

Yanlin Li

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Research Interests: Omni Foundation Models, Unified Understanding and Generation, Human-centered AGI

EDUCATION

- **National University of Singapore** Aug 2026 - Present
Ph.D. in Computer Science (Incoming) Singapore
- **National University of Singapore** Aug 2024 - Jun 2026
Master of Computing (Artificial Intelligence Specialization) Singapore
- **Shandong University** Sep 2020 - Jun 2024
B.Eng in Software Engineering (Artificial Intelligence Track) Jinan, China

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, W=WORKSHOP, R=UNDER REVIEW

- [C.1] **Yanlin Li**, Minghui Guo, Kaiwen Zhang, Shize Zhang, Yiran Zhao, Haodong Li, Congyue Zhou, Weijie Zheng, Yushen Yan, Shengqiong Wu, Wei Ji, Lei Cui, Furu Wei, Hao Fei, Mong-Li Lee, Wynne Hsu. **UniM: A Unified Any-to-Any Interleaved Multimodal Benchmark**. In *CVPR 2026 Main (CCF-A)*. [Paper]
- [C.2] **Yanlin Li**, Hao Liu, Huimin Liu, Yinwei Wei, Yupeng Hu. **MIST: Towards Multi-dimensional Implicit Bias Evaluation of LLMs for Theory of Mind**. In *CogSci 2026, & ToMLLM@IJCAI 2025 (CCF-B)*. [Paper]
- [C.3] **Yanlin Li**, Ning Chen, Guangrong Zhao, Yiran Shen. **KD-Eye: Lightweight Pupil Segmentation For Eye Tracking on VR Headsets via Knowledge Distillation**. In *WASA 2024 (CCF-C)*. [Paper]
- [C.4] Xudong Han, Kai Liu, **Yanlin Li**, Hao Li, Zheng Wang. **The ACM Multimedia 2025 Grand Challenge of Truthful and Responsible Multimodal Learning**. In *ACM MM 2025 Grand Challenge*. [Paper]
- [R.1] Ziming Cheng, Binrui Xu, Lisheng Gong, Zuhe Song, Tianshuo Zhou, Shiqi Zhong, Siyu Ren, Mingxiang Chen, Xiangchao Meng, Yuxin Zhang, **Yanlin Li**, Lei Ren, Wei Chen, Zhiyuan Huang, Mingjie Zhan, Xiaojie Wang, Fangxiang Feng. **Evaluating MLLMs with Multimodal Multi-image Reasoning Benchmark**. In *Arxiv 2025*. [Paper]

EXPERIENCE

- **Centre for Trusted Internet and Community, National University of Singapore** Dec 2024 - Present
Research Assistant, advised by Prof. Mong-Li Lee and Prof. Wynne Hsu and Dr. Hao Fei Singapore
- **IGIP Lab, Shandong University** Oct 2022 - Jun 2024
Research Assistant, advised by Prof. Yiran Shen Jinan, China

RESEARCH PROJECTS

- **NExT-GPT v2: Improved Any-to-Any Multimodal LLM** Apr 2026 - Present
 - Support any-to-any understanding and generation across text, image, video, audio, 3D.
 - Enhance unified multimodal instruction following and cross-modal generation quality under interleaved input-output settings.
- **Modeling Realistic Multimodal Interleaved Misinformation Interaction Sequence** Apr 2026 - Present
 - Construct a realistic multimodal misinformation benchmark modeling interleaved user interactions across text, image, video, and audio.
 - Design misinformation interaction sequences with mixed factual, misleading, and corrective evidence to evaluate multimodal reasoning reliability.
- **End-to-End Unified Vision Editing Model** Mar 2026 - Present
 - Develop an end-to-end unified vision editing model across image / video / 3D modalities.
 - Support multiple editing tasks including text-guided and reference-based editing.
- **Agents Reveal How Cognitive Dissonance Drives Collapse of Epidemic Compliance** Nov 2025 - Present
 - Develop an agent-based simulation framework for modeling Omicron transmission dynamics in Hong Kong.
 - Design population-level interaction and disease transmission mechanisms for realistic epidemic simulation.
 - Reveal emergent behaviors aligned with real-world epidemic trends, validating the effectiveness of modeling.
- **Benchmarking Unified Any-to-Any Interleaved Multimodal Learning** Jan 2025 - Nov 2025
 - Propose the first unified any-to-any interleaved multimodal benchmark UniM, containing 31K instances and 7 representative modalities: text, image, audio, video, document, code and 3D.
 - Design the UniM Evaluation Suite assesses models along three dimensions under any-to-any setting: Semantic Correctness & Generation Quality, Response Structure Integrity, and Interleaved Coherence.
 - Introduce a unified any-to-any interleaved multimodal agentic model UniMA serves as the baseline.
- **Multi-dimensional Implicit Bias Evaluation of LLMs for Theory of Mind** Aug 2024 - Dec 2024

- Propose MIST, a ToM-driven framework for evaluating implicit bias in LLMs under three psychological dimensions: competence, sociability and morality.
- Design two indirect evaluation tasks (WABT and AAT) to reveal latent stereotypes without triggering explicit safety-aligned responses.
- **Lightweight Pupil Segmentation for Eye Tracking via Knowledge Distillation** Oct 2022 - Jan 2023
 - Design from Area-of-Interest exaction to Coarse segmentation strategy and KD-refined segmentation.
 - Maintain accuracy on par with that of baseline but consumed only 1-2% computation resources.
 - Achieve processing rate about 160fps which is over 240 times faster than competing approach.

HONORS AND AWARDS

- **NUS GRTII Master's Scholarship (SGD 45,000) (*voluntarily declined*)** Aug 2024
NUS Guangzhou RTII
- **Meritorious Winner** May 2024
The Interdisciplinary Contest in Modeling (ICM)
- **Outstanding Graduate (Undergraduate)** Jan 2024
Shandong University
- **Second Prize (RMB 10,000)** Nov 2023
2023 Summer Intel oneAPI Campus Hackathon Competiton
- **Third Academic Scholarship** Oct 2023/2022
Shandong University
- **First/Second Specialty Scholarship** Oct 2023/2022
Shandong University
- **Second Prize (top 0.66%)** May 2022
The 12th National Student Market Research and Analysis Competition National Final
- **Second Prize** Jan 2022
2021 Asia and Pacific Mathematical Contest in Modeling

SKILLS

- **Programming Languages & Tools:** Python, Java, HTML&CSS&JS, Vue, Git, Linux, SpringBoot, Flask
- **AI & Machine Learning:** PyTorch, vLLM, TensorFlow
- **Languages:** Chinese (Native), English (Fluent, CET-4 / CET-6 / IELTS 6.5)

SERVICE

- **Reviewer**
 - ECCV 2026, ACL ARR 2026, ACM MM 2025/2026, AAAI 2026, CogSci 2026, IJCNN 2025/2026, ICIC 2025/2026
 - Neurocomputing
- **Workshop & Chanllege Organizer**
 - (A2A-MML) Workshop On Any-to-Any Multimodal Learning @ CVPR 2026
 - (ResMM) Truthful and Responsible Multimodal Learning Challenge @ ACM MM 2025