

Junteng Liu

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RESEARCH INTERESTS

- My research focuses on natural language processing and machine learning, with particular emphasis on:
- **Agentic LLM & Long-Horizon Reasoning:** Developing long-horizon reasoning web agents
 - **Logical Reasoning & Reinforcement Learning:** Exploring reinforcement learning on verifiable logical reasoning data
 - **Vision-Language Models:** Investigating perception bottlenecks and hallucination issues in LVLMs
 - **LLM Truthfulness & Interpretability:** Understanding the internal mechanisms of truthfulness in large language models

EDUCATION

- 2024 - present **Ph.D. in Computer Science** at Hong Kong University of Science and Technology
Advisor: Prof. Junxian He
Member of HKUST NLP Group
- 2020 - 2024 **B.Eng.** at Shanghai Jiao Tong University (SJTU)

RESEARCH EXPERIENCE

- Research Intern, MINIMAX** Feb 2025 - Feb 2026
– Working on reinforcement learning of large language models, contributing to the MiniMax M1 and M2.x models
- Research Intern, Tencent WXG** Jun 2024 - Sep 2024
– Advisor: Zifei Shan
– Worked on vision-language models and chart understanding
- Research Intern, Shanghai AI Lab** Jun 2023 - Dec 2023
– Advisor: Prof. Yu Cheng
– Conducted research on LLM truthfulness and interpretability

SELECTED PUBLICATIONS

2025

- **Junteng Liu***, Yunji Li*, Chi Zhang, Jingyang Li, Aili Chen, Ke Ji, Weiyu Cheng, Zijia Wu, Chengyu Du, Qidi Xu, Jiayuan Song, Zhengmao Zhu, Wenhui Chen, Pengyu Zhao, Junxian He.
WebExplorer: Explore and Evolve for Training Long-Horizon Web Agents.
arXiv preprint arXiv:2509.06501, 2025. [\[Paper\]](#) [\[Code\]](#)
- **Junteng Liu**, Yuanxiang Fan, Zhuo Jiang, Han Ding, Yongyi Hu, Chi Zhang, Yiqi Shi, Shitong Weng, Aili Chen, Shiqi Chen, Yunan Huang, Mozhi Zhang, Pengyu Zhao, Junjie Yan, Junxian He.
SynLogic: Synthesizing Verifiable Reasoning Data at Scale for Learning Logical Reasoning and Beyond.
Neural Information Processing Systems (NeurIPS 2025). [\[Paper\]](#) [\[Code\]](#)
- **Junteng Liu**, Weihao Zeng, Xiwen Zhang, Yijun Wang, Zifei Shan, Junxian He.
On the Perception Bottleneck of VLMs for Chart Understanding.
EMNLP 2025 Findings. [\[Paper\]](#) [\[Code\]](#)

- Junlong Li, Wenshuo Zhao, Jian Zhao, Weihao Zeng, Haoze Wu, Xiaochen Wang, Rui Ge, Yuxuan Cao, Yuzhen Huang, Wei Liu, **Junteng Liu**, Zhaochen Su, Yiyang Guo, Fan Zhou, Lueyang Zhang, Juan Michelini, Xingyao Wang, Xiang Yue, Shuyan Zhou, Graham Neubig, Junxian He.
The Tool Decathlon: Benchmarking Language Agents for Diverse, Realistic, and Long-Horizon Task Execution.
arXiv preprint arXiv:2510.25726, 2025.
[\[Paper\]](#) [\[Code\]](#)
- MiniMax Team.
MiniMax-M1: Scaling Test-Time Compute Efficiently with Lightning Attention.
arXiv preprint arXiv:2506.13585, 2025.
[\[Paper\]](#) [\[Blog\]](#)

2024

- **Junteng Liu**, Shiqi Chen, Yu Cheng, Junxian He.
On the Universal Truthfulness Hyperplane Inside LLMs.
Conference on Empirical Methods in Natural Language Processing (EMNLP 2024). [\[Paper\]](#) [\[Code\]](#)
- Shiqi Chen, Miao Xiong, **Junteng Liu**, Zhengxuan Wu, Teng Xiao, Siyang Gao, Junxian He.
In-Context Sharpness as Alerts: An Inner Representation Perspective for Hallucination Mitigation.
International Conference on Machine Learning (ICML 2024). [\[Paper\]](#)

2023

- Yuzhen Huang, Yuzhuo Bai, Zhihao Zhu, Junlei Zhang, Jinghan Zhang, Tangjun Su, **Junteng Liu**, Chuancheng Lv, Yikai Zhang, Jiayi Lei, Yao Fu, Maosong Sun, Junxian He.
C-Eval: A Multi-Level Multi-Discipline Chinese Evaluation Suite for Foundation Models.
Neural Information Processing Systems (NeurIPS 2023). [\[Paper\]](#)
- Jinghan Zhang, Shiqi Chen, **Junteng Liu**, Junxian He.
Composing Parameter-Efficient Modules with Arithmetic Operations.
Neural Information Processing Systems (NeurIPS 2023). [\[Paper\]](#)

HONORS & AWARDS

2020-2024 Zhiyuan Honor Scholarship, Shanghai Jiao Tong University