

## Ying Zhang

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

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Data Science, Computational Social Science

**Long-term Vision:** Applying computational techniques to generate broad societal benefits.

### EDUCATION

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**ShanghaiTech University**, Shanghai, China  
M.S. in Computer Science, advised by Prof. Haipeng Zhang  
Outstanding Graduate

September 2022 — July 2025  
Major GPA: 3.75/4.00

Thesis “*Intrinsic Structure-Driven Information Acquisition in Data-Scarce Scenarios*”

**Communication University of China**, Beijing, China  
B.Eng. in Data Science and Big Data Technology  
Outstanding Graduate

September 2018 — June 2022  
Major GPA: 3.85/4.00

### PUBLICATIONS (\* denotes equal contribution)

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- **Ying Zhang\***, Xiaofeng Li\*, Zhaoyang Liu, and Haipeng Zhang, “Paths of A Million People: Extracting Life Trajectories from Wikipedia”, (ICWSM’25) [Paper & Code]
- 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, Accepted) [Paper & Code]
- 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]
- 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]

### UNDER REVIEW

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- **Ying Zhang**, Hang Yu, Haipeng Zhang, Peng Di, “LAMP: An LLM-based Message Passing Architecture for Text-Rich Graphs”
- 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”
- Xiaofeng Li, Xiangyi Xiao, Xiaocong Du, **Ying Zhang**, and Haipeng Zhang, “Tracing Footsteps of Similar Cities: Forecasting Regional Entrepreneurship with Dynamic Inter-City Graph Embeddings”

### RESEARCH EXPERIENCE

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**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* (ICWSM 2024), *COSMOS* (ICWSM 2025) and *FALCON* (preprint), 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 on issue-fixing scenarios.
- Proposed LAMP, an LLM-based message passing framework with dual-representation and memory-table propagation for text-rich graphs.

## INTERNSHIP

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**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.

- Two patent under review:

- A Repository-Level Graph-Based Code Large Language Model (No. CN202411612892)
- An LLM-based Message Passing Method for Text-Rich Graphs (In Submission)

## AWARDS & HONORS

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**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

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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

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- **Programming:** Pytorch Numpy Pandas  $\text{\LaTeX}$
- **Language:** Chinese (Native), English (IELTS 7.0)