

# Zhengliang Shi

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## EDUCATION

### Shandong University

Jun. 2023 – present

- M.S. in Computer Science and Technology, Information Retrieval Laboratory (*IRlab*)
- Core Modules: Machine Learning (99), Advanced Algorithms (98)

### Shandong University

Sep 2019 - Jun 2023

- B.E. in Computer Science and Technology (GPA: 93.46 / 100, Rank: 2 / 182)
- Core Modules: Advanced Mathematics (98), Discrete Mathematics (100)

## RESEARCH INTERESTS

Retrieval-augmented Generation, Language Agent (LLM-based Agent), Tool Learning

*highly enthusiastic about embracing new and diverse research area, such as LLM alignment or RL*

## RESEARCH EXPERIENCE (SELECTED)

### Baidu, Search Science Team

Sep. 2023 – Sep 2025

Supervised by *Lingyong Yan, Dawei Yin*

NLP Researcher

Topic: LLM-based Agent, Tool Learning with Foundation Model, RAG

### Shandong University, Information Retrieval Laboratory

Sep. 2022 – Jun. 2023

Supervised by: *Prof. Zhaochun Ren*

Research Assistant

Topic: Retrieval-augmented Generation (RAG), Knowledge-grounded Dialogue System

## PUBLICATIONS (SELECTED \* equal contribution)

- [1] Tool Learning in the Wild: Empowering Language Models as Automatic Tool Agents  
**Zhengliang Shi**, Shen Gao, Lingyong Yan, Yue Feng, Xiuyi Chen, Haibo Shi, Dawei Yin, Zhumin Chen, Suzan Verberne, Zhaochun Ren.  
Accepted by **WWW** 2025
- [2] Generate-then-Ground in Retrieval-Augmented Generation for Multi-hop Question Answering  
**Zhengliang Shi**, Shuo Zhang, Weiwei Sun, Shen Gao, Pengjie Ren, Zhumin Chen, Zhaochun Ren.  
Accepted by **ACL** 2024
- [3] Iterative Tool Learning from Introspection Feedback by Easy-to-Difficult Curriculum  
Shen Gao\*, **Zhengliang Shi**\*, Minghang Zhu, Bowen Fang, Xin Xin, Pengjie Ren, Zhumin Chen, Jun Ma, Zhaochun Ren.  
Accepted by **AAAI** 2024
- [4] Learning to Use Tools via Cooperative and Interactive Agents  
**Zhengliang Shi**, Shen Gao, Xiuyi Chen, Yue Feng, Lingyong Yan, Haibo Shi, Dawei Yin, Zhumin Chen, Suzan Verberne, Zhaochun Ren.  
Accepted by **EMNLP** 2024
- [5] MAIR: A Massive Benchmark for Evaluating Instructed Retrieval  
Weiwei Sun, **Zhengliang Shi**, Wu Jiu Long, Lingyong Yan, Xinyu Ma, Yiding Liu, Min Cao, Dawei Yin, Zhaochun Ren.

Accepted by **EMNLP 2024**

- [6] Towards a Unified Framework for Scientific Reference Retrieval and Related Work Generation

**Zhengliang Shi**, Shen Gao, Xiuying Chen, Pengjie Ren, Zhumin Chen, Zhaochun Ren.

Accepted by **EMNLP 2023**

- [7] Reference-Assisted Dialogue Evaluation for Open-Domain Dialogue

**Zhengliang Shi** Weiwei Sun, Shuo Zhang, Zhen Zhang, Pengjie Ren, Zhumin Chen, Zhaochun Ren.

Accepted by **ACL 2023**

- [8] Contrastive learning reduces hallucination in conversations

Weiwei Sun, **Zhengliang Shi**, Shen Gao, Pengjie Ren, Maarten de Rijke, Zhaochun Ren.

Accepted by **AAAI 2023**

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#### ACADEMIC SEERVICES

*Area Chair* (AC) for ARR

*Program Chair* (PC) for WWW, SIGIR and KEIR

*Reviewer* for IJCAL2024, AAAI2024 and IPM (CCF-B journal), ACL, EMNLP, NAACL

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#### COMPETITION AWARD (SELECTED)

2022 World Artificial Intelligence Challenge Competition	National 3rd Prize
2022 American Mathematical Modeling Competition	Honorable Mention
2021 American Mathematical Modeling Competition	Honorable Mention
2021 China Mathematical Modeling Competition	National 1th Prize
2021 China Innovation & Entrepreneurship Competition	National 1th Prize

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#### HONOR (SELECTED)

<b>National Scholarship</b> , Ministry of Education, China	2021
<b>Dean's Scholarship</b> , Shandong University, Department of Computer Science	2022
<b>Presidential Scholarship</b> , Shandong University, China	2022
<b>Academic Scholarship</b> , Shandong University, China	2021, 2022, 2023
<b>Excellent Graduate</b> , Shandong University, China	2023

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#### LEADERSHIP EXPERIMENT (SELECTED)

##### Teaching Assistance

*Teaching Assistance Program, Shandong University* Sep 2022 - Present

- Serve as a Teaching Assistant for multiple computer science courses, which include (1) Operating Systems, (2) Databases, (3) Natural Language Processing

##### Team Leader

*Research Internship Team, Shandong University* Sep 2022 - Present

- Plan and facilitated weekly meetings and discussions
- Coordinated the assignments for the interns

##### Team Leader

*Education Support Society (ESS), Shandong University.* Sep 2021 - Sep 2022

- Lead a team of ESS to facilitate both online and offline teaching projects
- Honored with the National Outstanding Team recognition