

# Miao Li

Ph.D. Candidate

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<https://oaimli.github.io/>

## EDUCATION BACKGROUND

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**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 – Mar. 2025 (Expected)

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<sup>th</sup>/102)

**B.S. Northeastern University**

Aug. 2013 – July 2017

School of Computer Science and Technology GPA 88.75/100 (9<sup>th</sup>/272)

## RESEARCH INTERESTS

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- Multi-document reasoning: enabling computers to correlate and integrate information from multiple documents with language reasoning
- Sentiment-aware language modeling: developing language models to understand and generate human language with sentiment-aware nuances
- Grounded language generation: ensuring machine-generated texts contextually aligned well with given sources without hallucinations
- Resource-aware model evaluation: building effective and compute-efficient evaluation methodologies to accelerate advancements in generative artificial intelligence

## TECHNICAL SKILLS

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

## RESEARCH PUBLICATIONS

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- [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

- [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

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| • 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

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- 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