

# Yiwei Liu

Telephone

+86 18180876377

Email

ywliu@smail.nju.edu.cn/lsnmldb@gmail.com

Website

personal page/openreview

## Education

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### Nanjing University

2021.9 - 2025.6

- Bachelor of Computer Science and Technology
- GPA: 4.63 / 5.00 (Top 2.3%)

### Nanjing University

2025.9 - 2028.6

- Master of Computer Science and Technology

## Rewards

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- National Scholarship (2024).
- People's Scholarship First Prize (2023).
- Yangtze River Alumni Scholarship (2022).
- Outstanding Student of Freshman College, Nanjing University (2022).

## Research Experience

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- **LogiNumSynth: Synthesizing Joint Logical-Numerical Reasoning Problems for Language Models**

Yiwei Liu, Yucheng Li, Xiao Li, Gong Cheng

- **FormulaReasoning: A Dataset for Formula-Based Numerical Reasoning**

Xiao Li, Bolin Zhu, Kaiwen Shi, Sichen Liu, Yin Zhu, Yiwei Liu, Gong Cheng

## Internship Experience

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### Qiyuan Lab

2025.6 – 2025.9

- Developed a large-scale multimodal model evaluation system.
- Benchmarked 15 open-source multimodal models (e.g., Qwen, LLaVA, mPLUG-Owl, InternVL).
- Implemented robustness evaluation with 11 adversarial attacks, 5 perturbation methods, and 4 defense strategies.

### Tencent IEG – TiMi Studio Group

2024.8 – 2024.10

- Built an intent recognition system for AI game characters using LLM-synthesized data.
- Designed a hybrid model combining rule-based methods and two-stage classification.
- Deployed the system in Unreal Engine with C++ integration, achieving 99% accuracy.

## Projects

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- **Scheme Interpreter** Developed a Python interpreter for a Scheme language subset, implementing lexical analysis, parsing, and evaluation.
- **Tai-e Simplified** Built a simplified version of Tai-e, a static analysis framework for Java.
- **NEMU (i386 Hardware Emulator)** and **MinOS** Constructed an emulator simulating i386 hardware-level operations and designed a simplified operating system with concurrency support and file systems.

# 刘艺葳

电话+86 18180876377  
邮箱ywliu@smail.nju.edu.cn/lsmldb@gmail.com  
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## 教育背景

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|-------------------------------|-----------------|
| 南京大学                          | 2021.9 - 2025.6 |
| • 计算机科学与技术本科                  |                 |
| • GPA: 4.63 / 5.00 (Top 2.3%) |                 |
| 南京大学                          | 2025.9 - 2028.6 |
| • 计算机科学与技术硕士                  |                 |

## 获奖情况

- 2024 年国家奖学金
- 2023 年人民奖学金一等奖
- 2022 年长江苏友奖学金
- 2022 年南京大学新生学院优秀学生

## 研究经历

|                                     |                  |
|-------------------------------------|------------------|
| 启元实验室                               | 2025.6 - 2025.9  |
| • 参与大规模多模态模型评测系统开发。                 |                  |
| • 支持 15 个开源多模态模型的系统化评测。             |                  |
| • 实现多种对抗攻击、扰动与防御模块，用于模型鲁棒性分析。       |                  |
| 腾讯 IEG -天美工作室群                      | 2024.8 - 2024.10 |
| • 基于 LLM 合成数据构建游戏角色意图识别系统。          |                  |
| • 设计结合规则方法与两阶段分类的混合模型架构。            |                  |
| • 在 Unreal Engine 中完成部署，系统准确率达 99%。 |                  |

## 项目经历

- **Scheme 解释器** 开发了一个用于 Scheme 语言子集的 Python 解释器，实现了词法分析、语法解析和求值。
- **Tai-e 简化版** 构建了 Tai-e 的简化版本，一个用于 Java 的静态分析框架。
- **NEMU (i386 硬件模拟器)** 和 **MinOS** 构建了一个模拟 i386 硬件级别操作的模拟器，并设计了一个支持并发和文件系统的简化操作系统。