

Yusen Zhang

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RESEARCH INTERESTS	Scalable, efficient, trustworthy, Multi-Agent Large Language Model systems. Human-centric Large Language Model evaluation and applications.	
EDUCATION	<i>Ph.D. Computer Science and Engineering</i> Penn State University, State College, PA Advisor: Dr. Rui Zhang	Aug. 2021 - Present
	<i>M.Sc. Computer Science (Data Science Track)</i> Emory University, Atlanta, GA Advisor: Dr. Jinho D. Choi	Aug. 2019 - May. 2021
	<i>B.Sc. Computer Science and Technology</i> Beijing Institute of Technology, Beijing, China Thesis: Intent Classification Based on Pattern Engine Advisor: Dr. Zijia Lin (MSRA), Dr. Xinxiao Wu (BIT)	Sep. 2014 - Jun. 2018
RESEARCH EXPERIENCE	<i>Student Researcher</i> Google, Sunnyvale, CA Project: Multi-agent Large Language Models Advisor: Dr. Ruoxi Sun, Dr. Sercan Arik	Aug. 2023 - May 2024
	<i>Applied Scientist Intern</i> Amazon, New York, NY Project: Long Dialogue Summarization Advisor: Dr. Xiaofei Ma, Dr. Wei Xiao	Jun. 2022 - Aug. 2022
	<i>Research Intern</i> Microsoft, Redmond, WA Project: Controllable Summarization Advisor: Dr. Yang Liu	Feb. 2022 - Jun. 2022
	<i>Research Assistant</i> Yale University, New Haven, CT Project: Long Text Summarization Advisor: Dr. Dragomir R. Radev	Jan. 2021 - Dec. 2021
	<i>Research Intern</i> Microsoft Research Asia, Beijing, China Project: Intent Classification and Name Entity Recognition Advisor: Dr. Zijia Lin	Aug. 2017 - Jun. 2018

PUBLICATIONS & PREPRINTS * indicates equal contribution

- [P3]. **Yusen Zhang**, Sarkar Das, Rui Zhang. “Verbosity \neq Veracity: Verbosity Compensation Behavior of Large Language Models”. Preprint 2024.
- [P2]. Renze Lou, Hanzi Xu, Sijia Wang, Jiangshu Du, Ryo Kamoi, Xiaoxin Lu, Jian Xie, Yuxuan Sun, **Yusen Zhang**, Jihyun Janice Ahn, Hongchao Fang, Zhuoyang Zou, Wenchao Ma, Xi Li, Kai Zhang, Congying Xia, Lifu Huang, Wenpeng Yin. “AAAR-1.0: Assessing AI’s Potential to Assist Research”. Preprint 2024.
- [P1]. Xi Li, **Yusen Zhang**, Renze Lou, Chen Wu, Jiaqi Wang. “Chain-of-Scrutiny: Detecting Backdoor Attacks for Large Language Models”. Preprint 2024.
- [C14]. **Yusen Zhang**, Ruoxi Sun, Yanfei Chen, Tomas Pfister, Rui Zhang*, Sercan Ö. Arık*. “Chain of Agents: Large Language Models Collaborating on Long-Context Tasks”. NeurIPS 2024.
- [C13]. Ryo Kamoi, **Yusen Zhang**, Nan Zhang, Jiawei Han, Rui Zhang. “When Can LLMs Actually Correct Their Own Mistakes? A Critical Survey of Self-Correction of LLMs”. TACL 2024.
- [C12]. Ryo Kamoi, Sarkar Snigdha Sarathi Das, Renze Lou, Jihyun Janice Ahn, Yilun Zhao, Xiaoxin Lu, Nan Zhang, **Yusen Zhang**, Ranran Haoran Zhang, Sujeeth Reddy Vummanthala, Salika Dave, Shaobo Qin, Arman Cohan, Wenpeng Yin, Rui Zhang. “Evaluating LLMs at Detecting Errors in LLM Responses”. COLM 2024.
- [C11]. **Yusen Zhang**, Nan Zhang, Yixin Liu, Alexander Fabbri, Junru Liu, Ryo Kamoi, Xiaoxin Lu, Caiming Xiong, Jieyu Zhao, Dragomir Radev, Kathleen McKeown, Rui Zhang. “Fair Abstractive Summarization of Diverse Perspectives”. NAACL 2024.
- [C10]. Nan Zhang, **Yusen Zhang**, Wu Guo, Prasenjit Mitra, Rui Zhang. “FaMe-Summ: Investigating and Improving Faithfulness of Medical Summarization”. EMNLP 2023.
- [C9]. **Yusen Zhang**, Jun Wang, Zhiguo Wang, Rui Zhang. “XSemPLR: Benchmarking Cross-Lingual Semantic Parsing in Multiple Natural Languages and Meaning Representations”. ACL 2023.
- [C8]. **Yusen Zhang**, Yang Liu, Ziyi Yang, Yuwei Fang, Yulong Chen, Dragomir Radev, Chenguang Zhu, Michael Zeng, Rui Zhang. “MACSum: Controllable Summarization with Mixed Attributes”. TACL 2023.
- [C7]. **Yusen Zhang**, Ansong Ni, Ziming Mao, Chen Henry Wu, Chenguang Zhu, Budhaditya Deb, Ahmed Hassan Awadallah, Dragomir R. Radev, Rui Zhang. “Summ^N: A Multi-Stage Summarization Framework for Long Input Dialogues and Documents”. ACL 2022.
- [C6]. Ziming Mao*, Chen Henry Wu*, Ansong Ni, **Yusen Zhang**, Rui Zhang, Tao Yu, Budhaditya Deb, Chenguang Zhu, Ahmed Hassan Awadallah, Dragomir R. Radev. “DYLE: Dynamic Latent Extraction for Abstractive Long-Input Summarization”. ACL 2022.
- [C5]. Ansong Ni, Zhangir Azerbayev, Mutethia Mutuma, Troy Feng, **Yusen Zhang**, Tao Yu, Ahmed Hassan Awadallah, Dragomir Radev. “SummerTime: Text Summarization Toolkit for Non-experts”. EMNLP 2021 Demo Track.
- [C4]. **Yusen Zhang***, Ansong Ni*, Tao Yu, Rui Zhang, Chenguang Zhu, Budhaditya Deb, Asli Celikyilmaz, Ahmed Hassan Awadallah, Dragomir Radev. “An Exploratory Study on Long Dialogue Summarization: What Works and What’s Next”. EMNLP 2021 Findings.

