Xiaotian Ye

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Education

B.Eng. in Computer Science *Sep 2022 - Jun 2026*

Beijing University of Posts and Telecommunications

- **Overall GPA**: 92.32/100, 3.83/4.00
- **Activities and societies**: Member of ICPC Programming Team *(Gold medal in BUPT Campus Programming Contest for Freshmen, which is the team formation contest)*.
- **Coursework:** Foundation of Programming (98), Design and Analysis of Algorithms (98), Data Structures (97), Python Programming (99), Matrix Theory (99), Computer Systems (95), Formal Languages and Automata (96), Big Data Technology (97), Machine Learning (95), Operating Systems (94), etc.

Publications & Manuscripts

- *Asterisk mark (*) denotes equal contribution as co-first author.*

Research Highlights

[c1] **LLM Unlearning Should Be Form-Independent**
Xiaotian Ye, Mengqi Zhang, Shu Wu
Preprint, in submission to S&P 2026

[c2] **Uncovering Overfitting in Large Language Model Editing**
Mengqi Zhang*, Xiaotian Ye*, Qiang Liu, Pengjie Ren, Shu Wu, Zhumin Chen
ICLR 2025 Spotlight

[c3] **Knowledge Graph Enhanced Large Language Model Editing**
Mengqi Zhang*, Xiaotian Ye*, Qiang Liu, Pengjie Ren, Shu Wu, Zhumin Chen
EMNLP 2024

Other Publications & Preprints

[c1] **UIPE: Enhancing LLM Unlearning by Removing Knowledge Related to Forgetting Targets**
Wenyu wang*, Mengqi Zhang*, Xiaotian Ye, Zhaochun Ren, Zhumin Chen, Pengjie Ren
EMNLP 2025 Findings

[c2] **KELE: Residual Knowledge Erasure for Enhanced Multi-hop Reasoning in Knowledge Editing**
Mengqi Zhang*, Bowen Fang*, Qiang Liu, Xiaotian Ye, Shu Wu, Pengjie Ren, Zhumin Chen et al.
EMNLP 2025 Findings

[c3] **Disentangling Knowledge Representations for Large Language Model Editing**
Mengqi Zhang*, Zisheng Zhou*, Xiaotian Ye, Zhaochun Ren, Zhumin Chen, Pengjie Ren
Preprint, in submission to NeurIPS 2025

[c4] **Open Problems and a Hypothetical Path Forward in LLM Knowledge Paradigms**
Xiaotian Ye, Mengqi Zhang, Shu Wu
Preprint, in submission

Internship / Research Experience

Research Intern *Jun 2023 – Present*

Institute of Automation, Chinese Academy of Sciences *Beijing, China*

◊ Work at NLPR & MAIS (State Key Lab of Multimodal AI Systems), where I am supervised by Prof. Shu Wu and work with Prof. Mengqi Zhang.

◊ Research focused on *knowledge representation learning* & *content safety* in Large Language Models, with specific emphasis on knowledge editing and LLM unlearning techniques.

◊ **Project 1: Knowledge Editing of LLMs.** Actively engaged in the full research cycle from literature survey to post-rebuttal paper finalization, served as primary contributor for two works. (1) Proposed knowledge graph enhanced editing framework, accepted at EMNLP 2024; and (2) first identified and analyzed overfitting phenomena in model editing, accepted as spotlight paper at ICLR 2025 (co-first & first student author). Leading a project on multi-modal knowledge editing, planned for submission to ICLR 2026. Collaborated on three additional projects, currently under review at NeurIPS / accepted to EMNLP 2025 Findings.

◊ **Project 2: Machine Unlearning in Language Models.** Led a critical analysis of existing unlearning paradigms as first author, revealing limitations in current approaches, the resulting paper is submitted to IEEE S&P (top1 in the "BIG4" security conferences) received high scores. Additionally contributed to the development of parameter extrapolation based unlearning framework, accepted to EMNLP 2025 as Findings.

◊ **Project 3: Interpretability Analysis of LLM Knowledge Representation.** Leading a project about LLM knowledge recall mechanisms through interpretability analysis of representations, thereby demonstrating the reasons for the poor performance of current knowledge editing methods. Planned for submission to ICLR 2026 as first author.

Selected Awards & Honors

- **CCF Elite Collegiate Award,** *selects 100 recipients annually from 30 top-tier universities, with each nominating up to 4 candidates* *Sep 2025*
- International Silver Medal, *ICPC, Asia Regional Contest* *Dec 2023*
- National Silver Medal, *China Collegiate Programming Contest* *Oct 2023*
- National First Prize, *National English Competition for College Students, Final* *Jun 2023*
- National Individual Third Prize, *CCCC-GPLT, National Final* *May 2023*
- Merit Student, *Beijing University of Posts and Telecommunications* *Oct 2023*

Skills

- **Programming** Especially experienced in Python, C++ and C; comfortable with JavaScript, Java. Experienced in programming under Unix-like environments including linux. Experienced and interested in Competitive Programming.
- **Machine Learning** Experienced in PyTorch, Scikit-Learn and NumPy; Have a good knowledge of theories and methods about machine learning and LLMs, especially in the field of LLM knowledge and interpretability, and understand common and important concepts in other domains as well.
- **English Proficiency** TOEFL 106 (R 29, L 28, S 23, W 26). Proficient in academic reading and writing.