Jingheng Ye

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━━ EDUCATION ━━

Northeastern University Boston, MA
PhD Student in Computer Engineering (Prof. Weiyan Shi) Sep 2025 – Present

- **Research Focus**: LLM Agents, AI Safety, Coding Agent

Tsinghua University China
M.S. in Computer Technology Sep 2022 – Jun 2025

- **Honors**: **Outstanding Graduate of Beijing** (Top 1%), **National Scholarship** (Top 0.2%)
- GPA: 3.93 / 4.00 (Rank: 3/61)

South China University of Technology China
B.S. in Computer Science and Technology Sep 2018 – Jun 2022

- **Honors**: **National Scholarship** (Top 0.2%)
- GPA: 3.95 / 4.00 (Rank: 1 / 160)

━━ TECHNICAL SKILLS ━━

LLM & Agent Frameworks: OpenHands, LlamaIndex, LlamaFactory, VeRL, Hugging Face Transformers

Infrastructure & Tools: Docker, Git, Linux

Languages: Python, C++, Java, SQL, Bash

━━ RESEARCH & PROFESSIONAL EXPERIENCE ━━

Northeastern University Boston, MA
Research Assistant (LLM Agents & Safety) Sep 2025 – Present

- Developed an evaluation benchmark to detect subtle code sabotage risks in coding agents during human-AI collaboration.
- Leveraged *OpenHands* to orchestrate agentic workflows and deploy Docker containers to create isolated, reproducible sandboxes for executing untrusted code.
- Fine-tuned agents using *LlamaFactory* to simulate subtle sabotage patterns, and deployed inference endpoints via LM Studio for seamless integration with the evaluation pipeline.

Squirrel AI Shanghai, China
Research Intern (LLM & AI Education) Aug 2024 – Jun 2025

- Developed an Automated Essay Scoring (AES) system incorporating feedback generation to assist English learners.
- Proposed a fine-grained error analysis benchmark for more interpretable error correction and explanation.
- Outcome: Published a paper at **EMNLP 2025** presenting the role of LLM in Education.

Alibaba (Tongyi Lab) Hangzhou, China
Research Intern (LLM Agent & RAG) Dec 2023 – Aug 2024

- Designed *ProductAgent*, a conversational e-commerce assistant capable of handling complex user intent through multi-turn reasoning and clarification questions.
- Implemented a RAG pipeline to ground agent responses in product data, significantly reducing hallucinations on long-tail queries.
- Engineered a Tool-Use mechanism allowing the agent to dynamically query databases and filter results based on user constraints.
- Outcome: Published a paper at **EMNLP 2025 (Industry)** demonstrating the agent's effectiveness in clarifying ambiguous queries.

Tencent Shenzhen, China
Software Engineering Intern Jul 2021 – Sep 2021

- Developed a compatibility testing tool for TDSQL (Tencent Database System), streamlining the migration validation process.
- Optimized database testing workflows using Python and SQL, reducing manual verification time.

SELECTED PUBLICATIONS

- [EMNLP 2025] **J. Ye**, S. Wang, et al. Position: LLMs Can be Good Tutors in English Education.
- [EMNLP 2025] **J. Ye**, Y. Jiang, et al. ProductAgent: Benchmarking conversational product search agent with asking clarification questions. (Industry Track)
- [AAAI 2025 Oral] **J. Ye**, S. Qin, et al. EXCGEC: A Benchmark for Edit-Wise Explainable Chinese Grammatical Error Correction.
- [ACL 2025] **J. Ye**, Z. Xu, et al. CLEME2.0: Towards Interpretable Evaluation by Disentangling Edits for Grammatical Error Correction.
- [EMNLP 2023] **J. Ye***, Y. Li*, et al. CLEME: Debiasing Multi-reference Evaluation for Grammatical Error Correction.
- [EMNLP 2023] **J. Ye**, Y. Li, et al. MixEdit: Revisiting Data Augmentation and Beyond for Grammatical Error Correction.
- [EMNLP 2023] Huang, H.*, **J. Ye***, et al. A Frustratingly Easy Plug-and-Play Detection-and-Reasoning Module for Chinese Spelling Check.

SELECTED AWARDS & HONORS

Outstanding Graduate of Beijing (Top 1%)   Jun 2025

National Scholarship (× 2) (Top 0.2%)   Dec 2024, Dec 2019

2nd Prize, CCL23-Eval Chinese Learner Text Correction Track 1   Aug 2023
- Led a team to develop a multidimensional error correction system, achieving Top-2 performance among 20+ teams.
- Responsible for model architecture and data curation.

Silver Prize, Geneva International Exhibition of Inventions   Apr 2023
- Co-developed *SmartCorrect*, a multilingual intelligent text error correction platform.

1st Prize, CCL22-Eval Chinese Learner Text Correction Task 4   Oct 2022
- Led a team to design a multi-reference correction model, achieving Top-1 performance among 30+ teams.
- Responsible for model architecture and data curation.