Keyu (Keaney) Li

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Google Scholar | GitHub | Hugging Face



Profile

- **Research:** LLM pre-training and mid-training; agentic reinforcement learning; multi-agent systems.
- **First-author publications** at **ICLR 2026** and **ACL 2026 (Main Conference)**.
- End-to-end data selection, model training and evaluation pipelines; advanced user of Claude Code and Codex.
- Distributed training on **256+ GPUs**; Ray, Megatron, SGLang, slime, LLaMA-Factory and veRL.
- **3+ years investing in public markets**; independently built quantitative trading systems and traded with real capital in my spare time.

Education

2024 – 2029 **Ph.D. in Computer Science and Technology** (expected 2029)
Shanghai Jiao Tong University & Shanghai Innovation Institute
Advisors: Dequan Wang and Pengfei Liu

2020 – 2024 **B.Sc. in Mathematics and Applied Mathematics, Shanghai Jiao Tong University**
GPA: 4.03/4.3; Rank: 4/45; average: 92.6/100
Shanghai Outstanding Graduate; Guo Chenchen Scholarship

Internship Experience

Xiaohongshu *Research Intern, ACE Top Talent Program* Sep 2026–Present

- Own data pipelines and model post-training for visual coding tasks spanning **web, image, 3D and game** generation.

Tencent WorkBuddy Team *Research Intern* May 2026–Sep 2026

- **Data pipelines:** Built a coding-agent data loop from **6.75M** production trajectories, using task classification, difficulty stratification and capability-gap analysis to curate **3.0M** training candidates and **1.5M** traceable SFT examples.
- **Large-scale training:** Trained a **30B-A3B** model with continued pre-training and SFT over **60B tokens** on **128/256 H200 GPUs**; iterated data mixtures and evaluation on SWE-bench Verified and WorkBuddy Bench, improving core metrics by **5–10%** for downstream deployment.
- **Agentic RL:** Led online RL and on-policy distillation research using veRL/GRPO, self-distillation and trajectory-level credit reweighting across WebShop, Search-QA and ALFWorld with 3B/7B models.

Shanghai Innovation Institute, GAIR Lab May 2025–May 2026

- **AgencyBench: Benchmarking the Frontiers of Autonomous Agents in 1M-Token Real-World Contexts** (**ACL 2026 Main, first author**): Built a long-context agent benchmark; **100+ GitHub stars** and **10K+ Hugging Face downloads**.
- **DatasetResearch: Benchmarking Agent Systems for Demand-Driven Dataset Discovery** (first author, under review): Benchmarked agents' ability to discover, filter and synthesize datasets on demand.
- **Aligned Agents, Biased Swarm: Measuring Bias Amplification in Multi-Agent Systems** (**ICLR 2026, first author**): Showed that complex collaboration can amplify bias; established a baseline for robustness evaluation.

Soochow Securities, FinTech Department *Quantitative Research Intern* Jun 2024–Sep 2024

- Developed **Transformer, CNN and RNN** models on high-frequency China A-share data for equity return prediction; improved the **information coefficient (IC) to approximately 0.24**, supporting **live trading**.