Ying Zhang

M.S. in Computer Science, ShanghaiTech University, Shanghai, China
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RESEARCH INTERESTS

Data Science, Large Language Models, Computational Social Science
Long-term Vision: Applying computational techniques to generate broad societal benefits.

EDUCATION

ShanghaiTech University, Shanghai, China   September 2022 — July 2025
M.S. in Computer Science, advised by Prof. Haipeng Zhang   Major GPA: 3.75/4.00
Outstanding Graduate (Top 10%)
Thesis *"Intrinsic Structure-Driven Information Acquisition in Data-Scarce Scenarios"*
Communication University of China, Beijing, China   September 2018 — June 2022
B.Eng. in Data Science and Big Data Technology   Major GPA: 3.85/4.00
Outstanding Graduate (Top 10%)

PUBLICATIONS (* denotes equal contribution)

[1] **Ying Zhang***, Xiaofeng Li*, Zhaoyang Liu, and Haipeng Zhang, "Paths of A Million People: Extracting Life Trajectories from Wikipedia", (ICWSM'25) [Paper & Code]

[2] Hongyuan Tao*, **Ying Zhang***, Zhenhao Tang*, Hongen Peng, Xukun Zhu, Bingchang Liu, Yingguang Yang, Ziyin Zhang, Zhaogui Xu, Haipeng Zhang, Linchao Zhu, Rui Wang, Hang Yu, Jianguo Li, Peng Di, "Code Graph Model (CGM): A Graph-Integrated Large Language Model for Repository-Level Software Engineering Tasks", (NeurIPS'25) [Paper & Code]

[3] Laixin Xie, **Ying Zhang**, Xiyuan Wang, Shiyi Liu, Shenghan Gao, Xing Jiang, Xingxing Xing, Wei Wan, Haipeng Zhang, and Quan Li, "Influence Maximization in Temporal Social Networks with a Cold-start Problem: A Supervised Approach", (ICWSM'25) [Paper & Code]

[4] Kai Peng*, **Ying Zhang***, Shuai Ling, Zhaoru Ke, and Haipeng Zhang, "Where Did the President Visit Last Week? Detecting Celebrity Trips from News Articles", (ICWSM'24, Spotlight)[Paper & Code]

[5] Xiaofeng Li, Xiangyi Xiao, Xiaocong Du, **Ying Zhang**, and Haipeng Zhang, "Tracing Footsteps of Similar Cities: Modeling Urban Economic Vitality with Dynamic Inter-City Graph Embeddings", (IEEE BigData'25, Short Paper) [Paper & Code]

UNDER REVIEW

[6] **Ying Zhang**, Hang Yu, Haipeng Zhang, Peng Di, "LAMP: An LLM-based Message Passing Architecture for Text-Rich Graphs", [Paper]

[7] Zhongyang Liu, **Ying Zhang**, Xiangyi Xiao, Wenting Liu, Yuanting Zha, and Haipeng Zhang, "When Life Paths Cross: Extracting Human Interactions in Time and Space from Wikipedia", [Paper & Code]

RESEARCH EXPERIENCE

ShanghaiTech University, Shanghai, China   Oct 2021 – Jun 2025

Life Trajectory Extraction (Computational Social Science) - Research Assistant — Project Website

- Co-initiated the CeleTrip project (first in the life trajectory series), contributing the core idea and leading execution early; later guided following works.
- Contributed a core member to a trilogy of projects including *CeleTrip* [4], *COSMOS* [1] and *FALCON* [7], extracting spatio-temporal trajectories from millions of Wikipedia biographies.
- Performed empirical analysis of trajectory patterns (e.g. historian mobility) and released both datasets and code for downstream computational social science research.

Ant Group, Hangzhou, China   Jun 2024 – Present

Graph-based LLMs for Code and Text-rich Graphs (Large Language Models) - Research Intern

- Built pre-training datasets for subgraph reconstruction and implemented the initial GraphRAG modules (Rewriter, Retriever, Reranker), forming the basis for *CGM* [2] on issue-fixing scenarios, which ranked first among open-source models on the SWE-bench Lite leaderboard (May 2025).
- Proposed *LAMP* [6], an LLM-based message passing framework with dual-representation and memory-table propagation for text-rich graphs.

INTERNSHIP

Ant Group, Hangzhou, China   June 2024 — Present

- **Research Intern — Topics: Code LLMs, Text-Rich Graphs**
  Working on improving LLM performance in code generation and structured graph reasoning; contributing to data construction, modeling, and evaluation pipelines.
- One patent under review:
  - A Repository-Level Graph-Based Code Large Language Model (No. CN202411612892)

AWARDS & HONORS

ICWSM Student Travel Award (2024,2025)
Merit Student ShanghaiTech University (2023,2024)
Merit Student Communication University of China (2019, 2020, 2021, 2022)
Academic Scholarship Communication University of China (2019, 2020, 2021)

SERVICES

Reviewer for ICWSM (2024,2025), CIKM (2023,2024)
Teaching Assistant for CS277 (Introduction to Data Science and Fintech), ShanghaiTech University, 2022 Fall/2023 Fall

SKILLS

- **Programming:** Pytorch Numpy Pandas LaTeX
- **Language:** Chinese (Native), English (IELTS Overall 7.0; L 7.5, R 8.0, W 6.5, S 6.5)