XINYU GUO Ph.D. STUDENT

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🌐 Homepage
github/xinnyuguo

EDUCATION

University of Arizona — Arizona, United States
Ph.D. student in Computer Science — 2024 - 2028 (expected)
- Advisor: Prof. Mihai Surdeanu
- Research area: Information Extraction, Reinforcement Learning, Large Language Models, Explainability

Shandong University — Shandong, China
B.E. in Computer Science — 2019 - 2023
- GPA: 89.56/100.00

PUBLICATIONS

1. **Xinyu Guo**, Zhengliang Shi, Minglai Yang, Mahdi Rahimi, Mihai Surdeanu*. Peeking inside the Black-Box: Reinforcement Learning for Explainable and Accurate Relation Extraction.

2. Minglai Yang, **Xinyu Guo**, Mihai Surdeanu, Liangming Pan. AlignSAE: Concept-Aligned Sparse Autoencoders.

3. Zhengliang Shi, ..., **Xinyu Guo**, ..., Zhaochun Ren. Deep Research: A Systematic Survey.

4. Zhaoze Sun, Chengliang Chai*, Qiyan Deng, Kaisen Jin, **Xinyu Guo**, Han Han, Ye Yuan, Guoren Wang, Lei Cao. QUEST: Query Optimization in Unstructured Document Analysis. Accepted by *VLDB* 2025.

RESEARCH EXPERIENCE

CLU-LAB, University of Arizona | Arizona, United States — 2025.03 - Present
- Advisor: Prof. Mihai Surdeanu
- Research Topic: Information Extraction, Reinforcement Learning, Explainable LLM.

CAES Research Center, Shandong University | Shandong, China — 2023.09 - 2024.09
- Advisor: Prof. Zhongxing Yu
- Research Topic: Program Analysis, Code Clone Detection, Automated Program Repair, AI4SE.

Oxford Winter Exchange Program, Oxford University | UK — 2022.02
- Advisor: Prof. Jeremy Pitt
- Topic: AI Myths, Reality, and Human-AI Interaction.

AWARDS AND HONORS

- **Academic Scholarship**, Shandong University — 2022
- **Entrepreneurial Practice Award**, Shandong University — 2020, 2021, 2022
- **Merit Award**, 6th "Internet+ " Innovation and Entrepreneurship Competition, — 2020

SKILLS

Programming Languages: Python, C/C++, MATLAB, Go, Java, HTML.

Libraries & Framework: PyTorch, Numpy, vLLM, VeRL(RL), Hugging Face Transformers, SQLite, MySQL, Spring Boot, JavaScript, Qt.

OS & Platforms: Linux, Windows, MacOS, GitHub.

Languages: Chinese, English.

TEACHING

Teaching Assistant for CSC337 Web Programming, CSC460 Database
University of Arizona, US — 2024, 2025

Teaching Assistant for Software Engineering
Shandong University, China — 2023