Miao Li

Ph.D. Candidate
The University of Melbourne, Parkville, Australia
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https://oaimli.github.io/

EDUCATION BACKGROUND

Visiting Ph.D. **The University of Edinburgh** Mar. 2024 – Present
Institute for Language, Cognition and Computation
Supervised by Prof. Mirella Lapata

Ph.D. **The University of Melbourne** Dec. 2020 – Present
School of Computing and Information Systems
Supervised by Prof. Eduard Hovy and Dr. Jey Han Lau

M.S. **Chinese Academy of Sciences** Aug. 2017 – July 2020
Institute of Software, Chinese Academy of Sciences GPA 88.31/100 (6^{th}/102)

B.S. **Northeastern University** Aug. 2013 – July 2017
School of Computer Science and Technology GPA 88.75/100 (9^{th}/272)

RESEARCH INTRERESTS

- Multi-document Processing: Enabling computers to reason over and synthesize dispersed information from multiple documents, e.g., synthesizing insights from multiple research articles
- Natural Language Reasoning: Developing advanced language models with reasoning capabilities to output verifiable generations contextually aligned well with given sources with supporting evidence
- Evaluation of Generative AI: Designing effective and efficient evaluation methodologies to assess real-world capabilities of AI, particularly generative models

TECHNICAL SKILLS

- Proficient with the workflow of problem formulation, data curation, modelling and evaluation for natural language generation (NLG)
- Experienced in post-training and experimenting with large language models (LLMs) particularly for tasks involving long and complex contexts
- Familiar with programming in Python and PyTorch, and utilizing frameworks for LLMs (e.g., Transformers and Accelerate)
- Solid understanding of natural language processing (NLP), deep learning (DL) and fundamental statistical machine learning (ML)

RESEARCH PUBLICATIONS

- Decomposed Opinion Summarization with Verified Aspect-Aware Modules ACL'25
  Miao Li, Jey Han Lau, Eduard Hovy, Mirella Lapata
  Findings of the Association for Computational Linguistics: ACL 2025.
- NewsBench: A Systematic Evaluation Framework for Assessing Editorial Capabilities of Large Language Models in Chinese Journalism ACL'24

Miao Li, Ming-Bin Chen, Bo Tang, Shengbin Hou, Pengyu Wang, Haiying Deng, Zhiyu Li, Feiyu Xiong, Keming Mao, Peng Cheng, and Yi Luo

Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics

- A Sentiment Consolidation Framework for Meta-Review Generation — ACL'24

  Miao Li, Jey Han Lau, Eduard Hovy

  Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics

- Summarizing Multiple Documents with Conversational Structure for Meta-review Generation — EMNLP'23

  Miao Li, Eduard Hovy, Jey Han Lau

  Findings of the Association for Computational Linguistics: EMNLP 2023

- DeltaScore: Fine-grained Story Evaluation with Perturbations — EMNLP'23

  Zhuohan Xie, ***Miao Li***, Trevor Cohn, Jey Han Lau

  Findings of the Association for Computational Linguistics: EMNLP 2023

- Compressed Heterogeneous Graph for Abstractive Multi-document Summarization — AAAI'23

  Miao Li, Jianzhong Qi, Jey Han Lau

  Proceedings of the 37th AAAI Conference on Artificial Intelligence

- Personalized Abstractive Opinion Tagging — SIGIR'22

  Mengxue Zhao, Yang Yang, ***Miao Li***, Jingang Wang, Wei Wu, Pengjie Ren, Maarten de Rijke and Zhaochun Ren

  Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval

- A Benchmark and Comprehensive Survey on Knowledge Graph Entity Alignment via Representation Learning — VLDBJ'22

  Rui Zhang, Bayu Distiawan Trisedy, ***Miao Li***, Yong Jiang, Jianzhong Qi

  The International Journal on Very Large Data Bases

- A Topic Augmented Text Generation Model: Joint Learning of Semantics and Structural Features — EMNLP'19

  Hongyin Tang, ***Miao Li***, Beihong Jin

  Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing

- A New Effective Neural Variational Model with Mixture-of-Gaussians Prior for Text Clustering — ICTAI'19

  Miao Li, Hongyin Tang, Beihong Jin, Chengqing Zong

  2019 IEEE 31st International Conference on Tools with Artificial Intelligence

- Clustering Large-Scale Origin-Destination Pairs: A Case Study for Public Transit in Beijing — UIC'18

  Miao Li, Beihong Jin, Hongyin Tang, Fusang Zhang

  The 15th IEEE International Conference on Ubiquitous Intelligence and Computing

HONORS & AWARDS

- Google Conference Scholarship, Google Inc. — Jan. 2023
- AAAI-23 Student Scholarship, AAAI — Jan. 2023
- National Scholarship for Graduates (top 2%), Education Ministry of China — Nov. 2018
- First Prize Scholarship of University of Chinese Academy of Sciences (top 8%), twice — Oct. 2017 & 2018
- Excellent Student Cadre of University of Chinese Academy of Sciences, twice — Jun. 2018 & 2019
- Merit Student of University of Chinese Academy of Sciences, twice — Jun. 2018 & 2019
- Outstanding Graduate of Northeastern University — Jun. 2017

- Outstanding Graduate Thesis Award of Northeastern University (1/272) Jul. 2017
- National Scholarship for Undergraduates (top 2%), Education Ministry of China Oct. 2016
- The first prize scholarship of Northeastern University (top 4%), twice Oct. 2015 & 2016
- Excellent Student Cadre of Northeastern University, twice Sep. 2015 & 2016
- Honorable Mention in MCM/ICM 2015 Mar. 2015

PROFESSIONAL SERVICES

- Reviewer for ACL Rolling Review (2021 – Present)
- Member of reviewer committees:
  NLPCC 2022-2023, EACL 2023, ACL 2023-2024, EMNLP 2023-2024, NAACL 2025
- Sub-reviewer for WSDM 2022, SIGIR 2022, SIGKDD 2022, and CIKM 2022