林子越

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教育经历

香港大学 | 人工智能，数学学院 | 硕士研究生　　　　　　　　　　　　2024.09—2026.01（预计）
　GPA: 3.7/4.0，主要研究方向为多模态生成，机器学习可解释性，指导老师屈靓琼

加州大学洛杉矶分校 | 访问学生　　　　　　　　　　　　　　　　　　2023.12—2024.04
　GPA: 3.5/4.0，联合培养项目，冬季访问学生

香港中文大学（深圳） | 数据科学与大数据技术，数据科学学院 | 理学学士　　2020.09—2024.06
　GPA: 3.5/4.0，获 2022-2023，2023-2024 年度数据科学学院院长嘉许奖

论文

- Xing Xie, Jiawei Liu, **Ziyue Lin**, Huijie Fan, Zhi Han, Yandong Tang, Liangqiong Qu. Unleashing the Potential of Large Language Models for Text-to-Image Generation through Autoregressive Representation Alignment. **预印版本已提交至 Arxiv 并投稿 ICCV2025**。 [链接]
- Wentao Ge, Shunian Chen, Guiming Chen, Junying Chen, Zhihong Chen, Shuo Yan, Chenghao Zhu, **Ziyue Lin**, Wenya Xie, Xidong Wang, Anningzhe Gao, Zhiyi Zhang, Jianquan Li, Xiang Wan, Benyou Wang. MLLM-Bench: Evaluating Multimodal LLMs with Per-sample Criteria. **该论文被 NAACL2025 主会接收**。 [链接]

工作经历

北京博思财信网络科技有限公司 | 视觉算法实习生　　　　　　　　　　2024.06—2024.08
- 负责每日的数据预处理和清洗，并定期更新迭代以 YOLOv5 为基础的目标检测模型。
- 使用 logit 蒸馏和特征蒸馏优化了 YOLOv5 模型，以提高推理速度，同时保持性能。确保了学生模型在参数量仅为教师模型三分之一的情况下，推理准确率超过原有模型的 90%。
- 利用标注数据和开源代码复现了一个旋转物体检测模型，用于球场位置检测。

百丽国际控股有限公司 | 数据分析实习生　　　　　　　　　　　　　2023.06—2023.08
- 使用 MySql 分析日常运营数据，监控埋点，追踪销售热点。
- 使用百度 PaddlePaddle 系统进行服装图像分割和收集，为神经网络训练提供数据，用于实现高精度的服装图像分类和相似度计算。

项目经历

自回归生成模型优化 | 指导老师：屈靓琼　　　　　　　　　　　　　2024.10—2025.02
- 协助提出了一个新的训练框架，通过注入来自前沿编码器的知识来优化自回归生成模型的效果。
- 收集了大量医疗数据集用于实验，包括眼部数据集，胸部 X 光数据集和脑部核磁共振数据集。
- 在自然图像和开源的自回归模型上进行了多次实验，证明该框架可以优化生成效果并帮助撰写论文。

医疗大模型仓库维护 | 指导老师：王本友　　　　　　　　　　　　　2023.09—2024.05
- 收集了医疗大语言模型领域的最新研究、数据集和前沿模型，并持续更新了一个在 GitHub 上拥有超过 2200 颗星的代码库，以展示这些研究数据。[链接]

生成对抗网络优化 | 深度学习课程项目　　　　　　　　　　　　　　2023.03—2023.05
- 设计了一个创新模型，通过结合 VAE 结构提升了 GAN 的性能，并成功使用 PyTorch 实现了该模型。
- 在 MNIST 和 CelebA 数据集上进行了训练，相比原有的 GAN 模型，训练时间减少了 80%，同时保持了输出图像的高质量。[链接]

技能和语言

- 熟练掌握 Pytorch 和深度学习相关的库，熟悉 linux 指令和远程 ssh 工作站搭建，有模型训练和微调经验。
- 托福 106 分，GRE 321 分，六级 557 分，适应全英文教学和工作环境。

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Education

University of Hong Kong   Sep. 2024 – Jun. 2026
Master of Science in Artificial Intelligence   *Hong Kong*

