Yanshu Li

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Education

Brown University, MS in Computer Science

Sept 2024 – present

- GPA: 4.0/4.0
- Core Modules: Machine Learning, Natural Language Processing, Self-supervised Learning Soochow University, China Mainland, BS in Artificial Intelligence Sept 2020 - June 2024
- GPA: 3.8/4.0 (top 5%), TOEFL:107, GRE:332
- Core Modules: Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Vision, Large Language Model

Publications

Unlock the Power of Cross-modality In-context Learning for Large Vision-language Models

Oct 2024

Yanshu Li, Jianwen Luo, Wenquan Lu

NAACL 2025 Main (Short paper)

ConflictBank: A Benchmark for Evaluating Knowledge Conflicts in Large Language Models

Sept 2024

Zhaochen Su, Jun Zhang, Xiaoye Qu, Tong Zhu, Yanshu Li, Jiashuo Sun, Juntao Li, Min Zhang, Yu Cheng

MEDAIDE: Towards an Omni Medical Aide via Specialized LLM-based **Multi-Agent Collaboration**

Jan 2025

Jinjie Wei, Dingkang Yang, Yanshu Li, Qingyao Xu, Zhaoyu Chen, Mingcheng Li, Yue Jiang, Xiaolu Hou, Lihua Zhang

ICML 2025 (In Submission)

Research Experience

Research on multimodal in-context learning, Brown University

July 2024 - Present

- Explore the in-context learning mechanisms of multimodal large models by investigating their internal workflows, focusing on the impact of external knowledge on transformers' internal attention and hidden layers.
- Enhance the in-context learning capabilities of LLMs and MLLMs by optimizing in-context demonstration selection, leveraging chain-of-thought (CoT) reasoning, and strengthening modality alignment.

Research on equipping LLMs with human-level temporal reasoning and commonsense, Soochow University

June 2023 – Present

• Focus on the mechanisms behind LLMs degradation in time and exploring the strategies to improve temporal generalization and update the knowledge without catastrophic forgetting of old knowledge.

Research on sentiment analysis based on language models in human-centered

July 2022 - Nov 2022

NLP, Summer Intern, Nanyang Technological University, Singapore

• Design efficient methods to process large-scale social text data using LM and LLM and analyze the results to provide feedback, seeking high-quality solutions for social issues.

Projects

Google-Fast or Slow? Predict AI Model Runtime

Silver Medal (top 4%)

• Developed a Graph Convolutional Network (GCN) model with embedding encoding for discrete attributes and ListMLE loss for training to address sorting-related challenges. Enhanced model performance through weighted fusion of multiple models to reduce bias and improve robustness.

Kaggle-LLM Science Exam

Bronze Medal (top 7%)

• Employed a sentence vector approach to extract the most similar original text based on prompt similarity for better question references. Developed a reading comprehension model with novel linguistic approach.