

SHENGBO GONG

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EDUCATION

Emory University, Atlanta, USA
Ph.D. Student in Computer Science
Advisor: Dr. Wei Jin & Dr. Carl Yang

Sept. 2024 – Present

Zhejiang University of Technology, Hangzhou, China
M.Eng. in Control Science and Engineering

Sept. 2021 – Jun. 2024

Shanghai Jiao Tong University, Shanghai, China
B.Eng. in Biomedical Engineering

Sept. 2016 – Jun. 2020

RESEARCH INTERESTS

- Data Efficiency, Data-centric Graph Learning

PUBLICATIONS & MANUSCRIPTS (*EQUAL CONTRIBUTION)

[Google Scholar Link](#) #Citations: 307, H-index: 7, #(Co-) First Author Citations: 227

1. **Shengbo Gong**, Xianfeng Tang, Qi He, Carl Yang, Wei Jin.
Beyond Chunks and Graphs: Retrieval-Augmented Generation through Triplet-Driven Thinking
ACL Findings, 2026.
Description: Introduced a token-efficient RAG system and saved up to 45% tokens in QA tasks for GPT and Gemini.
2. **Shengbo Gong**, Yian Yin, Xianfeng Tang, Carl Yang, and Wei Jin
Cost Does Not Buy Impact: A 173K-Dataset Audit of the AI Data Economy
Submitted to Nature Machine Intelligence, 2026.
Description: Trained a cost-number-sensitive Qwen-32B model using SFT and RL to conduct a large-scale cost audit across 173K AI datasets.
3. **Shengbo Gong***, Juntong Ni*, Noveen Sachdeva, Carl Yang, Wei Jin.
GC4NC: A Benchmark Framework for Graph Condensation on Node Classification with New Insights
NeurIPS, 2025.
4. **Shengbo Gong***, Mohammad Hashemi*, Carl Yang, Wei Jin.
Scalable Graph Condensation with Evolving Capabilities
KDD, 2026.
5. Jiajun Zhou*, **Shengbo Gong***, Chenxuan Xie, Shanqing Yu, Qi Xuan, Xiaoniu Yang.
Clarify Confused Nodes Through Separated Learning
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025.
6. Mohammad Hashemi*, **Shengbo Gong***, Juntong Ni, Wenqi Fan, B Aditya Prakash, Wei Jin.

A Comprehensive Survey on Graph Reduction: Sparsification, Coarsening, and Condensation
IJCAI, 2024.

7. **Shengbo Gong**, Jiajun Zhou, Chenxuan Xie, Qi Xuan.
Neighborhood Homophily-Guided Graph Convolutional Network
CIKM, 2023.
8. Xudong Chen, **Shengbo Gong**, Lu Cheng, and Wei Jin.
Temporal Graph Prototype-conditioned Conformal Prediction for Fraud Detection
KDD, 2026
9. Songyuan Liu, **Shengbo Gong**, Tianning Feng, Zewen Liu, Max SY Lau, Wei Jin.
Higher-order Interaction Matters: Dynamic Hypergraph Neural Networks for Epidemic Modeling
Pacific Symposium on Biocomputing (PSB), 2026.
10. Jiajun Zhou, Chenxuan Xie, **Shengbo Gong**, Zhenyu Wen, Xiangyu Zhao, Qi Xuan, Xiaoni Yang.
Data Augmentation on Graphs: A Technical Survey
ACM Computing Surveys, 2025.
11. Juntong Ni, **Shengbo Gong**, Wei Jin.
Dataset Distillation for Enterprise Applications
Book Chapter, Enterprise AI, 2026.

EXPERIENCE

Amazon

May 2026 – Present

Applied Scientist Intern

Designed and developed foundation models for long-term customer value prediction, leveraging billion-scale behavioral data.

OPEN-SOURCE PROJECTS

- **GraphSlim**
The first Python toolkit that integrates over 20 types of graph reduction techniques.
- **T2RAG**
An efficient RAG framework for multi-hop QA tasks powered by triplet-driven thinking.

AWARDS AND HONORS

- **IJCAI Bronze Tier Reviewer, 2026**
- **NeurIPS travel Award (\$3000), 2025**
- **SDM travel Award (\$1250), 2025**
- **Google Cloud Research Credits Award (\$1000), 2024**

TEACHING EXPERIENCE

- **Teaching Assistant** for *CS 570 Data Mining* at Emory University, 2024–2025
- **Teaching Assistant** for *CS 350 System Programming* at Emory University, 2025–2026

PROFESSIONAL SERVICE

Reviewer:

- KDD 2024, IJCAI 2025, AMIA 2025, AAAI 2026, ICLR 2026, ICML 2026, NeurIPS 2026, IJCAI 2026