

## Yusen Zhang

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W363 Westgate Building  
State College, PA, 16802  
+1 (404)-823-7578  
yfs5488@psu.edu  
[www.yuszh.com](http://www.yuszh.com)

### RESEARCH INTERESTS

Scalable, efficient, trustworthy, Multi-Agent Large Language Model systems. Human-centric Large Language Model evaluation and applications.

### EDUCATION

*Ph.D. Computer Science and Engineering* Aug. 2021 - Present  
**Penn State University, State College, PA**  
Advisor: Dr. Rui Zhang

*M.Sc. Computer Science (Data Science Track)* Aug. 2019 - May. 2021  
**Emory University, Atlanta, GA**  
Advisor: Dr. Jinho D. Choi

*B.Sc. Computer Science and Technology* Sep. 2014 - Jun. 2018  
**Beijing Institute of Technology, Beijing, China**  
Thesis: Intent Classification Based on Pattern Engine  
Advisor: Dr. Zijia Lin (MSRA), Dr. Xinxiao Wu (BIT)

### RESEARCH EXPERIENCE

*Student Researcher* Aug. 2023 - May 2024  
Google, Sunnyvale, CA  
Project: Multi-agent Large Language Models  
Advisor: Dr. Ruoxi Sun, Dr. Sercan Arik

*Applied Scientist Intern* Jun. 2022 - Aug. 2022  
Amazon, New York, NY  
Project: Long Dialogue Summarization  
Advisor: Dr. Xiaofei Ma, Dr. Wei Xiao

*Research Intern* Feb. 2022 - Jun. 2022  
Microsoft, Redmond, WA  
Project: Controllable Summarization  
Advisor: Dr. Yang Liu

*Research Assistant* Jan. 2021 - Dec. 2021  
Yale University, New Haven, CT  
Project: Long Text Summarization  
Advisor: Dr. Dragomir R. Radev

*Research Intern* Aug. 2017 - Jun. 2018  
Microsoft Research Asia, Beijing, China  
Project: Intent Classification and Name Entity Recognition  
Advisor: Dr. Zijia Lin

**PUBLICATIONS** \* indicates equal contribution  
**& PREPRINTS**

- [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. Arik\*. “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<sup>N</sup>: 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<sup>th</sup> place (19 teams to Final), ACM-ICPC North America Champions 2020  
 The 3<sup>rd</sup> 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