

Wenhao Yu

CONTACTS	E-mail: wenhaoyu97@gmail.com	Websites: (1) Homepage (2) Google Scholar
WORKING EXPERIENCE	Tencent AI Lab, Seattle, Washington, US Senior Research Scientist in NLP	Aug. 2023 – Now
EDUCATION EXPERIENCE	University of Notre Dame, IN, US Ph.D. in Computer Science and Engineering <ul style="list-style-type: none">• Advisor: Dr. Meng Jiang http://www.meng-jiang.com/• Committee members: Dr. Heng Ji (UIUC), Dr. Scott Wen-tau Yih (FAIR), Sichuan University, Chengdu, China B.S. in Computer Science and Technology <ul style="list-style-type: none">• Graduated with honors	Aug. 2019 – Jul. 2023 GPA: 3.95/4.0 Aug. 2015 – Jul. 2019 GPA: 3.84/4.0
RESEARCH INTERESTS	I am interested in Language Model + Knowledge (i.e., knowledge-enhanced methods) for solving various real-world applications, such as open-domain question answering, commonsense reasoning and natural language generation. Recently, I also worked on prompting and training stronger large language models (in AI2).	
INDUSTRY EXPERIENCE	Research Intern at Allen Institute of AI (AI2), Seattle, Washington, US <i>Worked with Drs. Ashish Sabharwal and Peter Clark</i>	Sept. 2022 - May 2023
	Visiting Student Researcher at Microsoft Research, Redmond, Washington, US <i>Worked with Drs. Chenguang Zhu and Michael Zeng</i>	Sept. 2021 - Sept. 2022
	Research Intern at Microsoft Research, Redmond, Washington, US <i>Worked with Drs. Chenguang Zhu and Michael Zeng</i>	June 2021 - Sept. 2021
HONORS AND AWARDS	Bloomberg Ph.D. Fellowship Best Paper Award at SoCalNLP NAACL 2022 Travel Award Notre Dame Outstanding Student Fellowship National Scholarship of China	2022 2022 2022 2019 2018
WORKSHOP ORGANIZATION	[W1] Chenguang Zhu, Shuohang Wang, Meng Jiang Wenhao Yu , Lu Wang, Huan Sun. “The First Workshop on Knowledge Augmented Methods for Natural Language Processing”, in AAAI 2023. [Website] [Blog] [Twitter] <ul style="list-style-type: none">• With more than 70 people (virtual & in-person) attending the workshop	
CONFERENCE TUTORIAL	[T2] Chenguang Zhu, Yichong Xu, Xiang Ren, Yuchen Lin, Meng Jiang, Wenhao Yu . “Knowledge-Augmented Methods for Natural Language Processing”, in ACL 2022. <ul style="list-style-type: none">• With more than 200 people (virtual & in-person) attending the tutorial• With more than 200 people following our Github repository [Link] [T1] Wenhao Yu , Meng Jiang, Zhiting Hu, Qingyun Wang, Heng Ji, Nazneen Fatema Rajani. “Knowledge-Enriched Natural Language Generation”, in EMNLP 2021. <ul style="list-style-type: none">• With more than 120 people (virtual & in-person) attending the tutorial• With more than 500 people following our Github repository [Link]	
PEER-REVIEWED PUBLICATIONS	[P14] [Language Model + Open-domain QA] Zhihan Zhang, Wenhao Yu , Zheng Ning, Mingxuan Ju, Meng Jiang. “Exploring Contrast Consistency of Open-Domain Question Answering Systems on Minimally Edited Questions”, in TACL 2023.	
	[P13] [Large Language Model + Open-domain QA] Noah Ziemis, Wenhao Yu , Zhihan Zhang, Meng Jiang. “Large Language Models are Built-in Autoregressive Search Engines”, in ACL 2023.	
	[P12] [Large Language Model + Open-domain QA] Wenhao Yu , Dan Iter, Shuohang Wang, Yichong Xu, Mingxuan Ju, Soumya Sanyal, Chenguang Zhu, Michael Zeng, Meng Jiang. “Generate rather than Retrieve: Large Language Models are Strong Context Generators”, in ICLR 2023.	

