Xi Ye

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EDUCATION

The University of Texas at Austin

Ph.D. in Computer Science, May 2024 (expected)
Advisor: Greg Durrett
Dissertation Committee: Greg Durrett, Ray Mooney, Eunsol Choi, Jonathan Berant

Tsinghua University

B.Eng. in Software Engineering, June 2018
Advisor: Shixia Liu

PUBLICATIONS

(*: equal contribution, †: research mentee)

Xi Ye, Qiaochu Chen, Isil Dillig, and Greg Durrett. 2023. Satisfiability-Aided Language Models Using Declarative Prompting. *Proceedings of the 37th Conference on Advances in Neural Information Processing Systems (NeurIPS).*

Xi Ye and Greg Durrett. 2023. Explanation Selection Using Unlabeled Data for Chain-of-Thought Prompting. *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP).*

Xi Ye, Srini Iyer, Asli Celikyilmaz, Ves Stoyanov, Greg Durrett, and Ramakanth Pasunuru. 2023. Complementary Explanations for Effective In-Context Learning. *Findings of the 61th Annual Meeting of the Association for Computational Linguistics (Findings of ACL).*

Prasann Singhal†, Jiacheng Xu, **Xi Ye**, and and Greg Durrett. 2023. EEL: Efficiently Encoding Lattices for Reranking. *Procedings of the 61th Annual Meeting of the Association for Computational Linguistics (ACL).*

Prasann Singhal*†, Jarad Forristal*†, **Xi Ye**, and Greg Durrett. 2023. Assessing Out-of-Domain Language Model Performance from Few Examples. *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL).*

Xi Ye and Greg Durrett. 2022. The (Un)reliability of Explanations in Few-shot Prompting for Textual Reasoning. *Proceedings of the 36th Conference on Advances in Neural Information Processing Systems (NeurIPS).*

Xi Ye and Greg Durrett. 2022. Can Explanations Be Useful for Calibrating Black Box Models?. *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL).*

Xi Ye, Semih Yavuz, Kazuma Hashimoto, Yingbo Zhou, and Caiming Xiong. 2022. RnG-KBQA: Generation Augmented Iterative Ranking for Knowledge Base Question Answering. *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL).*

Weikai Yang, **Xi Ye**, Xingxing Zhang, Lanxi Xiao, Jiazhi Xia, Zhongyuan Wang, Jun Zhu, Hanspeter Pfister, and Shixia Liu. 2022. Diagnosing Ensemble Few-Shot Classifiers. *IEEE Transactions on Visualization and Computer Graphics (TVCG).*

Xi Ye, Rohan Nair[†], and Greg Durrett. 2021. Connecting Attributions and QA Model Behavior on Realistic Counterfactuals. *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP).*

Xi Ye, Qiaochu Chen, Isil Dillig, and Greg Durrett. 2021. Optimal Neural Program Synthesis from Multimodal Specifications. *Findings of the 2021 Conference on Empirical Methods for Natural Language Processing (Findings of EMNLP).*

Xi Ye, Qiaochu Chen, Isil Dillig, and Greg Durrett. 2020. Benchmarking Multimodal Regex Synthesis with Complex Structures. *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL).*

Xi Ye, Qiaochu Chen, Xinyu Wang, Isil Dillig, and Greg Durrett. 2020. Sketch-Driven Regular Expression Generation from Natural Language and Examples. *Transactions of the Association for Computational Linguistics (TACL).*

Qiaochu Chen, Xinyu Wang, **Xi Ye**, Greg Durrett, and Isil Dillig. 2020. Multi-Modal Synthesis of Regular Expressions. *Proceedings of the 43rd ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI).*

Shouxing Xiang*, **Xi Ye***, Jiazhi Xia, Jing Wu, Yang Chen, and Shixia Liu. 2019. Interactive Correction of Mislabeled Training Data. *Proceedings of the 2019 IEEE Conference on Visual Analytics Science and Technology (VAST).*

PREPRINTS   Zayne Sprague[†], **Xi Ye**, Kaj Bostrom, Swarat Chaudhuri, and Greg Durrett. 2023. *MUSR: Testing the Limits of Chain-of-Thought with Multistep Soft Reasoning.* ArXiv Preprint.

Yoonsang Lee*[†], Pranav Atreya*[†], **Xi Ye**, and Eunsol Choi. 2023. *Crafting In-context Examples according to LMs' Parametric Knowledge.* ArXiv Preprint.

