Jingming Chen

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EDUCATION

University of Illinois Urbana-Champaign **Urbana, IL**
Master of Computer Science *Aug 2024 – May 2026*
GPA: 4.0/4.0

- **Relevant courses:** Large Language Models (LLM), Deep Learning, Natural Language Processing, Machine Learning, Computer Vision, Data Mining, Software Engineering

Tsinghua University **Beijing, China**
Visiting Student Researcher *July 2025 – Dec 2025*

- Conducting large language model (LLM) agent research with the Knowledge Engineering Group (KEG) at Tsinghua University, under the supervision of Professor Yuxiao Dong.

New York University **New York, NY**
Major in Computer Science with honors (B.A.) *Sept 2020 – May 2024*
Minor in Web Programming and Applications, and Business Studies
GPA: 3.7/4.0

- **Relevant courses:** Artificial Intelligence, Computer Networks, Data Management and Analysis, Object Oriented Programming, Computer Systems Organization, Operating Systems, Web Development, Web Design, Discrete Mathematics, Linear Algebra
- **Honors:** Dean's List for Academic Year, Honors in Computer Science

RESEARCH

Benchmark on Latent and Shifting User-Intent in Long-Horizon Agents **Urbana, IL**
KDD 2027, under review *May 2026 – July 2026*
Related Skills: Benchmark and dataset construction, LLM/VLM agents, User-simulation

- Designed a benchmark that represents user intents as graphs, enabling precise manipulation and measurements of human-agent intent alignment and changes in long-horizon agentic tasks via graph projection and edits.
- Built an automated pipeline that generates text and multimodal long-horizon tasks covering coding and deep research domains, and publicly released 256 difficulty-calibrated tasks with verifiable web-evidence records.
- Evaluated 11 frontier closed- and open-source models across various configurations using a suite of process-level and outcome-based metrics.

Agentic Framework and Data-Generation Pipeline for Deep Information-Seeking **Urbana, IL**
NeurIPS 2026, under review *Oct 2025 – May 2026*
Related Skills: LLM agents, Synthetic data generation, SFT, Agent evaluation

- Designed a novel training-free agentic framework for deep research with performance that surpasses strong baselines on challenging benchmarks such as BrowseComp, GAIA, and Xbench.
- Implemented innovative components for the agentic framework that combine hierarchical planning, self-correction, confidence-weighted reflection, folding and checkpoint-based context management, critical-error diagnosis, and trajectory rollback error-correction.
- Utilized the framework as a training-data generation pipeline and performed SFT on two open-source LLMs, resulting in models that also outperformed baselines across multiple benchmarks.

Siemens Xcelerator Contest - MioVerse Track **Beijing, China**
Bronze Medal (5/1400+) *July 2025 – Sept 2025*
Related Skills: Research, Python, Operations Research

- Researched and designed a multi-agent pathfinding (MAPF) algorithm for the competition.
- Built a multi-agent LLM system that solves the MAPF problem through hierarchical roles.
- Constructed a traditional multi-agent pickup and delivery (MAPD) solver with windowed priority-based search, rolling-horizon replanning, orientation-aware A* pathfinding, and FIFO task constraints.

SKILLS & INTERESTS

- **Skills:** Research, LLM training and evaluation
- **Programming Languages:** Python, JavaScript, HTML/CSS
- **Languages**: English, Chinese
- **Research Interests:** Agentic LLMs, LLM Reasoning