

Zhengliang Shi

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EDUCATION

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| M.S. at Shandong University | <i>Sep. 2023 – Jun. 2026</i> |
| <ul style="list-style-type: none">Computer Science and Technology; Rank: 1 / 41Supervised by Prof. <i>Zhaochun Ren</i>Core Modules: Machine Learning (99), Advanced Algorithms (98) | |
| B.E. at Shandong University | <i>Sep. 2019 – Jun. 2023</i> |
| <ul style="list-style-type: none">Computer Science and Technology; GPA: 93.46 / 100, Rank: 2 / 182Supervised by Prof. <i>Zhaochun Ren</i>, and Prof. <i>Xiuzhen Cheng</i>Core Modules: Advanced Mathematics (98), Discrete Mathematics (100) | |

SELECTED AWARDS

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| Presidential Scholarship (M.S.) | 2025 |
| National Scholarship, Ministry of Education, China (M.S.) | 2025 |
| Dean's Scholarship, Department of Computer Science (M.S.) | 2024 |
| Outstanding Graduate (B.E.) | 2023 |
| Academic Scholarship (B.E.) | 2021, 2022, 2023 |
| Presidential Scholarship (B.E.) | 2023 |
| Dean's Scholarship, Department of Computer Science (B.E.) | 2023 |
| National Scholarship, Ministry of Education, China (B.E.) | 2022 |

ACADEMIC SERVICES

- Area Chair for ACL Rolling Review (ARR)**, serving for conferences like ACL, EMNLP, and NAACL
- Program Committee** for SIGIR, TheWebConf (WWW), WSDM, AAAI and IJCAI
- Reviewer** for ICLR, ECIR, IPM (Journal), TKDD (Journal), TORS (Journal)

RESEARCH INTERESTS

My interests lie in Natural Language Processing and AI Agents, especially in the following three areas:

- Retrieval-augmented Generation (RAG)**
Incorporating agents with relevant knowledge from external corpora to improve their factuality.
- Tool Learning (also known as Tool-use Agents)**
Teaching agents to use diverse, external tools, expanding their action space to interact with digital world.
- Agentic Planning (also known as Long-horizon Reasoning)**
Enabling agents to decompose open-ended tasks into actionable sub-steps for tool executions.

PUBLICATIONS (Selected Papers Below; See the Full List in My [Google Scholar].)

I have published **15+ papers** in top-tier AI conferences, such as ACL and NeurIPS (8 first-authored). **Additional 7 papers** are under review, comprising 4 first-author and 3 co-authored papers. Below are **selected** publications.

- [1] Contrastive learning reduces hallucination in conversations
Second author; Accepted at AAAI 2023; **RAG**

- [2] Towards a Unified Framework for Reference Retrieval and Related Work Generation
First author; Accepted at EMNLP 2023; [RAG](#)
- [3] MAIR: A Massive Benchmark for Evaluating Instructed Retrieval
Second author; Accepted at EMNLP 2024; [RAG](#)
- [4] Mitigating Hallucinations in Large Vision-Language Models via Entity-Centric Multimodal Preference Optimization; *First author; Accepted at EMNLP 2025; [Reducing Hallucination](#)*
- [5] Iterative Tool Learning from Introspection Feedback by Easy-to-Difficult Curriculum
First author; Accepted at AAAI 2024; [Agents](#)
- [6] Learning to Use Tools via Cooperative and Interactive Agents;
First author; Accepted at EMNLP 2024; [Agents](#)
- [7] Retrieval Models Aren't Tool-Savvy: Benchmarking Tool Retrieval for Large Language Models
First author; Accepted at ACL 2025; [Agents](#)
- [8] Bridging the Capability Gap: Joint Alignment Tuning for Harmonizing LLM-based Multi-Agent Systems
First author; Accepted at EMNLP 2025; [Agents](#)
- [9] Tool Learning in the Wild: Empowering Language Models as Automatic Tool Agents;
First author; Accepted at WWW 2025; [Agents](#)
- [10] Generate-then-Ground in Retrieval-Augmented Generation for Multi-hop Question Answering
First author; Accepted at ACL 2024; [Agentic planning](#)
- [11] Divide-Then-Aggregate: An Efficient Tool Learning Method via Parallel Tool Invocation
Second author; Accepted at ACL 2025; [Agentic planning](#)
- [12] Iterative Self-incentivization Empowers Large Language Models as Agentic Searchers
First author; Accepted at NeurIPS 2025; [Agentic planning](#)

RESEARCH INTERNSHIPS

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| Tencent, TEG Group, HunYuan Multimodal Model Department | <i>Apr. 2025 – Present</i> |
| <ul style="list-style-type: none"> • Research Internship; Supervised by Dr. <i>Zhaopeng Tu</i> • Research Topic: Long-horizon Agent; Reasoning Reliability | |
| Leiden University (Netherlands), Institute of Computer Science | <i>Feb. 2025 – Mar. 2025</i> |
| <ul style="list-style-type: none"> • Research Visiting; Supervised by Prof. <i>Zhaochun Ren</i>, Prof. <i>Suzan Verberne</i>, and Prof. <i>Maarten de Rijke</i> • Research Topic: Tool-use Agent | |
| Baidu, Search Science Team | <i>Sep. 2023 – Feb. 2025</i> |
| <ul style="list-style-type: none"> • Research Internship; Supervised by Dr. <i>Lingyong Yan</i> and Dr. <i>Dawei Yin</i> • Research Topic: LLM-based Agent, Retrieval-augmented Generation | |
| Shandong University, Information Retrieval Laboratory | <i>Sep. 2022 – Jun. 2023</i> |
| <ul style="list-style-type: none"> • Research Assistant; Supervised by Prof. <i>Zhaochun Ren</i> • Research Topic: Retrieval-augmented Generation | |

TEACHING ASSISTANCE

- Teaching Assistant for Social Network and Public Opinion Analysis (2023), Operating Systems (2022), and Databases (2022).
- Supervision of undergraduate researchers, including guiding thesis projects and providing research suggestion. Four undergraduates have contributed to and co-authored published papers.
- Organization of academic activities such as weekly reading groups to foster collaborative learning.
- Delivered both online and in-person voluntary lessons (2020) to support students from rural areas in China.