- **Cumulative GPA:** 3.67
- **Supervisor:** Liangqiong Qu
- **Research Interest:** Multi-modal large language models, interpretability

The Chinese University of Hong Kong, Shenzhen   Sep. 2020 – Jun. 2024
Bachelor of Science in Data Science and Big Data Technology   *Shenzhen, China*

- **Cumulative GPA:** 3.44 (50/172)
- **Awards:** Dean's List from School of Data Science, 2022 Mathematical Contest in Modeling
- **Courses**: *Probability and Statistics, Advanced Machine Learning, Database System, Data Structures, Stochastic Processes, Bayesian Statistics, Simulation(Postgraduate Course)*

Skills Summary

Programming Languages: Python (PyTorch, Pandas, Sklearn, etc.), Java, R, SQL, MATLAB
Software & Platform: Linux, Git, MySQL, IDE, Microsoft Office
Languages: English(TOEFL:106, GRE:321, CET-6:557), Chinese(native)

Publications & Preprints

- Xing Xie, Jiawei Liu, **Ziyue Lin**, Huijie Fan, Zhi Han, Yandong Tang, Liangqiong Qu. Unleashing the Potential of Large Language Models for Text-to-Image Generation through Autoregressive Representation Alignment **Preprint at Arxiv:2503.07334 and submitted to ICCV 2025. [Link]**

- Wentao Ge, Shunian Chen, Guiming Chen, Junying Chen, Zhihong Chen, Shuo Yan, Chenghao Zhu, **Ziyue Lin**, Wenya Xie, Xidong Wang, Anningzhe Gao, Zhiyi Zhang, Jianquan Li, Xiang Wan, Benyou Wang. MLLM-Bench: Evaluating Multimodal LLMs with Per-sample Criteria. **Preprint at Arxiv:2311.13951 and accepted by NAACL 2025. [Link]**

Internships

Beijing Boss Software CORP.   Jun. 2024 – Aug. 2024
AI Engineer Intern   *Beijing, China*

- Optimized the YOLOv5 model using both logit distillation and feature distillation to improve inference speed while maintaining performance. Ensured over 90% inference accuracy with a student model that has only one-third of the teacher model's parameters.
- Managed daily data preprocessing and cleaning, and updated the YOLOv5 detection model regularly.
- Trained a court keypoint detection model using ResNet-18 as the base and reproduced a rotated object detection model using labeled data and online repositories for court location detection.
- Optimized the YOLOv5 detection model using INT8 quantization, cutting inference time by half while maintaining approximately 85% accuracy.

Shenzhen Research Institute of Big Data   Sep. 2023 – Dec. 2023
Research Assistant   *Shenzhen, China*

- Collected the latest research, datasets and cutting-edge models in the field of medical large language models, updating a repository on GitHub with **1.8k stars** to showcase these research data. [**Link**]

Belle International Holdings Limited   Jun. 2023 – Aug. 2023
Data Analysis Intern   *Shenzhen, China*

- Orchestrated the development of an AI-driven feature in the internal software, implemented **CNN algorithms** for highly accurate clothing image classification and similarity calculation.
- Used Baidu PaddlePaddle system for clothing image segmentation and collection, providing data for neural network training.

Projects

Machine Learning Project: Accelerate Generative Models Using VAE   **Mar. 2023 – May. 2023**

Project Leader

- Designed an innovative model that improves basic-GAN performance by incorporating VAE structures and successfully implemented it using PyTorch.
- Conducted training on the MNIST and CelebA datasets, leading to an 80% reduction in training time compared to the basic-GAN, all while preserving the high quality of output images. [**Link**]

Business Analytics Project: Why Kickstarter Campaigns Fail?   **Nov. 2022 – Dec. 2022**

Project Leader

- Conducted exhaustive data collection on nearly 10,000 crowdfunding projects using a custom-built crawler, aiming to identify factors affecting Kickstarter's low success rates.
- Employed K-means clustering for a nuanced classification of crowdfunding projects, and gauged feature importance through logistic regression and decision tree models.