- [P11] [Document Retrieval, Commonsense QA] **Wenhao Yu**, Chenguang Zhu, Zhihan Zhang, Shuohang Wang, Zhuosheng Zhang, Meng Jiang. "Retrieval Augmentation for Commonsense Reasoning: A Unified Approach", in EMNLP 2022.
- [P10] [Document Retrieval, Knowledge Graph] **Wenhao Yu**, Mingxuan Ju (equal contribution), Tong Zhao, Chuxu Zhang, Yanfang Ye. "Knowledge Graph Enhanced Passage Reader for Open-domain Question Answering", in EMNLP 2022.
- [P9] [Entity Memory, Open-domain QA] Zhihan Zhang, **Wenhao Yu**, Chenguang Zhu, Meng Jiang. "A Unified Encoder-Decoder Framework with Entity Memory", in EMNLP 2022. (selected as oral presentation, 166 out of 1392 accepted papers)
- [P8] [Document Retrieval + Knowledge Graph] Ziniu Hu, Yichong Xu, **Wenhao Yu**, Shuohang Wang, Ziyi Yang, Chenguang Zhu, Kai-Wei Chiang, Yizhou Sun. "Empowering Language Models with Knowledge Graph Reasoning for Open-Domain Question Answering", in EMNLP 2022.
- [P7] [Multi-task Learning] Zhuosheng Zhang, Shuohang Wang, Yichong Xu, Yuwei Fang, **Wenhao Yu**, Yang Liu, Hai Zhao, Chenguang Zhu, Michael Zeng. "Task Compass: Scaling Multi-task Pre-training with Task Prefix", in EMNLP 2022.
- [P6] [Language Model Pre-training + English Dictionary] **Wenhao Yu**, Chenguang Zhu, Yuwei Fang, Donghan Yu, Shuohang Wang, Yichong Xu, Meng Jiang. "Dict-BERT: Enhancing Language Model Pre-training with Dictionary", in ACL 2022.
- [P5] [Document Retrieval + Knowledge graph] Donghan Yu, Chenguang Zhu, Yuwei Fang, **Wenhao Yu**, Shuohang Wang, Yichong Xu, Xiang Ren, Yiming Yang, Michael Zeng. "KG-FiD: Infusing Knowledge Graph in Fusion-in-Decoder for Open-Domain Question Answering", in ACL 2022.
- [P4] [Survey, Knowledge Graph, Text Retrieval] **Wenhao Yu**, Chenguang Zhu, Zaitang Li, Zhiting Hu, Qingyun Wang, Heng Ji, Meng Jiang. "A Survey of Knowledge-Enhanced Text Generation", in ACM Computing Survey 2022 (CSUR, [IF:10.28](#)).
- [P3] [Language Generation, Entity Knowledge] Xiangyu Dong, **Wenhao Yu**, Chenguang Zhu, Meng Jiang. "Injecting Entity Types into Entity-Guided Text Generation", in EMNLP 2021 (selected as oral presentation).
- [P2] [Document Retrieval, Transfer Learning] **Wenhao Yu**, Lingfei Wu, Yu Deng, Qingkai Zeng, Ruchi Mahindru, Sinem Guven, Meng Jiang. "Technical Question Answering across Tasks and Domains", in NAACL 2021.
- [P1] [Joint Retrieval and Generation] **Wenhao Yu**, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng, Meng Jiang. "Crossing Variational Autoencoders for Answer Retrieval", in ACL 2020 (selected as oral presentation).

PH.D THESIS	Wenhao Yu . “Retrieval-augmented Generation across Heterogeneous Knowledge”, accepted to NAACL Ph.D thesis proposal track 2022.				
MENTORED STUDENTS	Tong Chen , Tectent AI intern, Ph.D student at the University of Washington Zhihan Zhang , on [P9], now Ph.D student at the University of Notre Dame Zaitang Li , on [P4], now Ph.D student at the Chinese University of Hong Kong Xiangyu Dong , on [P3], now software engineer at the Bloomberg LP				
PROFESSIONAL SERVICES	Conference Reviewer and Journal Invited Reviewer: <div><div>• ICLR</div><div>• ACL</div><div>• ICML</div><div>• EMNLP</div><div>• Neurips</div><div>• NAACL</div><div>• AAAI</div><div>• CSUR</div><div>• IJCAI</div><div>• TACL</div></div>				