Chenying Lin

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Interdisciplinary researcher combining engineering rigor with sociological thinking. My work focuses on HCI, Social AI, LLM-based social simulation, and explainable AI systems.

Education

Wuhan University — *B.A. in Sociology, School of Sociology* *Sept 2023 – Jul 2027*

- GPA: 3.85/4.0 — Average Score: 90.4
- **Relevant Coursework:** Advanced Mathematics (98), Probability Theory (96), Social Statistics (94), Introduction to Sociology (100), Social Research Methods (90), Big Data Analytics

Publications

Toward Valid Social Simulation through Personality Trait Steering in LLM Agents
Conference Paper — Neural Information Processing Systems, NeurIPS 2026 (Under Review)
Jingchi Yang[1], ***Chenying Lin***[2], Ke He[3], Bin Yang[4], Mang Ye[5]
Second author; designed personality trait steering experiments across multi-agent social media simulation scenarios and developed the evaluation protocol measuring behavioral validity of conformity and extraversion interventions

CAX-Agent: Reliability-Centric APDL Automation via Model-Driven Recovery
Conference Paper — International Conference on Computer Modeling and Simulation, ICCMS 2026
Chenying Lin[1], Yichen Hai[2], Yi He[3], Ran Wang[4], Liang Yu[5]
First author; conceived the experimental framework and led the full pipeline

Research Experience

TRACE: Personality Steering for Valid LLM-based Social Simulation *Feb 2026 – May 2026*
Second author; supervised by Prof. Mang Ye, School of Computer Science, WHU
A RepE-based framework for steering personality traits in LLM social agents to achieve behavioral validity — submitted to NeurIPS 2026

- Co-developed TRACE using representation engineering (RepE) for targeted editing of personality traits in LLM social agents, addressing the validity problem in generative agent-based modeling.
- Led experimental validation: designed and evaluated multi-agent social media simulations with conformity and extraversion steering, measuring effects on false news propagation across 12 simulated scenarios.
- Demonstrated representation-level control achieves behavioral validity where prompt-based methods fail.

CAX-Agent: Recovery Strategies for LLM-based CAD/CAE Automation *Dec 2025 – Apr 2026*
First author; supervised by Prof. Liang Yu, School of Civil Aviation, Northwestern Polytechnical University
Systematic comparison of no-recovery, rule-only, and model-only strategies for LLM-driven engineering automation — accepted at ICCMS 2026

- Conceived the research agenda: proposed experimental framework and evaluation protocols based on hands-on experience with a production CAX agent system.
- Designed and executed 450 systematic case-runs across 50 APDL tasks; led data collection, analysis, and interpretation.
- First-author manuscript establishing the first systematic reliability benchmark for LLM-driven engineering automation.

Computational Text Analysis of Judicial Documents *Dec 2024 – Jun 2025*
Supervised by Prof. Gong Weigang, School of AI, WHU
Large-scale NLP analysis of 170,000 Chinese judicial documents for case outcome prediction

- Acquired cloud-based big data analytics (Google Cloud Platform) for large-scale social data processing.
- **Research & Modeling**
  - Conducted text mining and NLP on 170K Chinese judicial documents on betrothal gift disputes; developed an AI-based judgment prediction model for case outcome prediction.
  - Report awarded **First Prize, Ziqiang Cup**.

- **Product Development**
  - Co-led development of "FaXiaoZhi" (JustEase), a legal-domain AI agent built on judicial LLMs for smart governance and legal services.

Algorithmic Ethics in the Platform Economy *Jun 2024 – Sep 2024*
Supervised by Prof. Chen Jiangjin, School of Philosophy, WHU
Qualitative investigation of algorithmic labor control in food delivery platforms

- Led field research on food delivery platform algorithms: conducted in-depth interviews and participant observation with platform workers.
- Revealed how platform algorithms construct information asymmetries and shape labor processes.
- Awarded **National Third Prize**, Challenge Cup Unveiling and Command Competition.

Entrepreneurship

Shanghai Ultradimension Technology Co., Ltd. — *Co-founder & COO* *Jan 2026 – Present*

- Building AI Agent solutions for industrial simulations and manufacturing workflows. Defined product vision and commercialization roadmap; secured **NVIDIA Inception Excellent Startup Certification**; currently in fundraising discussions with strategic investors.
- Driving research in agent reliability for engineering automation (co-authored ICCMS 2026 paper); engaged with Shanghai Lujiazui & Lingang industrial ecosystem.

Independent Game "Solar Flare Line 3" — *Lead Game Designer & Writer* *Jan 2025 – Present*

- Exploring AI-assisted narrative generation and interactive storytelling systems through indie game development; authored 200,000+ words of design documents and scripts as lead writer for a narrative-driven 2D side-scrolling game.

Internship

Wuhan DreamStar Technology Co., Ltd. — *AI Product & Research Lead* *Sep 2025 – Dec 2025*

- Led R&D of Merakku AI digital marketing platform: designed AI content generation pipeline with trend scraping, template generation, and automated distribution; deployed across 2 business lines, reducing operational labor costs and boosting brand exposure.

Transn Yulian Technology Co., Ltd. — *AI R&D Intern* *Sep 2025 – Dec 2025*

- Explored cutting-edge AI applications for enterprise-grade agent "Transn Xiaoyuan": automated prompt optimization, agent frontend UI/UX design, and AI-generated PPT solutions.

Beijing Lingyunshuke Information Technology Co., Ltd. — *Full-stack Engineer (Intern)* *Dec 2025 – Mar 2026*

- Independently delivered a C-end social engineering product from 0 to 1 in one week — requirements, design, full-stack development to deployment.
- Contributed to open-source AI agent platform **AgentBox** (unified API & Web UI for Claude Code, Codex CLI in Docker containers) — a verifiable open-source contribution.

Honors & Awards

- **National Third Prize**, 19th Challenge Cup "Unveiling and Command" Special Competition *Nov 2024*
- **Outstanding Student in Social Engagement**, Wuhan University *Jun 2025*
- **Advanced Individual in Academic Innovation & Entrepreneurship**, Wuhan University *Mar 2025*
- **Ziqiang Cup**: Special Prize and two First Prizes (incl. Judicial Document AI Analysis) *Wuhan University*
- **Runner-up**, NFL University Bowl (National Flag Football League) *Jun 2025*

Skills

- **Research Tools:** SPSS, Stata, Python (pandas, NLP, text mining), MS Office
- **Engineering:** React/Next.js, Node.js, Python, Docker, Redis, PostgreSQL, MongoDB; AI-assisted development with Claude Code across plugin → IDE → CLI toolchain
- **Languages:** Mandarin, English (CET-6 559), Japanese