

XIYUAN ZOU

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🔗 xiyuanzou.github.io

EDUCATION

McGill University

B.S. in Computer Science

GPA: 3.97/4.0

September 2021 - Present

Montréal, CA

Advisor: Jackie Cheung

RESEARCH INTERESTS

Natural Language Processing, Information Retrieval, Large Language Models

PUBLICATIONS

A Controlled Reevaluation of Coreference Resolution Models

Ian Porada*, **Xiyuan Zou***, Jackie Cheung

The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING'24)

Separately Parameterizing Singleton Detection Improves End-to-end Neural Coreference Resolution

Xiyuan Zou, Yiran Li, Ian Porada, Jackie Cheung

The 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'24)

*Equal Contributions

EXPERIENCES

Montreal Institute of Learning Algorithms (MILA)

Research Intern, Advisor: Jackie Cheung

May 2023 - Present

Montréal, CA

- Work on neural coreference resolution, a core task of natural language understanding and information retrieval
- Replicate 5 coreference models developed over the past 5 years and conduct a rigorous ablation study
- Develop a new state-of-the-art coreference resolution architecture that is 95 times faster than Google's Seq2seq coreference model in inference speed
- Two papers accepted at NAACL'24 and LREC-COLING'24

HONOURS AND AWARDS

McGill Science Undergraduate Research Awards 2024 (\$9000)

Awarded to the undergraduate students who demonstrate academic excellence and significant research potential

McGill Science Undergraduate Research Awards 2023 (\$8000)

Awarded to the undergraduate students who demonstrate academic excellence and significant research potential

McGill Faculty of Science Dean's Honour List (Top 10%)

Awarded to the top 10% students in the faculty of science based on the combined GPAs

The 2021 Canadian Computing Olympiad (CCO'21) - Bronze Medal

Placed in the top 1% in the Canadian Computing Competition (CCC) and invited to participate in the Canadian Computing Olympiad (CCO). Ranked top 40 in Canada and awarded a bronze medal

The 2021 Canadian Math Olympiad (CMO'21) - Honour Rolls

Placed in the top 1% in the Canadian Open Mathematics Challenge (COMC) and invited to participate in the Canadian Math Olympiad (CMO)

The 2021 Euclid Mathematics Contest (Euclid'21) - Honourable Mentions

Placed in the top 2% out of more than 20,000 students across Canada, earning an honourable mention

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, HTML, JavaScript, Bash under Linux/Unix, SQL

Frameworks & APIs: Pytorch, Tensorflow, Keras, Huggingface, JQuery