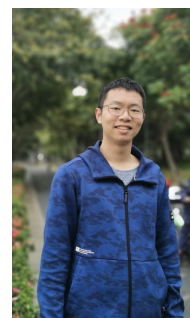


Kewei Lian

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🌐 <https://kevin-lkw.github.io> 🔗 kewei Lian



Education

- 2026.1 – now 📖 **Ph.D in Computer Science, National University of Singapore**
School of Computing, Department of Computer Science
Advised by Prof. Anji Liu
- 2021.9 – 2025.7 📖 **B.Sc. in Computer Science and Technology, Peking University**
School of Electronics Engineering and Computer Science.
Graduated **Summa Cum Laude**

Employment History

- 2024 – 2025 📖 **Internship** Machine Learning Lab, Beijing Institute for General Artificial Intelligence, BIGAI.

Research Publications

Conference Papers

- 1 S. Cai, Z. Wang, **Kewei Lian**, *et al.*, “Rocket-1: Master open-world interaction with visual-temporal context prompting,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.

Arxiv Preprints

- 1 **Kewei Lian**, S. Cai, Y. Du, and Y. Liang, *Toward memory-aided world models: Benchmarking via spatial consistency*, 2025. arXiv: 2505.22976 [cs.CV]. 🔗 URL: <https://arxiv.org/abs/2505.22976>.
- 2 G. Zhao*, **Kewei Lian***, H. Lin, *et al.*, *Optimizing latent goal by learning from trajectory preference*, 2024. arXiv: 2412.02125 [cs.AI]. 🔗 URL: <https://arxiv.org/abs/2412.02125>.

Skills

- Languages 📖 Strong reading, writing and speaking competencies for **English** (TOEFL 106) and **Mandarin Chinese** (Native Speaker).
- Coding 📖 Python, C/C++, $\text{\LaTeX}$, ...
- Mathematics 📖 Mathematical Analysis, Linear Algebra, Probability Theory.
- Misc. 📖 Algorithm, Data structure.

Awards and Achievements

Selected Awards and Achievements

- 2023
 - 📌 **Peking University Second Prize Scholarship**, Peking University
 - 📌 **Merit Student**, Peking University.
- 2022
 - 📌 **Xiaomi Scholarship**, Peking University.
 - 📌 **Award for Academic Excellence**, Peking University.
 - 📌 **First Prize**, The Chinese Mathematics Competitions.
 - 📌 **Second Prize**, Group Programming Ladder Tournament, China Collegiate Computing Contest.
- 2019
 - 📌 **Fist Prize**, National Olympiad in Informatics in Provinces, NOIP.
 - 📌 **Bronze Medal**, 13th Asia-Pacific Informatics Olympiad, APIO.
 - 📌 **Bronze Medal**, China Team Selection, CTS.
- 2018
 - 📌 **Fist Prize**, National Olympiad in Informatics in Provinces, NOIP.

Research Interest

- Interests
 - 📌 **How do humans memorize?** This fundamental question has yet to receive a definitive answer. Despite the remarkable progress of deep learning in language, vision, and embodied intelligence, the design of memory mechanisms remains a critical and unresolved challenge across all these domains. My long-term research goal is to uncover the principles underlying human memory and to use these insights to design more effective memory architectures for deep learning models.