LIDA CHEN

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BIOGRAPHY

Lida Chen (陈立达) is a second year Ph.D candidate at Fudan University in the School of Computer Science. His interested research topics are mostly around **long context models**, including (but are not limited to):

- **Long-Context LLMs**: Aiming to enable LLMs to efficiently and effectively process extremely long inputs, reducing the deployment cost of 1M-context production-level transformers to be as affordable as 4K models. This involves integrating techniques such as long-term memory mechanisms, sparse attention, and KV cache compression, among others, into LLMs.

- **Video Language Models**: Improving long video understanding capabilities of multi-modal large language models (MLLMs). This involves building datasets for long video understanding, developing vision language connectors for lossless compression of video features, and creating efficient model frameworks for processing long videos.

EDUCATION

Fudan University   2023 – 2028 (estimated)
Ph.D. in School of Computer Science   *Shanghai*
- Advisor: Yanghua Xiao
- Topics: Long-Context Models

Fudan University   2020 – 2023
Second Major in School of Economics   *Shanghai*

Fudan University   2019 – 2023
*B.S. in School of Computer Science (graduated with **honors**)*   *Shanghai*
- Advisor: Yanghua Xiao
- Topics: Retrieval-Augmented Generation

EXPERIENCE

Knowledge Works Laboratory at Fudan University   Sep 2023 – Present
Student Researcher   *Shanghai*
- Responsibilities: Work on long-context models.

Ant Group   Aug 2023 – Aug 2024
Research Intern   *Shanghai*
- Responsibilities: Work on mitigating hallucinations in Large Language Models.

ACM Competition Team at Fudan University   Dec 2021 – Jun 2023
Team Member   *Shanghai*
- Responsibilities: Served as the captain of the school's fourth team.

SELECTED AWARDS

Honor Student Award in Computer Science of Top Talent Undergraduate Training Program   Jun 2023
Huawei Scholarship   Oct 2022
Second Prize of Computer System Development Capability Competition (Compiler Track)   Oct 2022

SELECTED PUBLICATIONS

[*: Equal Contribution]

[1] **Teaching Large Language Models to Express Knowledge Boundary from Their Own Signals**
Lida Chen, Zujie Liang, Xintao Wang, Jiaqing Liang, Yanghua Xiao, Feng Wei, Jinglei Chen, Zhenghong Hao, Bing Han, Wei Wang
Preprint, 2024.

[2] **SurveyAgent: A Conversational System for Personalized and Efficient Research Survey**
Xintao Wang*, Jiangjie Chen*, Nianqi Li, **Lida Chen**, Xinfeng Yuan, Wei Shi, Xuyang Ge, Rui Xu, Yanghua Xiao
Preprint, 2024.

[3] **From Persona to Personalization: A Survey on Role-Playing Language Agents**
Jiangjie Chen*, Xintao Wang*, Rui Xu*, Siyu Yuan*, Yikai Zhang*, Wei Shi*, Jian Xie*, Shuang Li, Ruihan Yang, Tinghui Zhu, Aili Chen, Nianqi Li, **Lida Chen**, Caiyu Hu, Siye Wu, Scott Ren, Ziquan Fu, Yanghua Xiao
Preprint, 2024.

[4] **Refining Domain Retrieval-Augmented Generation with Sparse-Dense Hybrid and Multi-granularity Retrieval**
Yuelong Xu, Xintao Wang, **Lida Chen**, Jiaqing Liang, Deqing Yang, Yanghua Xiao, Fei Yu
Preprint, 2024.