

Miao Li

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

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

WORKING EXPERIENCE

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

Mar. 2025 – Present

EDUCATION BACKGROUND

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

- 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
- Large reasoning model: Developing advanced large language models, with a current emphasis on long-context language models, that can effectively reason over voluminous, heterogeneous, and distributed information
- Generative AI evaluation: Establishing controlled experimentation and high-quality evaluation methodologies for not only AI systems' outputs but also their inner workings and behaviours to assess their real-world capabilities, particularly large language models

TECHNICAL SKILLS

- 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

- [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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| • Foundations of Natural Language Processing (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