Yusen Zhang

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RESEARCH INTERESTS

Natural language generation. Interactive, high-fidelity semantic parsing. Long, controllable document and dialogue summarization. Language generation evaluation.

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. Xinxiao Wu

RESEARCH EXPERIENCE

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 [C8]
Advisor: Dr. Yang Liu

Research Assistant   Jan. 2021 - Dec. 2021
Yale University, New Haven, CT
Project: Long Text Summarization [C4, C5, C6, C7]
Advisor: Dr. Dragomir R. Radev

Research Intern   Aug. 2017 - Jun. 2018
Microsoft Research Asia, Beijing, China
Project: Intent Classification and Name Entity Recognition [C1]
Advisor: Dr. Zijia Lin

PUBLICATIONS * indicates equal contribution

[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 28th place (19 teams to Final), ACM-ICPC North America Champions   2020
The 3rd 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, ACL 2023, EMNLP 2023, CoNLL 2023
Reviewer, ACL Rolling Review Nov. 2021
Program Committee of InTex-SemPar @ EMNLP 2020

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.
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Computer Science and Engineering Department,
Penn State University.
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Relationship: Ph.D. Advisor