Shichao Song (宋世超)

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Education

Renmin University of China

- Ph.D. in Computer Application Technology
- Supervised by Prof. Xun Liang
- 2023.09 Present

Henan University of Economics and Law

- B.Mgt. in E-commerce
- Supervised by Prof. Yong Pan and Prof. Xiaodong Shi
- GPA: 4.05/5.0, Top 2%
- 2019.09 2023.06

Work Experience

Institute for Advanced Algorithms Research, Shanghai

- Research Intern at the Large Language Model Center
- Supervised by Dr. Zhiyu Li and Dr. Zehao Lin
- 2023.09 2025.06

Selected Researches

Full publication list: https://scholar.google.com/citations?hl=en&user=91cfp3wAAAAJ

MemOS: An Operating System for Memory-Augmented Generation (MAG) in Large Language Models

- *arXiv*, 2025
- Paper: <u>https://arxiv.org/abs/2505.22101</u>
- Code: <u>https://github.com/MemTensor/MemOS</u>
- Note: Second author / Co-first author

xFinder: Robust and Pinpoint Answer Extraction for Large Language Models

- ICLR, 2025
- Paper: https://iclr.cc/virtual/2025/poster/30821
- Code: <u>https://github.com/IAAR-Shanghai/xFinder</u>
- Note: Third author / Co-first author

Attention Heads of Large Language Models: A Survey

- Cell Patterns, 2025
- Paper: https://www.cell.com/patterns/fulltext/S2666-3899(25)00024-8
- Code: https://github.com/IAAR-Shanghai/Awesome-Attention-Heads
- Note: Contribute to the initial idea proposal and project initiation

TurtleBench: Evaluating Top Language Models via Real-World Yes/No Puzzles

- *arXiv*, 2024
- Paper: <u>https://arxiv.org/abs/2410.05262</u>

- Code: <u>https://github.com/mazzzystar/TurtleBench</u>
- Note: Co-first author

Memory³: Language Modeling with Explicit Memory

- J. Mach. Learn., 2024
- Paper: <u>https://global-sci.org/intro/article_detail/jml/23419.html</u>
- Note: Contribute to the truthfulness evaluation of language models

UHGEval: Benchmarking the Hallucination of Chinese Large Language Models via Unconstrained Generation

- ACL, 2024
- Paper: <u>https://aclanthology.org/2024.acl-long.288/</u>
- Code: <u>https://github.com/IAAR-Shanghai/UHGEval</u>
- Note: Supervisor as the first author, myself as the second author

Controlled Text Generation for Large Language Model with Dynamic Attribute Graphs

- Findings of ACL, 2024
- Paper: https://aclanthology.org/2024.findings-acl.345/
- Code: <u>https://github.com/IAAR-Shanghai/DATG</u>
- Note: Third author / Co-first author

Internal Consistency and Self-Feedback in Large Language Models: A Survey

- IEEE TPAMI (reviewing), 2024
- Paper: <u>https://arxiv.org/abs/2407.14507</u>
- Code: <u>https://github.com/IAAR-Shanghai/ICSFSurvey</u>
- Note: Supervisor as the first author, myself as the second author

Grimoire is All You Need for Enhancing Large Language Models

- *arXiv*, 2024
- Paper: https://arxiv.org/abs/2401.03385
- Code: <u>https://github.com/IAAR-Shanghai/ICSFSurvey</u>
- Note: Supervisor as the first author, myself as the second author

Research on Cold-Start of Product Recommendation with Graph Neural Network

- Undergraduate Thesis, 2023 (Outstanding Undergraduate Thesis)
- PDF: https://ki-seki.github.io/assets/GNNRSThesis.pdf
- Code: <u>https://github.com/Ki-Seki/KGCN-pytorch-updated/tree/ugt-only</u>

Advances in Graph Meta-Learning

- Chinese Journal of Computers (reviewing), 2023
- Note: Contribute to paper writing

Optimization of Emergency Supplies Distribution Across Risk Areas During the Pandemic

- GitHub, 2022
- Code: <u>https://github.com/Ki-Seki/MOPSO-for-Distribution</u>
- Note: Supervisor as the first author, myself as the second author

Selected Awards and Honors

Second-Class Academic Scholarship for Doctoral Students

• Renmin University of China, 2023.11

National Encouragement Scholarship (Rank: Top 5%)

• Henan University of Economics and Law, 2022.11

National Second Prize in the China Undergraduate Mathematical Contest in Modeling

• China Society for Industrial and Applied Mathematics, 2021.11

Scored 591/710 in the College English Test Band 6 (CET-6)

• Ministry of Education of the People's Republic of China, 2021.09

Scored 607/710 in the College English Test Band 4 (CET-4)

• Ministry of Education of the People's Republic of China, 2020.12

National Encouragement Scholarship (Rank: Top 5%)

• Henan University of Economics and Law, 2020.11

Services

- Reviewer for ICLR'25, ACM TIST
- Volunteer at AI TIME