

# Jingming Chen

(917) 495-9922 | [jingmingjackchen@gmail.com](mailto:jingmingjackchen@gmail.com) | [github.com/jingmingjackchen](https://github.com/jingmingjackchen)

## 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) agents research with the Knowledge Engineering Group (KEG) at Tsinghua University, hosted by 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

### Agentic Framework and Data-Generation Pipeline for Deep Information-Seeking

Urbana, IL

NeurIPS 2026, under review

Oct 2025 – May 2026

Related Skills: Research, 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 combines 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 training on two open-source LLM models to create models that also beat baselines on different 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.

## EXPERIENCES

### CSG Smart Science & Technology

Shanghai, China

Research Intern

May 2024 – July 2024

Related Skills: PyTorch, OpenCV, Python

- Researched, designed, and built machine-learning models that use weather data and sky imaging to generate real-time forecasts of photovoltaic power output for large-scale solar farms so that power grids can anticipate sudden changes in solar output to optimize grid efficiency.
- Extracted motion vectors from ground-based sky imaging to create ultra-short-term forecasts of cloud movement and cloud coverage to calculate power output.
- Integrated forecasting models with the company's energy management system to create a user-friendly GUI for visualizing power forecasts.

## SKILLS & INTERESTS

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