

YIJIA XIAO

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OBJECTIVE

Seeking to apply my expertise in **reasoning LLMs** and **verifiable agents** along two complementary directions:

I. Engineering: Agent harnesses that steer long-horizon verifiable tasks: specification-driven implementation, deployment, testing, and experimental verification, from deploying research codebases to backtesting quantitative strategies.

II. Research: Self-evolving agents automating the research loop: deep research, structured knowledge-base construction, ideation, and hypothesis calibration, across financial (fundamental and quantitative) and scientific research.

EDUCATION

- **University of California, Los Angeles** Sep. 2022 – Present
Ph.D. Candidate in Computer Science
Los Angeles, CA, USA
 - Advisor: Professor [Wei Wang](#)
- **Tsinghua University** Sep. 2018 – June 2022
Bachelor of Computer Science and Technology
Beijing, China
 - Advisor: Professor [Jie Tang](#)

EXPERIENCE

- **Jump Trading LLC** June 2026 – Sep. 2026
Quantitative Research Intern
Chicago, IL, USA
 - Built automated research systems for alpha mining, generating, validating, and ensembling candidate signals.
 - Researched transformer architectures and reinforcement learning methods for equity trading.
- **Google Cloud AI Research** Jan. 2026 – June 2026
Student Researcher
Sunnyvale, CA, USA
 - Developed FinanceHarness, the layered agent harness automating financial deep research end to end; accepted at EMNLP Findings 2026 (Publication [C.1]).
 - Built FinanceGym, a point-in-time benchmark of 400 expert-validated questions whose rubrics separate pre-cutoff retrieval from post-cutoff reasoning.
- **Point72** June 2025 – Dec. 2025
Quantitative Research Intern
New York, NY, USA
 - Applied LLMs to ingest and process large-scale internal notes (e.g., company earnings), building analytics and signal-generation tools for analysts and portfolio managers.
 - Developed an earnings forecast signal outperforming the production signal in hit rate, correlation, and PnL.
- **Amazon Web Services** June 2024 – Sep. 2024
Applied Scientist Intern
Seattle, WA, USA
 - Developed CSR-Agents, a multi-agent framework toward automated research that deploys CS repositories, calibrating scripts via environment feedback, shell drafting, log analysis, tool use, and issue-database RAG.
 - Built CSR-Bench, the companion benchmark scoring deployment accuracy, efficiency, and script quality across NLP, CV, and ML repositories; Oral at NAACL 2025 Main (Publication [C.2]).
- **Sequoia Capital China** July 2022 – Sep. 2022
Investor Intern
Beijing, China
 - Focused on investments in renewable energy (photovoltaic, hydrogen), AI infrastructure, and AI4Science.
 - Contributed to 20+ deals from Seed to Series B+, spanning market analysis, technical roadmap reviews, due diligence, roadshows, and term sheets.
- **Tsinghua University** Dec. 2020 – Aug. 2021
Project Leader
Beijing, China
 - Led pre-training of the world's **2nd-largest** (2021–2023) Protein LLM, **Wen Su** (\$1.5M funding; 504× NVIDIA V100 32G cluster on a Megatron-LM framework), improving contact-prediction accuracy from 36% to 75%.
 - Adopted by researchers at 30+ institutions; featured on the Wu Dao [Wikipedia page](#) (Publication [C.8]).

I. AGENTIC LLM SYSTEMS

- [C.1] **Yijia Xiao**, Rujun Han, Yanfei Chen, Zifeng Wang, Ke Jiang, Zhongying CuiZhu, Vishy Tirumalashetty, Wei Wang, Burak Gokturk, Tomas Pfister, Chen-Yu Lee. (2026). [FinanceHarness: Autonomous Financial Deep Research Framework](#). In *EMNLP Findings 2026*.
- FinanceHarness automates financial deep research end to end, paired with FinanceGym, a point-in-time benchmark separating pre- from post-cutoff reasoning; lifts an open-weight backbone from 25.3% to 32.4%.
- [T.1] **Yijia Xiao**, Edward Sun, Di Luo, Wei Wang. (2025). [TradingAgents: Multi-Agents LLM Financial Trading Framework](#).
- TradingAgents synthesizes insights across multiple data sources with LLM-based reasoning to generate systematic, interpretable investment decisions aligned with institutional research standards.
- **100K+ Stars** on GitHub; customized and adopted by securities and equity research firms.
- [T.2] **Yijia Xiao**, Edward Sun, Tong Chen, Fang Wu, Di Luo, Wei Wang. (2025). [Trading-R1: Financial Trading with LLM Reasoning via Reinforcement Learning](#).
- Trading-R1 combines supervised and reinforcement fine-tuning to make models financially aware, producing structured, evidence-based decisions.
- Generates structured investment theses that support disciplined and interpretable trading decisions.
- [C.2] **Yijia Xiao**, Runhui Wang, Luyang Kong, Davor Golac, Wei Wang. (2024). [CSR-Bench: Benchmarking LLM Agents in Deployment of Computer Science Research Repositories](#). In *NAACL 2025 (Oral)*.
- CSR-Agents is a multi-agent LLM framework for automated research codebase deployment.
- [C.3] Yiqiao Jin, Qinlin Zhao, Yiyang Wang, Hao Chen, Kaijie Zhu, **Yijia Xiao**, Jindong Wang. (2024). [AgentReview: Exploring Peer Review Dynamics with LLM Agents](#). In *EMNLP 2024 (Oral)*.