RESEARCH   **The University of Texas at Austin**
EXPERIENCE   Research Assistant at TAUR Lab   Aug. 2018 - present
                  Advisor: Greg Durrett

                  Google
                  Research Intern at Cloud AI Research   May 2023 - Aug. 2023
                  Mentor: Sercan Arik, Ruoxi Sun

                  Meta
                  Research Intern at Meta AI Research   June 2022 - Aug. 2022
                  Mentor: Ramakanth Pasunuru

                  Salesforce
                  Research Intern at Salesforce Research   June 2021 - Aug. 2021
                  Mentor: Semih Yavuz

                  Tsinghua University
                  Research Assistant at THUVis Lab   Aug. 2017 - June 2018

Advisor: Shixia Liu

The University of Texas at Austin
Visiting Student Researcher at CVC Lab   June 2017 - Sep. 2017
Advisor: Qixing Huang

PROFESSIONAL   **Workshop co-organizer** (one of six): 2nd Workshop Natural Language Reasoning
SERVICE   and Structured Explanations at ACL 2024 (to appear)
                Tutorial speaker (one of seven): Tutorial on Explanation in the Era of Large Lan-
                guage Models at NAACL 2024 (to appear)

                Conference PC member (reviewer):
                ACL Rolling Review 2023, 2022; ACL 2023, 2022; EMNLP 2023, 2022; NAACL 2022;
                NeurIPS **2023 (top reviewers)**, 2022; ICML 2023; ICLR 2023; CONLL 2021, 2020
                Workshop PC member (reviewer):
                NLRSE 2023; TL4NLP 2022; SUKI 2022; NLP4Prog 2021

RESEARCH TALKS *Steering Textual Reasoning with Explanations*
                CHAI Group, University of Chicago   Nov. 2023
                Yale NLP Lab, Yale University   Oct. 2023

                Effective Use of Explanations in Prompting
                Student Reading Group, University of Maryland   Mar. 2023
                Meetup of MLNLP Community, Virtual   Mar. 2023
                DM2Lab, University of Notre Dame   Mar. 2023

                The Unreliability of Explanations in Few-shot Prompting for Textual Reasoning
                AI4LIFE group, Harvard University   Nov. 2022
                NeuLab, Carnegie Mellon University   July 2022

                Can Explanations Be Useful for Calibrating Black Box Models?
                60th Annual Meeting of the Association for Computational Linguistics   May 2022

                *RnG-KBQA: Generation Augmented Iterative Ranking for Knowledge Base Question
                Answering*
                60th Annual Meeting of the Association for Computational Linguistics   May 2022

                Sketch-Driven Regular Expression Generation from Natural Language and Examples
                2020 Conference on Empirical Methods for Natural Language Processing   Nov. 2020

                Interactive Correction of Mislabeled Training Data
                2019 IEEE Conference on Visual Analytics Science and Technology   Oct. 2019

TEACHING   **CS378: Natural Language Processing (undergraduate)**
EXPERIENCE   Teaching Assistant, UT Austin, Fall 2022

                CS388: Natural Language Processing (graduate)
                Teaching Assistant, UT Austin, Spring 2021

                CS429: Computer Architecture and Organization (undergraduate)
                Teaching Assistant, UT Austin, Spring 2019
                Teaching Assistant, UT Austin, Fall 2018

DEPARTMENTAL SERVICE	**PhD Admissions**
	Application Reader, UT Austin, 2022 cycle
	Master Admissions
	Application Reader, UT Austin, 2021 cycle
	Application Reader, UT Austin, 2020 cycle

MENTORING EXPERIENCE	Shrey Pandit (M.S. 2025)	Oct. 2023 - present
	Yoonsang Lee (B.S. 2024, visiting student)	Aug. 2023 - Nov. 2023
	Pranav Atreya (B.S. 2023)	Dec. 2022 - Nov. 2023
	Zayne Sprague (M.S. 2023)	June 2023 - Oct. 2023
	Prasann Singhal (B.S. 2025)	Sep. 2021 - Dec. 2022
	Jarad M. Forristal (B.S. 2023)	Sep. 2021 - June 2022
	Rohan Nair (B.S. 2021)	Sep. 2020 - May 2021

REFERENCES

Greg Durrett (advisor)
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