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# YUE YU

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## EDUCATION

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School of Computational Science and Engineering, Georgia Institute of Technology  
Ph.D. in Computational Science and Engineering

Atlanta, GA, USA  
Aug. 2019 - Dec. 2024 (Expected)

- Ph.D. Advisor: [Dr. Chao Zhang](#);
- **Research Interest:** Augmented Language Models, Data-centric AI.
- **Core Courses:** Computational Data Analysis, Mathematical Foundation of Machine Learning, Algorithms, Convex Optimization, Modeling and Simulation, Deep Learning for Text Data.
- **Thesis Topic:** Towards Efficiently and Effectively Harnessing Large Pre-trained Models via Data-centric Lens.

Department of Electronic Engineering, Tsinghua University  
B.Eng. in Electronic Engineering

Beijing, China  
Aug. 2015 - July 2019

- Research Assistant in the Future Internet & Communication Lab advised by [Dr. Yong Li](#);

## INDUSTRY EXPERIENCE

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Llama Team, Meta GenAI

Research Intern, Host: Rui Hou, Manager: Melanie Kamdudur

Bellevue, WA, USA  
May - Aug. 2024

Applied Deep Learning Research Team, NVIDIA

Research Intern, Host: Wei Ping, Manager: Mohammad Shoeybi

Santa Clara, CA, USA (Remote)  
Jan. 2024 - May 2024

**Topic:** Retrieval-augmented Instruction Finetuning for Large Language Models.

**Publication:** One paper under review.

News Understanding Team, Google Research (Now Google Deepmind)

Research Intern, Host: Jiaming Shen, Co-host: Tianqi Liu, Zhen Qin, Manager: Jialu Liu

New York City, NY, USA  
May 2023 - Aug. 2023

**Topic:** Empowering Large Language Model In-context Learning with Free-text Rationales.

**Publication:** One conference paper in [ACL 2024](#).

Productivity and Intelligence Group, Microsoft Research

Research Intern, Mentor: Chenyan Xiong, Manager: Arnold Overwijk

Redmond, WA, USA  
May 2021 - Aug. 2021

**Topic:** Zero-shot Learning for Generalizable Dense Text Retrieval.

**Publication:** One conference paper in [EMNLP 2022](#).

Analytics Center of Excellence, IQVIA

Machine Learning Research Intern, Mentor: Cao (Danica) Xiao

Boston, MA, USA  
May 2020 - Aug. 2020

**Topic:** Multi-typed Drug Interaction Prediction via Knowledge Graph Summarization.

**Publication:** One journal paper in [Bioinformatics 2021](#).

## SELECTED PUBLICATIONS

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(The full publication list can be found in [this link](#), \* stands for equal contribution):

1. **Yue Yu**, Wei Ping, Zihan Liu, Boxin Wang, Jiaxuan You, Chao Zhang, Mohammad Shoeybi, and Bryan Catanzaro. “[RankRAG: Unifying Context Ranking with Retrieval-Augmented Generation in LLMs](#)”. In *arXiv*, 2024.
2. **Yue Yu**, Jiaming Shen, Tianqi Liu, Zhen Qin, Jing Nathan Yan, Jialu Liu, Chao Zhang, Michael Bendersky. “[Explanation-aware Soft Ensemble Empowers Large Language Model In-context Learning](#)”. In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2024.
3. **Yue Yu\***, Yuchen Zhuang\*, Jieyu Zhang\*, Yu Meng, Alexander Ratner, Ranjay Krishna, Jiaming Shen, Chao Zhang. “[Large Language Model as Attributed Training Data Generator: A Tale of Diversity and Bias](#)”. In *Proceedings of the Thirty-seventh Conference on Neural Information Processing Systems Datasets and Benchmarks (NeurIPS)*, 2023.
4. Yuchen Zhuang\*, **Yue Yu\***, Kuan Wang\*, Haotian Sun, Chao Zhang. “[ToolQA: A Dataset for LLM Question Answering with External Tools](#)”. In *Proceedings of the Thirty-seventh Conference on Neural Information Processing Systems Datasets and Benchmarks (NeurIPS)*, 2023.

5. **Yue Yu**, Rongzhi Zhang, Ran Xu, Jieyu Zhang, Jiaming Shen and Chao Zhang. “Cold-Start Data Selection for Few-shot Language Model Fine-tuning: A Prompt-Based Uncertainty Propagation Approach.” In *Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics (ACL)*, 2023.
6. **Yue Yu**, Chenyan Xiong, Si Sun, Chao Zhang, and Arnold Overwijk. “COCO-DR: Combating the Distribution Shift in Zero-Shot Dense Retrieval with Contrastive and Distributionally Robust Learning.” In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
7. **Yue Yu**, Ling kai Kong, Jieyu Zhang, Rongzhi Zhang, and Chao Zhang. “AcTune: Uncertainty-Based Active Self-Training for Active Fine-Tuning of Pretrained Language Models.” In *Proceedings of the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2022.
8. **Yue Yu\***, Simiao Zuo\*, Haoming Jiang, Wendi Ren, Tuo Zhao and Chao Zhang, “Fine-Tuning Pre-trained Language Model with Weak Supervision: A Contrastive-Regularized Self-Training Approach”, In *Proceedings of the 2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2021.
9. **Yue Yu**, Yinghao Li, Jiaming Shen, Hao Feng, Jimeng Sun and Chao Zhang, “STEAM: Self-Supervised Taxonomy Expansion via Path-Based Multi-View Co-Training”, In *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2020.
10. Chen Liang\*, **Yue Yu\***, Haoming Jiang\*, Siawpeng Er, Ruijia Wang, Tuo Zhao and Chao Zhang, “BOND: Bert-Assisted Open-Domain Named Entity Recognition with Distant Supervision”, In *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2020.

## HONORS AND AWARDS

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|---|----------------------|
| • Best Paper Award at Machine Learning for Health 2022  | Nov. 2022            |
| • ACM SIGKDD Student Registration Award   | Aug. 2020            |
| • Excellent Graduate, Tsinghua University & Beijing City (Top 2% over 3292 graduate students) | July 2019            |
| • Comprehensive Scholarship, Tsinghua University (Top 1%)                                     | Oct. 2018            |
| • Award from Tsinghua University Initiative Scientific Research Program (5000 USD)            | May 2018             |
| • Comprehensive Scholarship, Tsinghua University (Top 5%)                                     | Oct. 2016, Oct. 2017 |

## PROFESSIONAL SKILLS

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- Programming language: C++, Python, MATLAB, Latex.
- Deep learning frameworks: Keras, Pytorch.

## SERVICES

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- **Teaching Experience:** TA for CX4240: Introduction to Computational Data Analysis. Spring 2020, 2021, 2024
- **Area Chair:** ACL 2024, EMNLP 2024.
- **Conference Program Committee:** NeurIPS 2022/2023/2024; ICML 2022/2024; ICLR 2024; ACL 2023; KDD 2023; IJCAI 2023; EMNLP 2022/2023.