

# Yitong Li

⌚ [github.com/Lyt060814](https://github.com/Lyt060814) ⌚ [yitongli14@gmail.com](mailto:yitongli14@gmail.com)  
✉ [yitongli0814@gmail.com](mailto:yitongli0814@gmail.com) ☎ (+852) 64746910

## RESEARCH INTEREST

My research interests mainly lie in the field of **AI Agent**, and my long-term research vision is to build **proactive agents that can continuously work and learn in a human-like way**, and to apply such agents in **real-world workplace scenarios**. In detail, I am particularly interested in the following concrete research topics:

- **Applied Agent System:** Applying agents in real-world scenarios like deep research, software engineering, computer-using, etc.
- **Test-Time Scaling:** Increasing computation at inference time to improve performance
- **Self-Improving Agent:** Enabling agents to autonomously learn from their own experience, feedback, or failures
- **Multi-Agent Collaboration:** Coordinating multiple agents to solve complex tasks

## EDUCATION

<b>The University of Hong Kong</b> <i>Bachelor of Engineering in Computer Science</i>	09/2024 - 06/2028 (expected) Hong Kong
○ <b>GPA: 4.15/4.3</b> ○ <b>Selected Courses:</b> Introduction to Data structures and Algorithms (A), Computer Programming I/II (A), Computer Organization (A+), Discrete Mathematics (A), Linear Algebra, Probability and Statistics (A+), Calculus and Ordinary Differential Equations (A+), Introductory Quantum Physics (A), Object-oriented Programming and Java, Principles of Operating Systems, Modern Technologies on World Wide Web	

## HONORS

○ <b>Silver Medalist, 39th Chinese Physics Olympiad (CPhO) Finals</b>	10/2022
○ <b>First Prize</b> , 39th Chinese Physics Olympiad (CPhO) Semifinal Round ( <i>top 20 in Shanghai</i> )	09/2022
○ <b>First Prize</b> , 40th Chinese Physics Olympiad (CPhO) Semifinal Round	09/2023
○ <b>First Class Award (Ranked 17th Nationwide)</b> , 19th Pan-Pearl River Delta and Chinese Elite Schools Physics Olympiad ( <i>organized by Hong Kong Physics Olympiad</i> )	02/2023

## EXPERIENCE

<b>Shanghai Changxin Intelligence Technology Co., Ltd.</b> <i>AI Developer Intern</i>	08/2025 - 11/2025 Fudan University, Shanghai
○ Built an <b>end-to-end autonomous agent</b> that scans GitHub repositories, plans deployments, self-recovers from errors with ReAct pattern, and automatically exposes deployed services as APIs. Successfully deployed across <b>50+ repositories (73% success rate)</b> with built-in testing and long-term memory-driven continuous improvement. ○ Developed a <b>Deep Research Agent</b> that automatically decomposes queries, retrieves and filters web sources in parallel, recursively fills knowledge gaps, and synthesizes research reports. [Repo] ○ Built a multimodal AI studio for <b>image/video understanding, generation, and editing</b> using frontier models including Nano Banana, Sora 2, Whisper, CosyVoice, Flux, etc.	

<b>Shanghai Jiahui Elite Education Training Co., Ltd.</b> <i>Teaching Assistant (CPhO)</i>	07/2024 - 08/2024 Shanghai
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- Managed the full lifecycle of a training program for **200+ students**, including problem design, instruction, grading, score analysis, and Q&A support.
- Coached students to achieve top results, with **95%** of all Shanghai First-Prize winners in the National Physics Olympiad coming from the program, and **three** students winning gold medals at **IPhO** and **APhO**.

## PROJECTS

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### Agentic Stacking: Stack small models to approach large model performance

10/2025 - 12/2025

*Personal Project*

[[Repo](#)]

- Built an **automated SLM composition framework** using three-phase pipeline (warm-up, stacking, testing) to search **optimal multi-model hierarchies**, leveraging ReAct agents with forced tool-calling constraints to enable collaborative reasoning among small models (Llama/Qwen/DeepSeek) on **MATH-500** and **GPQA** benchmarks.
- Designed **intelligent caching layer** for Agent\_tool wrappers that achieved **75%** token cost reduction during training through O(1) lookup of repeated inference results.

### AI2Apps: A Distributed PC-Side AI Agent Platform

07/2025 - 11/2025

*Core Contributor, 400+ stars*

[[Repo](#)]

- Improved the **agent infrastructure** of AI2Apps platform, including sandbox for code execution, RAG knowledge base for long-term memory and atomic tools like web search (API & RPA), bash command (brew, conda, git, etc.) and file operation (ReadFile, WriteFile, ModifyFile).
- Enriched **AI application ecosystem** by adding deployable and useful models, including Coqui-TTS, FastVLM, SAM 2, Whisper, etc.

## SKILLS

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### Agent Frameworks

LangChain, LangGraph, OpenAI/Claude Agent SDK, Pydantic AI

### Programming

Python (PyTorch), C/C++, JavaScript, Java, Bash, LaTeX, MatLab

### Tools & Software

Git, Conda, Docker, WSL 2, OpenRouter, Cursor, Claude Code, NotebookLM

### Languages

Mandarin (Native), English (Fluent)