II. MULTIMODAL FOUNDATION MODELS FOR SCIENCE

- [C.4] **Yijia Xiao**, Edward Sun, Yiqiao Jin, Qifan Wang, Wei Wang. (2024). [ProteinGPT: Multimodal LLM for Protein Property Prediction and Structure Understanding](#). In *Machine Learning for Genomics, ICLR 2025 (Spotlight)*. In collaboration with Meta AI.
- ProteinGPT integrates protein sequence and structure encoders with an LLM for precise property analysis and structure-aware question answering.
- [C.5] **Yijia Xiao**, Wanxia Zhao, Junkai Zhang, et al., Pan Lu, Xiao Luo, Yu Zhang*, James Zou*, Yizhou Sun*, Wei Wang*. (2025). [Protein Large Language Models: A Comprehensive Survey](#). In *EMNLP 2025*.
- [C.6] Tianyu Liu, **Yijia Xiao**, Xiao Luo, Hua Xu, W. Jim Zheng, Hongyu Zhao. (2023). [Geneverse: A Collection of Open-source Multimodal Large Language Models for Genomic and Proteomic Research](#). In *EMNLP 2024*.
- [C.7] **Yijia Xiao**, Edward Sun, Yiqiao Jin, Wei Wang. (2024). [RNA-GPT: Multimodal Generative System for RNA Sequence Understanding](#). In *Machine Learning for Structural Biology Workshop, NeurIPS 2024*.
- [C.8] **Yijia Xiao**, Jiezhong Qiu, Ziang Li, Chang-Yu Hsieh, Jie Tang. (2021). [Modeling Protein Using Large-scale Pretrain Language Model](#). In *Pretrain Workshop, KDD 2021*. World's **2nd-largest** Protein LLM (2021–2023), *Wen Su*; part of the Wu Dao project, see [Wikipedia page](#).

III. REASONING, POST-TRAINING & EVALUATION

- [C.9] **Yijia Xiao**, Yiqiao Jin, Yushi Bai, Yue Wu, Xianjun Yang, Xiao Luo, Wenchao Yu, Xujiang Zhao, Yanchi Liu, Quanquan Gu, Haifeng Chen, Wei Wang, Wei Cheng. (2023). [PrivacyMind: Large Language Models Can Be Good Privacy Protection Learners](#). In *EMNLP 2024*.
- [C.10] Fang Wu, Xu Huang, Weihao Xuan, Zhiwei Zhang, **Yijia Xiao**, Guancheng Wan, Xiaomin Li, Bing Hu, Peng Xia, Jure Leskovec, Yejin Choi. (2025). [Multiplayer Nash Preference Optimization](#). In *ICLR 2026 (Oral)*.
- [T.3] **Yijia Xiao**, Edward Sun, Wei Wang. (2024). [LogicVista: Multimodal LLM Logical Reasoning Benchmark in Visual Contexts](#).
- [C.11] Wanxia Zhao, Qinwei Ma, Jingzhe Shi, Shirley Wu, Jiaqi Han, **Yijia Xiao**, Si-Yuan Chen, Xiao Luo, Ludwig Schmidt, James Zou. (2025). [PRISM-Physics: Causal DAG-Based Process Evaluation for Physics Reasoning](#). In *ICLR 2026*.
- [C.12] Yushi Bai, Jiahao Ying, Yixin Cao, et al., **Yijia Xiao**, Haozhe Lyu, Jiayin Zhang, Juanzi Li, Lei Hou. (2023). [Benchmarking Foundation Models with Language-Model-as-an-Examiner](#). In *NeurIPS 2023*.

HONORS AND AWARDS

- **Amazon PhD Fellowship**, 2026.
- **Research Excellence Scholarship**, Tsinghua University, 2021.
- **Silver Medal**, International Collegiate Programming Contest (ICPC) Asia East Continent Final, 2020.
- **Gold Medal**, International Collegiate Programming Contest (ICPC) Asia Regional Contest, 2020.
- **First Prize**, Chinese Collegiate Physics Olympiad, 2019.
- **National Bronze Medal**, Chinese Physics Olympiad, 2017.

SELECTED INVITED TALKS

- **Verifiable and Agentic AI for Quantitative Research** Sep. 2025
Jump Trading LLC Chicago, IL, USA
 - Presented Trading-R1, combining supervised fine-tuning and reinforcement learning for investment analysis.
 - Introduced agentic workflows that automate quantitative research and development, scaling researchers' coverage.
- **Agentic AI for Fundamental Research** Oct. 2025
Trivariate Research, L.P. New York, NY, USA
 - Presented agentic systems that scale fundamental equity research coverage.
 - Introduced customizable pipelines that adapt to diverse data sources and encode analysts' priors.
- **TradingAgents: Multi-Agents LLM Financial Trading Framework** Apr. 2025
LLMQuant London, UK
 - Introduced TradingAgents framework for automated trading systems.
 - Demonstrated LLM-based approaches to quantitative finance research.

PROFESSIONAL SERVICES

- **Reviewer**, NeurIPS 2023/2024/2025, ICML 2023/2024, ICLR 2023, EMNLP, NAACL, AACL, AISTATS, ACM Multimedia, PLOS ONE, etc.

RESEARCH INITIATIVE

- **Tauric Research** Mar. 2025 – Present
Founder Los Angeles, CA, USA
 - AI-driven trading intelligence research initiative focusing on financial data analytics and alpha discovery. Ongoing research projects include Agents, Post-Training, Deep Research, and RAG.
 - Established research collaborations with Stanford, UW, and MIT for quantitative research systems and data infrastructure. Leading a team across AI, finance, and systematic trading.
 - Supported by Google Cloud Startups Program and Amazon Web Services Startups Program.

RESEARCH SUPPORT

- My research has been supported by the [Thinking Machines Lab Research Grant](#), [Lambda Research Grant](#), [Google Startup Funding](#), [Amazon Startup Program](#), [NVIDIA Inception](#), and [Jina AI](#).