- [C3]. Chang Shu*, **Yusen Zhang***, Xiangyu Dong, Peng Shi, Tao Yu, Rui Zhang. “Logic-Consistency Text Generation from Semantic Parses”. ACL 2021 Findings.
- [C2]. **Yusen Zhang***, Xiangyu Dong*, Shuaichen Chang, Tao Yu, Peng Shi, Rui Zhang. “Did You Ask a Good Question? A Cross-Domain Question Intention Classification Benchmark for Text-to-SQL”. Intex-Sempar @ EMNLP 2020.
- [C1]. Hui Chen, Zijia Lin, Guiguang Ding, Jianguang Lou, **Yusen Zhang**, Borje Karlsson. “GRN: Gated Relation Network to Enhance Convolutional Neural Network for Named Entity Recognition”. AAAI 2019

HONORS AND AWARDS	Dr. Tse-Yun Feng Graduate Student Award, CSE Dept., Penn State University 2022
	The 28 th place (19 teams to Final), ACM-ICPC North America Champions 2020
	The 3 rd place, ACM-ICPC Southeast American Regional Contest 2019
	“Star of Tomorrow” Excellence Award, Microsoft Research Asia 2018
	Science and Technology Award, Beijing Institute of Technology (19/3000) 2018

SERVICES	Review committee, EMNLP 2022,2023,2024, ACL 2023, CoNLL 2023,2024, Neurips 2024, Reviewer, ACL Rolling Review Nov. 2021
	Program Committee of InTex-SemPar @ EMNLP 2020
	Student Volunteer @ NAACL 2024

TALKS AND PRESENTATIONS	“MACSum: Controllable Summarization with Mixed Attributes”. Invited talk and poster, MASC-SLL. 2023 Apr. 2023.
	Invited talk. “MACSum: Controllable Summarization with Mixed Attributes”. Westlake University NLP Group. Feb. 2023.

PROFESSIONAL REFERENCE	Rui Zhang, Ph.D. Assistant Professor, Computer Science and Engineering Department, Penn State University. Address: W329 Westgate Building, University Park, PA 16802 Email: r.zhang@psu.edu Relationship: Ph.D. Advisor
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