

# Tianshuo Peng

**Tel:** +86 152 251 67693

**Email:** pengtianshuo@link.cuhk.edu.hk

**Homepage:** <https://pengts.github.io>

**Address:** The Chinese University of Hong Kong, Shatin, NT, Hong Kong SAR, China

## EDUCATION

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**Chinese University of Hong Kong, PhD**

**Hong Kong, China**

*Multimedia Lab*

*2025-present*

- Advised by Xiangyu Yue

**Wuhan University, B.S.**

**Wuhan, China**

*Artificial Intelligence, School of Computer Science*

*2021-2025*

- **GPA: 3.95/4.00**    **Rank: 1/51**
- Advised by Zuchao Li and Lefei Zhang

## RESEARCH INTERESTS

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- **Agentic Foundation Models:** Agentic LLMs and VLMs for long-horizon task execution, deep research, and scientific discovery.
- **Reasoning & Interaction Patterns:** Novel reasoning and interaction paradigms for enhanced logical reasoning, planning, and decision-making.
- **Multimodal Models & Representation:** Multimodal reasoning, unified multimodal models, and vision-language representation learning.

## SCHOLARSHIPS AND AWARDS

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- Hong Kong PhD Fellowship Scheme (HKPFS)
- CUHK Vice-Chancellor HKPFS Scholarship
- CCF (China Computer Federation) Elite Collegiate Award (101 students nationwide)
- China National Scholarship (Top 2% nationwide; two-time recipient)
- Outstanding Graduate of Wuhan University (Top 10% schoolwide)

## PROJECT EXPERIENCE

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**Agents-A1: A 35B General Agent Foundation Model for Long-Horizon Tasks**

*Shanghai AI Lab*

- **Core contributor;** led the development of long-horizon search capabilities and full-domain supervised fine-tuning, while contributing deeply across the complete agent-model development lifecycle, including training infra, data construction, and evaluation analysis.
- Official model exceeded **100K downloads** on Hugging Face, while community-derived variants surpassed **300K cumulative downloads**, receiving broad attention and positive feedback from the open-source community.

**InternAgent 1 & 1.5: Closed-loop Multi-agent Framework for Autonomous Research**

*Shanghai AI Lab*

- **Core contributor;** supported autonomous research tasks for vision-language alignment training of vision-language models, as well as autonomous research tasks for an LLM-agent-based self-evolving data framework.
- Designed a unified agent system for end-to-end scientific discovery across computational and empirical science domains, supporting deep research, solution optimization, and long-term memory, and providing a general and scalable technical framework for autonomous scientific discovery.

**CC-mini: Open-source Project**

*Ultra-light Agent Harness*

- Contributed to the development of cc-mini, a lightweight agent harness; the project has received over **1K stars** on GitHub.

## ACADEMIC SERVICE

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- **Invited Talk:** Agentic Training: Retrospective, Current Practices, and Future Opportunities — SLAI / Shanghai AI Laboratory
- **Invited Reviewer:** ICLR, NeurIPS, ACL, EMNLP

## SELECTED PUBLICATIONS

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**Scaling the Horizon, Not the Parameters: Reaching Trillion-Parameter Performance with a 35B Agent** [Tech Report 2026]

- Agents-AI Team, Shanghai AI Lab ([Tianshuo Peng](#), core contributor)

**InternAgent-1.5: A Unified Agentic Framework for Long-Horizon Autonomous Scientific Discovery** [Tech Report 2026]

- InternAgent Team, Shanghai AI Lab ([Tianshuo Peng](#), core contributor)

**Intern-S1-Pro: Scientific Multimodal Foundation Model at Trillion Scale** [Tech Report 2026]

- Intern-S1-Pro Team, Shanghai AI Lab ([Tianshuo Peng](#))

**Exploring Reasoning Reward Model for Agents** [ACL Findings 2026]

- Kaixuan Fan, Kaituo Feng, Manyuan Zhang, [Tianshuo Peng](#), Zhixun Li, Yilei Jiang, Shuang Chen, Peng Pei, Xunliang Cai, Xiangyu Yue

**MME-Reasoning: A Comprehensive Benchmark for Logical Reasoning in MLLMs** [ICML 2026]

- Jiakang Yuan\*, [Tianshuo Peng](#)\*, Yilei Jiang, Yiting Lu, Renrui Zhang, Kaituo Feng, Chaoyou Fu, Tao Chen, Lei Bai, Bo Zhang, Xiangyu Yue (\*Equal contribution)

**Video-R1: Reinforcing Video Reasoning in MLLMs** [NeurIPS 2025]

- Kaituo Feng, Kaixiong Gong, Bohao Li, Zonghao Guo, Yibing Wang, [Tianshuo Peng](#), Junfei Wu, Xiaoying Zhang, Benyou Wang, Xiangyu Yue

**InternAgent: When Agent Becomes the Scientist – Building Closed-Loop System from Hypothesis to Verification** [Tech Report 2025]

- InternAgent Team, Shanghai AI Lab ([Tianshuo Peng](#), core contributor)

**MCP-R1: Generalized Real-World Task Agent Mastering Dozens of Tools** [Preprint]

- [Tianshuo Peng](#), Jiakang Yuan, Zhijie Zhong, Yilei Jiang, Bin Wang, Peng Ye, Tao Chen, Lei Bai, Xiangyu Yue, Bo Zhang

**Chimera: Improving Generalist Model with Domain-Specific Experts** [ICCV 2025]

- [Tianshuo Peng](#), Mingsheng Li, Jiakang Yuan, Hongbin Zhou, Renqiu Xia, Renrui Zhang, Lei Bai, Song Mao, Bin Wang, Aojun Zhou, Botian Shi, Tao Chen, Bo Zhang, Xiangyu Yue

**HiddenDetect: Detecting Jailbreak Attacks against Multimodal Large Language Models via Monitoring Hidden States** [ACL 2025]

- Yilei Jiang, Xinyan Gao, [Tianshuo Peng](#), Yingshui Tan, Xiaoyong Zhu, Bo Zheng, Xiangyu Yue

**Multi-modal Auto-regressive Modeling via Visual Tokens** [ACM MM 2024]

- [Tianshuo Peng](#), Zuchao Li, Lefei Zhang, Hai Zhao, Ping Wang, Bo Du

**A Novel Energy Based Model Mechanism for Multi-Modal Aspect-Based Sentiment Analysis** [AAAI 2024]

- [Tianshuo Peng](#), Zuchao Li, Ping Wang, Lefei Zhang, Hai Zhao

**FSUIE: A Novel Fuzzy Span Mechanism for Universal Information Extraction** [ACL 2023]

- [Tianshuo Peng](#), Zuchao Li, Lefei Zhang, Bo Du, Hai Zhao

## OTHERS

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- **Languages:** Mandarin (Native), English (IELTS: 7.0)
- **Skills:** Python, PyTorch, Deep Learning; proficient in developing and maintaining complex projects using Claude Code and Codex.