

# Zhengliang Shi

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## EDUCATION

<b>M.S. at Shandong University</b>	<i>Sep. 2023 – Jun. 2026</i>
• Computer Science and Technology; Rank: 1 / 41	
• Supervised by Prof. Zhaochun Ren	
• Core Modules: Machine Learning (99), Advanced Algorithms (98)	
<b>B.E. at Shandong University</b>	<i>Sep. 2019 – Jun. 2023</i>
• Computer Science and Technology; GPA: 93.46 / 100, Rank: 2 / 182	
• Supervised by Prof. Zhaochun Ren, and Prof. Xiuzhen Cheng	
• Core Modules: Advanced Mathematics (98), Discrete Mathematics (100)	

## SELECTED AWARDS

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** *Apr. 2025 – Present*
- Research Internship; Supervised by Dr. Zhaopeng Tu
  - Research Topic: Long-horizon Agent; Reasoning Reliability
- Leiden University (Netherlands), Institute of Computer Science** *Feb. 2025 – Mar. 2025*
- Research Visiting; Supervised by Prof. Zhaochun Ren, Prof. Suzan Verberne, and Prof. Maarten de Rijke
  - Research Topic: Tool-use Agent
- Baidu, Search Science Team** *Sep. 2023 – Feb. 2025*
- Research Internship; Supervised by Dr. Lingyong Yan and Dr. Dawei Yin
  - Research Topic: LLM-based Agent, Retrieval-augmented Generation
- Shandong University, Information Retrieval Laboratory** *Sep. 2022 – Jun. 2023*
- Research Assistant; Supervised by Prof. Zhaochun Ren
  - Research Topic: Retrieval-augmented Generation

## TEACHING ASSISTANCE

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- 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.