

LEI LI

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🎓 EDUCATION

The University of Hong Kong, SAR, Hong Kong 2023.09 – Now

PhD candidate in Computational Linguistics

Advisor: Prof. Qi Liu & Prof. Lingpeng Kong

Peking University, Beijing, China 2020.09 – 2023.06

Master student in Computational Linguistics

Advisor: Prof. Xu Sun, GPA: 3.6/4.0, **National Scholarship Winner**

Xidian University, Shaanxi, China 2016.09 – 2020.06

B.Sc. in Software Engineering

GPA: 94.2 (Ranking 1 / 448), English: CET-6 638, **National Scholarship Winner**

👤 EXPERIENCE

Reka AI 2023.07 – 2023.12

Multi-modal LLM R&D Intern Mentor: Qi Liu & Dani Yogatama

Shanghai AI Lab 2022.07 – 2023.06

Research Intern Mentor: Jingjing Xu

Toutiao Search, ByteDance 2021.12 – 2022.06

Search Algorithm Intern Mentor: Jiacheng Zhang & Chao Qiao

Wechat AI, Tencent 2020.04 – 2021.11

NLP Research Intern Mentor: Peng Li & Yankai Lin

📖 SELECTED PUBLICATIONS

M³IT: A Large-Scale Dataset towards Multi-Modal Multilingual Instruction Tuning

- **Lei Li**, Yuwei Yin, Shicheng Li, Liang Chen, Peiyi Wang, Shuhuai Ren, Mukai Li, Yazheng Yang, Jingjing Xu, Xu Sun, Lingpeng Kong, Qi Liu.

Can Language Models Understand Physical Concepts?

- **Lei Li**, Jingjing Xu, Qingxiu Dong, Ce Zheng, Xu Sun, Lingpeng Kong, Qi Liu
- EMNLP 2023

Distributional Correlation-Aware Knowledge Distillation for Stock Trading Volume Prediction

- **Lei Li**, Zhiyuan Zhang, Ruihan Bao, Keiko Harimoto, Xu Sun.
- ECML-PKDD 2022 (Oral)

Dynamic Knowledge Distillation for Pre-trained Language Models

- **Lei Li**, Yankai Lin, Shuhuai Ren, Peng Li, Jie Zhou, Xu Sun.
- EMNLP 2021 (Oral)

CascadeBERT: Accelerating Inference of Pre-trained Language Models via Calibrated Complete Models Cascade

- **Lei Li**, Yankai Lin, Deli Chen, Shuhuai Ren, Peng Li, Jie Zhou, Xu Sun.
- Findings of EMNLP 2021

From Mimicking to Integrating: Knowledge Integration for Pre-trained Language Models

- **Lei Li**, Yankai Lin, Xuancheng Ren, Guangxiang Zhao, Peng Li, Jie Zhou, Xu Sun.
- Findings of EMNLP 2022.

Enhancing Topic-to-Essay Generation with External Commonsense Knowledge

- Pengcheng Yang*, **Lei Li*** (Equal Contribution), Fuli Luo, Tianyu Liu, Xu Sun.
- ACL 2019

Alleviating the Knowledge-Language Inconsistency: A Study for Deep Commonsense Knowledge

- Yi Zhang*, **Lei Li*** (Equal Contribution), Yunfang Wu, Qi Su, Xu Sun.
- IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)

Leveraging Word-Formation Knowledge for Chinese Word Sense Disambiguation

- Hua Zheng*, **Lei Li*** (Equal Contribution), Damai Dai, Deli Chen, Tianyu Liu, Xu Sun, Yang Liu.
- Findings of EMNLP 2021 (Short Paper)

A Survey for In-context Learning

- Qingxiu Dong, **Lei Li**, Damai Dai, Ce Zheng, Zhiyong Wu, Baobao Chang, Xu Sun, Jingjing Xu, Zhifang Sui
- Pre-print

Large language models are not fair evaluators

- Peiyi Wang, **Lei Li**, Liang Chen, Zefan Cai, Dawei Zhu, Binghuai Lin, Yunbo Cao, Qi Liu, Tianyu Liu, Zhifang Sui
- Pre-print

PROFESSIONAL SERVICES

Program Committee (Reviewer):

CVPR 2024, ICLR 2024, NeurIPS 2023, ACL 2019-2023, EMNLP 2019-2023, ECML-PKDD 2022

Teaching Assistant:

- Computational Linguistics (PKU 2021 Fall)
- Machine learning in trading and finance (COMP7409A, HKU 2023 Fall)

PROJECTS

Multi-Modal Instruction Tuning Dataset (35k downloads)

Multi-modal multilingual instruction tuning dataset with 400 manually written instructions covering 40 tasks.

Hip-pop GAN (100+ stars)

Chinese lyrics generation with modified SeqGAN for rhymed hip-pop lyrics.

Awesome Efficient PLMs (70+ stars)

Paper list for techniques to improve the training and inference efficiency of pre-trained language models.

HONORS AND AWARDS

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| <i>National Scholarship</i> , Ministry of Education | 2022.10 |
| <i>Merit Student</i> , Peking University | 2022.10 |
| <i>Special Academic Scholarship</i> , Peking University | 2021.10 |
| <i>National Scholarship</i> , Ministry of Education | 2019.11 |
| <i>Best Demo Award</i> , DeeCamp 2018, Peking University & Sinovation Ventures | 2018.08 |