

# Miao Li

Postdoctoral Researcher in NLP/AI  
The University of Edinburgh, Edinburgh, Scotland

miao.li@ed.ac.uk  
<https://oaimli.github.io/>

## WORKING EXPERIENCE

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**Postdoctoral Researcher, The University of Edinburgh**  
Institute for Language, Cognition and Computation  
Supervised by Prof. [Mirella Lapata](#)

Mar. 2025 – Present

## EDUCATION BACKGROUND

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**Visiting Ph.D. The University of Edinburgh**  
Institute for Language, Cognition and Computation  
Advised by Prof. [Mirella Lapata](#)

Mar. 2024 – Mar. 2025

**Ph.D. The University of Melbourne**  
School of Computing and Information Systems  
Advised by Prof. [Eduard Hovy](#) and Dr. [Jey Han Lau](#)

Dec. 2020 – Mar. 2025

**M.Sc. (Exam-exempt Postgraduate) Chinese Academy of Sciences**  
Institute of Software, Chinese Academy of Sciences

Aug. 2017 – July 2020

**B.S. Northeastern University**  
School of Computer Science and Technology

Aug. 2013 – July 2017

## RESEARCH INTERESTS

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- Multi-document understanding: Enabling computers to reason over and synthesize dispersed information from multiple documents, e.g., summarizing or synthesizing insights from multiple scientific articles
- Long-context reasoning: Developing advanced large language models, with a current emphasis on long-context language models, that can effectively reason over voluminous, heterogeneous, and distributed information
- Language model evaluation: Establishing controlled experimentation and rigorous evaluation methodologies to assess not only language model outputs but also their inner workings and behaviors in order to understand their real-world capabilities, particularly large language models

## TECHNICAL SKILLS

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- Proficient with problem formulation, large-scale data curation, modelling and evaluation methodologies for natural language generation (NLG)
- Experienced in post-training and experimenting with large language models (LLMs), especially 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

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- [Who Gets Cited Most? Benchmarking Long-Context Language Models on Scientific Articles](#) arXiv'25  
**Miao Li**, Alexander Gurung, Irina Saparina, and Mirella Lapata.  
*Preprint (September 2025).*
- [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

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| • Google Conference Scholarship, Google Inc.  | Jan. 2023        |
| • AAAI-23 Student Scholarship, Association for the Advancement of Artificial Intelligence | Jan. 2023        |
| • National Scholarship for Graduates (top 2%), Education Ministry of China                | Nov. 2018        |
| • The First Prize Scholarship (top 8%), University of Chinese Academy of Sciences         | Oct. 2017 & 2018 |
| • Excellent Student Cadre, University of Chinese Academy of Sciences                      | Jun. 2018 & 2019 |
| • Merit Student, University of Chinese Academy of Sciences                                | Jun. 2018 & 2019 |
| • Outstanding Graduate, Northeastern University   | Jun. 2017        |
| • Outstanding Graduate Thesis Award (1/272), Northeastern University                      | Jul. 2017        |
| • National Scholarship for Undergraduates (top 2%), Education Ministry of China           | Oct. 2016        |
| • The First Prize Scholarship (top 4%), Northeastern University                           | Sep. 2015 & 2016 |
| • Excellent Student Cadre, Northeastern University  | Oct. 2015 & 2016 |
| • Honorable Mention in MCM/ICM 2015   | Mar. 2015        |

## TEACHING EXPERIENCES

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| • <a href="#">Foundations of Natural Language Processing</a> (INFR10078) | Course Tutor |
| AY 2025/2026 (Semester 2), The University of Edinburgh                   |              |

## PROFESSIONAL SERVICES

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- Reviewer for journals: TKDE 2025
  - Reviewer for ACL Rolling Review (2021 – Present)
  - Reviewer for conferences:  
ICLR 2026, ACL 2023-2026, EMNLP 2023-2025, NAACL 2025, EACL 2023, NLPCC 2022-2023,  
WSDM 2022, SIGIR 2022, SIGKDD 2022, CIKM 2022