Jiarui Ji

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Education

Tongji University |Data Science from the School of Electronic and Information Engineering| *B.E.* 2019.09-2023.06

GPA: 4.86/5.00; Rank: 2/37. **Outstanding Graduates from Shanghai** (Top 5% in Shanghai)、**National Scholarship** (Top 0.2% Nationwide)

Renmin University of China |Gaoling School of Artificial Intelligence| *M.E.*　　　　　2023.09-2025.06

Renmin University of China |Gaoling School of Artificial Intelligence| *Ph.D. Student*　　2025.09-ToDate

English: CET-6 score 633; CET-4 score 626

Intern

Megvii |*Intern/C++*　　　　　　　　　　　　　　　　　　　　　　　　　　　2022.04-2023.06

- **Mge-Converter**: Developed opr converter from different deep-learning engines(e.g. pytorch) in Mge-Converter, mgeconvert.

Alibaba Tongyi Lab |*Intern/Research*　　　　　　　　　　　　　　　　　　　　2024.03-2025.03

- **GAG**: Developed GraphAgent-Generator (GAG), a parallelized social graph synthesis framework leveraging agent-item bipartite modeling. First-author paper has been published in ACL-2025. arXiv. Code.
- **GAD**: Developed LLM-based predictive frameworks for dynamic graphs, addressing critical challenges in context-length constraints and domain variability. arXiv.
- **GDGB**: Proposed GDGB, the first comprehensive benchmark for dynamic text-attributed graph (DyTAG) generation, featuring 8 text-rich graph datasets and a newly designed evaluation pipeline. arXiv. Website. Code.

Research

SRAP-Agent |*Renmin University of China*　　　　　　　　　　　　　　　　　2023.07-2024.01

- Designed and implemented SRAP-Agent, a novel framework integrating LLMs into economic simulation for scarce public resource allocation (e.g., housing distribution in Beijing/Singapore).
- First-author paper published in EMNLP 2024. Link. Code

GraphAgent-Generator (GAG) |*Renmin University of China, Alibaba Tongyi Lab*　2024.03-2025.03

- Built an LLM-agent framework to model citation network evolution, revealing mechanisms behind power-law distributions, citation deflection, and diameter shrinkage in network science.
- First-author paper published in ACL-2025. Link. Code.

CiteAgent |*Renmin University of China, Alibaba Tongyi Lab*　　　　　　　　　2024.03-2025.03

- Built an LLM-agent framework to model citation network evolution, revealing mechanisms behind power-law distributions, citation deflection, and diameter shrinkage in network science.
- First-author paper accepted at HSSCOMMS(SSCI Q1, AHCI Q1). arXiv. Code.

Graphia |*Renmin University of China, Alimama Group*　　　　　　　　　　　2025.03-2025.12

- Built an LLM-agent reinforcement learning-based social network graph generation framework, improving simulation effectiveness at both micro and macro levels, outperforming existing deep learning-based graph generators and LLM-based social simulators. First-author paper under review. arXiv. Code.

Graph Generator Survey |*Renmin University of China, Alimama Group*　　　　2025.03-2025.12

- Conducted a systematic survey of graph generation models, focusing on two categories: geometric small graphs and scale-free large graphs. First-author paper under review. arXiv. Code.

Skills

- **Skills**: Git，GitHub，Markdown，Shell，SQL
- **Coding**: Python，C/C++，JavaScript，C#