# Yingming Zhou

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## EDUCATION

**Capital Normal University**                                               2021 - Present

Bachelor of Information Management and Information Science,        **GPA: 92.1/100, Rank: 1/20**

## PUBLICATIONS

(* stands for equal contribution)

Manuscripts

[1]**(AAAI-2025)** Leilei Lin* and Yingming Zhou* . "Think-on-Process: Dynamic Process Generation for Collaborative Development of Multi-Agent System." In submission. [PDF]

[2]**(AAAI-2025)** Leilei Lin, Yumeng Jin and Yingming Zhou. "MAO: A Framework for Process Model Generation with Multi-Agent Orchestration." In submission. [PDF]

Conference Publications

[3]**(WCNC-2024)** Xingchi Peng, Yunuo Cao, Leilei Lin and Yingming Zhou. "Individual Behavior Clustering with Sensors Using Graph Convolutional Networks." 2024 IEEE Wireless Communications and Networking Conference. [PDF]

## RESEARCH EXPERIENCES

**MAO: Multi-Agent Collaboration Orchestration for Process Model Generation**        Apr 2024 - June 2024

Advisors: Leilei Lin & Chen Qian

- Proposed a novel framework that allows multi-agent to collaborate to automatically generate process models from textual process requirements without human involvement.
- Used multi-round interaction mechanisms and integration of external tools to alleviate hallucination phenomena.

**ToP: Dynamic Instance Generation Guides Multi-Agent Software Development**        Nov 2023 - Jan 2024

Advisors: Leilei Lin & Chen Qian

- Investigated how the Large Language Models(LLMs) dynamically generate instances to guide software development, and divised the ToP framework, which generate instances according to different user requirements, and then use multi-agent to develop software.
- Applied process mining algorithm to extract software development process from successful instances, which used to enhance the dynamic instance generation capability of large language models.

**Individual Behavior Clustering Using Graph Convolutional Networks**        Aug 2023 - Oct 2023

Advisor: Leilei Lin

- Aimed to use graph convolutional networks clustering different behavior patterns and visualize them on a calendar, which allows users to easily and intuitively spot anomalies.

## PROJECT EXPERIENCES

**ChatDev: Communicative Agents for Software Development**        Sep 2023 - Nov 2023

Main Contributor

- ChatDev is a virtual software company that uses a variety of intelligent agents to play different roles and implement different needs of users through programming, which has been open sourced on Github and has accumulated over 25k stars. [link]

- Realize the automation of development process and the architecture construction of multi-agent collaboration.

**Recommendation of Business Process Models based on Graph Convolutional Networks**  Mar 2023 - Jul 2023

Main Contributor

- Applied unfolding technology to structure the unstructured BPMN, and used GCN to capture the global characteristics of each two structured BPMN, finally gived recommendations.

## Awards and Scholarships

- **First-class Scholarship**, Capital Normal University                                              2023/2024
- **Academic Excellent Award**, Capital Normal University                                        2023/2024
- **Merit student**, Capital Normal University                                                            2023/2024
- **The third prize of Enterprise Competition Simulation Competition**, Chinese Academy Management       2023

## Skills

- **Programming Skills:** Python, C++, Java, etc.
- **Multi-Agent Framework:** ChatDev, AutoGen, Camel, etc.