

# Miao Li

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## EDUCATION BACKGROUND

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| <b>Visiting Ph.D.</b>  | <b>The University of Edinburgh</b> | Mar. 2024 – Present              |
| Institute for Language, Cognition and Computation  |                                    |                                  |
| Supervised by Prof. <a href="#">Mirella Lapata</a>   |                                    |                                  |
| <b>Ph.D.</b>   | <b>The University of Melbourne</b> | Dec. 2020 – Mar. 2025 (Expected) |
| School of Computing and Information Systems  |                                    |                                  |
| Supervised by Prof. <a href="#">Eduard Hovy</a> and Dr. <a href="#">Jey Han Lau</a>        |                                    |                                  |
| <b>M.S.</b>  | <b>Chinese Academy of Sciences</b> | Aug. 2017 – July 2020            |
| Institute of Software, Chinese Academy of Sciences    GPA 88.31/100 (6 <sup>th</sup> /102) |                                    |                                  |
| <b>B.S.</b>  | <b>Northeastern University</b>     | Aug. 2013 – July 2017            |
| School of Computer Science and Technology    GPA 88.75/100 (9 <sup>th</sup> /272)          |                                    |                                  |

## RESEARCH INTERESTS

- Multi-document Processing: Enabling computers to reason over and synthesize dispersed information from multiple complex 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 problem formulation, data curation, modelling and evaluation methodologies for natural language generation
- Experienced in post-training and experimenting with large language models particularly for tasks involving long and complex contexts
- Familiar with programming in Python and PyTorch, and utilizing frameworks for pre-trained language models (e.g., Transformers and Accelerate)
- Solid understanding of natural language processing, deep learning and fundamental statistical machine learning

## RESEARCH PUBLICATIONS

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| • <a href="#">Aspect-Aware Decomposition for Opinion Summarization</a>   | Preprint |
| <i>Miao Li</i> , Jey Han Lau, Eduard Hovy, Mirella Lapata  |          |
| • <a href="#">NewsBench: A Systematic Evaluation Framework for Assessing Editorial Capabilities of Large Language Models in Chinese Journalism</a> | ACL'24   |
| <i>Miao Li</i> , 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