)

**ACM MM 2022**  **Learning from Different text-image Pairs: A Relation-enhanced Graph Convolutional Network for Multimodal NER**.
赵飞, 李春晖, 吴震, 刑尚禹, 戴新宇
The 30th ACM International Conference on Multimedia. (**ACM MM 2022**)

**COLING 2020**  **Attention Transfer Network for Aspect-level Sentiment Classification**.
赵飞 *, 吴震 *, 戴新宇
The 28th International Conference on Computational Linguistics (**COLING 2020**)

**AAAI 2020**  **Latent Opinions Transfer Network for Target-Oriented Opinion Words Extraction**.
吴震 *, 赵飞 *, 戴新宇, 黄书剑, 陈家骏
Thirty-Fourth AAAI Conference on Artificial Intelligence (**AAAI 2020**)

**EMNLP 2020**  **Grid Tagging Scheme for Aspect-oriented Fine-grained Opinion Extraction**.
吴震, 应澄粲, 赵飞, 范志方, 戴新宇, 夏睿
Conference on Empirical Methods in Natural Language Processing (**EMNLP Findings**)

## 获奖情况

| | |
|---|---|
| 2017 | 国家奖学金 |
| 2018 | 南京师范大学优秀毕业生 |
| 2018 | 南京师范大学优秀毕业论文 |
| 2020 | 南京大学华为奖学金 |
| 2021 | 南京大学优秀毕业生 |
| 2022 | 南京大学华为奖学金 |
| 2023 | 南京大学英才奖学金一等奖 |

## 技术能力

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| 语言 | 英语 (CET-6) |
| 编程 | Tensorflow 和 PyTorch, 详情请见 Github |

## 学术服务

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|---|---|
| PC Member | ICLR 2025, NIPS 2024, AAAI 2021, AAAI 2022, AAAI 2023, AAAI 2024, EMNLP 2022, EMNLP 2023, ACL 2021, ACL 2023, ACL 2024, NAACL 2022, NAACL 2024, ACM MM 2023, ACL Rolling Review |

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## Research Interests

**Sentiment Analysis and Stylistic Analysis**.
**Multimodal Information Extraction and NLP Applications**.
**Multimodal Large Language Models**.

## Experiences

**2024.06–2024.11**
Research Intern

**Xiaohongshu, Community Search Group**.
Multimodal MRC.

**2020.04–2020.11**
Research Intern

**Tencent WeChat, Search Application Department**.
Query intention Classification in WeChat search module.

## Education

**2021.09–Present**
Ph.D.

**Nanjing University (NJU)**.
School of Artificial Intelligence.
Supervisor: Xinyu Dai.

**2018.09–2021.06**
M.Sc.

**Nanjing University (NJU)**.
Department of Computer Science and Technology.
Supervisor: Xinyu Dai.
Thesis: Fine-grained Text Classification.

**2014.09–2018.06**
B.Sc.

**Nanjing Normal University (NJNU)**.
School of Computer and Electronic Information/School of Artificial Intelligence.
Ranking: 1/54
Thesis: Research on the Relation Extraction in Legal Case Documents.

## Research Publications

(* indicates equal contribution)

Arxiv
**AlignGPT: Multi-modal Large Language Models with Adaptive Alignment Capability**.
Fei Zhao*, Taotian Pang*, Chunhui Li, Zhen Wu, Junjie Guo, Shangyu Xing, Xinyu Dai
*Under review*

Arxiv
**Dynamic Demonstrations Controller for In-Context Learning**.
Fei Zhao, Taotian Pang, Zhen Wu, Zheng Ma, Shujian Huang, Xinyu Dai
*Under review*

EMNLP 2024
**EFUF: Efficient Fine-grained Unlearning Framework for Mitigating Hallucinations in Multimodal Large Language Models**.
Shangyu Xing, Fei Zhao, Zhen Wu, Tuo An, Weihao Chen, Chunhui Li, Jianbing Zhang, Xinyu Dai
*The 2024 Conference on Empirical Methods in Natural Language Processing.* (**EMNLP 2024**)

ACL 2024
**A Two-Agent Game for Zero-shot Relation Triplet Extraction**.
Ting Xu, Haiqin Yang, Fei Zhao, Zhen Wu, and Xinyu Dai
*The 62nd Annual Meeting of the Association for Computational Linguistics.* (**ACL-2024 Findings**)

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| ACL 2024 | **MultiSQL: A Schema-Integrated Context-Dependent Text2SQL Dataset with Diverse SQL Operations**. <br> Chunhui Li, Yifan Wang, Zhen Wu, Zhen Yu, Fei Zhao, Shujian Huang, and Xinyu Dai <br> *The 62nd Annual Meeting of the Association for Computational Linguistics.* (**ACL-2024 Findings**) |
| EMNLP 2023 | **M2DF: Multi-grained Multi-curriculum Denoising Framework for Multimodal Aspect-based Sentiment Analysis**. <br> Fei Zhao*, Chunhui Li*, Zhen Wu, Yawen Ouyang, Jianbing Zhang and Xinyu Dai <br> *The 2023 Conference on Empirical Methods in Natural Language Processing.* (**EMNLP 2023**) |
| ACM MM 2023 | **DRIN: Dynamic Relation Interactive Network for Multimodal Entity Linking**. <br> Shangyu Xing*, Fei Zhao*, Zhen Wu, Chunhui li, Jianbing Zhang and Xinyu Dai <br> *The 31th ACM International Conference on Multimedia.* (**ACM MM 2023**) |
| TASLP 2023 | **Label-correction Capsule Network for Hierarchical Text Classification**. <br> Fei Zhao, Zhen Wu, Liang He, Xinyu Dai <br> *IEEE Transactions on Audio, Speech and Language Processing.* (**TASLP 2023**) |
| ACL 2023 | **Measuring Your ASTE Models in The Wild: A Diversified Multi-domain Dataset For Aspect Sentiment Triplet Extraction**. <br> Ting Xu, Huiyun Yang, Zhen Wu, Jiaze Chen, Fei Zhao and Xinyu Dai <br> The 61st Annual Meeting of the Association for Computational Linguistics (**ACL-2023 Findings**) |
| EMNLP 2022 | **Label-Driven Denoising Framework for Multi-Label Few-Shot Aspect Category Detection**. <br> Fei Zhao*, Yuchen Shen*, Zhen Wu, Xinyu Dai <br> *Findings of Empirical Methods in Natural Language Processing, 2022.* (**EMNLP-2022 Findings**) |
| COLING 2022 | **Learning from Adjective-Noun Pairs: A Knowledge-enhanced Framework for Target-Oriented Multimodal Sentiment Classification**. <br> Fei Zhao, Zhen Wu, Siyu Long, Xinyu Dai, Shujian Huang, Jiajun Chen <br> *The 29th International Conference on Computational Linguistics.* (**COLING 2022**) |
| ACM MM 2022 | **Learning from Different text-image Pairs: A Relation-enhanced Graph Convolutional Network for Multimodal NER**. <br> Fei Zhao, Chunhui li, Zhen Wu, Shangyu Xing, Xinyu Dai <br> *The 30th ACM International Conference on Multimedia.* (**ACM MM 2022**) |
| COLING 2020 | **Attention Transfer Network for Aspect-level Sentiment Classification**. <br> Fei Zhao*, Zhen Wu*, Xinyu Dai <br> *The 28th International Conference on Computational Linguistics.* (**COLING 2020**) |
| AAAI 2020 | **Latent Opinions Transfer Network for Target-Oriented Opinion Words Extraction**. <br> Zhen Wu*, Fei Zhao*, Xinyu Dai, Shujian Huang, Jiajun Chen <br> *Thirty-Fourth AAAI Conference on Artificial Intelligence.* (**AAAI 2020**) |
| EMNLP 2020 | **Grid Tagging Scheme for Aspect-oriented Fine-grained Opinion Extraction**. <br> Zhen Wu, Chengcan Ying, Fei Zhao, Xinyu Dai, Rui Xia <br> *Findings of Empirical Methods in Natural Language Processing, 2020.* (**EMNLP-2020 Findings**) |

## Awards

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|---|---|
| 2017 | National Scholarship |
| 2018 | *Outstanding Graduate* of Nanjing Normal University. |
| 2018 | *Outstanding Undergraduation Thesis* of Nanjing Normal University. |
| 2020 | Nanjing University Huawei Scholarship. |

| 2021 | *Outstanding Graduate* of Nanjing University. |
| 2022 | Nanjing University Huawei Scholarship. |
| 2023 | Nanjing University First-Class Yingcai Scholarship. |

## Computer Skills

| Programming | Tensorflow and PyTorch, please see Github for details |
| Lanauage | English (CET-6) |

## Academic Activities

| PC Member | ICLR 2025, NIPS 2024, AAAI 2021, AAAI 2022, AAAI 2023, AAAI 2024, EMNLP 2022, EMNLP 2023, ACL 2021, ACL 2023, ACL 2024, NAACL 2022, NAACL 2024, ACM MM 2023, ACL Rolling Review |