

# WANG, Suyuchen

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Supervisor: Bang Liu (Associate Professor at Université de Montréal, Mila, CIFAR AI Chair)

## EDUCATIONAL BACKGROUND

**Université de Montréal / Mila**, Montréal, Québec, Canada 2021/01/07-2025/12/31 (Estimated)

Département d'informatique et de recherche opérationnelle

**Lab:** Recherche appliquée en linguistique informatique (RALI)

**Status:** Ph.D. Candidate in Computer Science

**GPA:** 4.18/4.3

**Beihang University**, Beijing, China 2016/09/01-2020/07/09

Shenyuan Honors College / National Pilot Program for Training Top Students (Everest Project)

**Degree:** B.Eng. (Hons.) in Computer Science and Technology **GPA:** 3.71/4.0 (Ranking in Class: 4/23)

## STANDARDIZED TESTS

**GRE: 326** (Verbal: 156, Quantitative: 170, Analytical Writing 4.0) Took on: 2019/08/31

**TOEFL: 110** (Reading: 28, Listening: 29, Speaking: 25, Writing: 28) Took on: 2019/05/26

## PUBLICATIONS

1. **Suyuchen Wang\***, Jinlin Wang\*, Ziwen Xia, Sirui Hong, Yun Zhu, Bang Liu, and Chenglin Wu. "FACT: Examining the Effectiveness of Iterative Context Rewriting for Multi-fact Retrieval". Under Review.
2. Juan A. Rodriguez, **Suyuchen Wang**, et al. "BigDocs: An Open and Permissively-Licensed Dataset for Training Multimodal Models on Document and Code Tasks". Under Review.
3. Zhiyuan Hu, Yuliang Liu, Jinman Zhao, **Suyuchen Wang**, Yan Wang, Wei Shen, Qing Gu, Anh Tuan Luu, See-Kiong Ng, Zhiwei Jiang, and Bryan Hooi. "LongRecipe: Recipe for Efficient Long Context Generalization in Large Language Models". Under Review.
4. Tianyu Zhang\*, **Suyuchen Wang\***, Lu Li, Ge Zhang, Perouz Taslakian, Sai Rajeswar, Jie Fu, Bang Liu, and Yoshua Bengio. "VCR: Visual Caption Restoration". Accepted by the Sys2-Reasoning at Scale Workshop @ NeurIPS 2024. Under Review.
5. Lu Li, Tianyu Zhang, Zhiqi Bu, **Suyuchen Wang**, Huan He, Jie Fu, Yonghui Wu, Jiang Bian, Yong Chen, and Yoshua Bengio. "MAP: Low-compute Model Merging with Amortized Pareto Fronts via Quadratic Approximation". Accepted by the FL@FM Workshop @ NeurIPS 2024. Under Review.
6. Zhiyuan Hu, Yuliang Liu, Jinman Zhao, **Suyuchen Wang**, WangYan, Wei Shen, Chao Yin, and Bryan Hooi. "CD-Pos: Long Context Generalization in LLMs Through Continuous and Discrete Position Synthesis". Accepted by the LCFM Workshop @ ICML 2024.
7. **Suyuchen Wang**, Peng Lu, Ivan Kobyzev, Mehdi Rezagholizadeh, and Bang Liu. "Resonance RoPE: Improving Context Length Generalization of Large Language Models". Accepted by Findings of the Association for Computational Linguistics ACL 2024.
8. **Suyuchen Wang**, and Bang Liu. "DiffTune: A Diffusion-Based Approach to Diverse Instruction-Tuning Data Generation". Accepted by the ENLSP Workshop @ NeurIPS 2023.
9. Hossein Rajabzadeh, **Suyuchen Wang**, Hyock Ju Kwon, and Bang Liu. "Multimodal Multi-Hop Question Answering Through a Conversation Between Tools and Efficiently Finetuned Large Language Models". Accepted by the ENLSP Workshop @ NeurIPS 2023.
10. Peng Lu, **Suyuchen Wang**, Mehdi Rezagholizadeh, Bang Liu, and Ivan Kobyzev. "Efficient Classification of Long Documents via State-Space Models". Accepted by EMNLP 2023.
11. **Suyuchen Wang**, Ruihui Zhao, Yefeng Zheng, and Bang Liu. "QEN: Applicable Taxonomy

Completion via Evaluating Full Taxonomic Relations”. Accepted by The Web Conference (TheWebConf, Former WWW) 2022.

12. **Suyuchen Wang**, Ruihui Zhao, Xi Chen, Yefeng Zheng, and Bang Liu. “Enquire one’s parent and child before decision: Fully exploit hierarchical structure for self-supervised taxonomy expansion”. Accepted by The Web Conference (TheWebConf, Former WWW) 2021.
13. Yaowei Zheng, Richong Zhang, **Suyuchen Wang**, Samuel Mensah, and Yongyi Mao. “Anchored model transfer and soft instance transfer for cross-task cross-domain learning: a study through aspect-level sentiment classification”. Accepted by The Web Conference (TheWebConf, Former WWW) 2020.

### TEACHING EXPERIENCES

Teaching Assistant for **IFT 6289 - Natural Language Processing with Deep Learning** Winter 2024  
Teaching Assistant for **IFT 6759 - Advanced Machine Learning Projects** Winter 2023  
Teaching Assistant for **IFT 6289 - Natural Language Processing with Deep Learning** Winter 2022

### INTERNSHIP EXPERIENCES

**Huawei Noah’s Ark Lab**, Montreal, Quebec, Canada 2023/05-2024/03  
Natural Language Processing (NLP) Research Intern  
Published 3 papers with colleagues in ACL and the ENLSP workshop @ NeurIPS 2023 about Long Context Modeling and Tool-assisted LLMs

**Tencent Jarvis Lab**, Shenzhen, Guangdong, China 2020/07-2021/07  
Natural Language Processing (NLP) Research Intern  
Published 2 papers in The Web Conference about Taxonomy Expansion and Taxonomy Completion

### HONORS & AWARDS

1. Bourses d'études dans le domaine de l'intelligence artificielle de l'Université de Montréal (10,000 CAD) (2021)
2. The Honor of Outstanding Undergraduate of Beihang University (2020)
3. The Honor of Merit Student of Beihang University (2019, 2018 & 2017)
4. The Grand Prize Scholarship for Outstanding Social Work Performance of Beihang Uni. (2019)
5. The First Prize Scholarship for Outstanding Academic Performance of Beihang Uni. (2019)
6. The First Prize Scholarship Outstanding Competition Performance of Beihang Uni. (2019)
7. The Meritorious Winner of the 2018 Mathematical Contest in Modeling (MCM)
8. The Second Prize of the 2018 Beijing Contemporary Undergraduate Mathematical Contest in Modeling
9. The First Prize of the 2018 Mathematical Modeling Contest of Beihang University
10. The Grand Prize Scholarship for Outstanding Competition Performance of Beihang Uni. (2018)
11. The First Prize Scholarship for Outstanding Social Work Performance of Beihang Uni. (2018)
12. The First Prize Scholarship for Outstanding Social Practice Performance of Beihang Uni. (2018)
13. The Third Prize of Band C group in 2017 National English Competition for College Students
14. The Third Prize in the 2017 Mathematical Modeling Contest of Beihang University
15. The Third Prize Scholarship for Outstanding Academic Performance of Beihang Univ. (2017)
16. The Third Prize Scholarship for Outstanding Literature and Art Performance of Beihang Uni. (2017)
17. The Scholarship for Excellent Freshman of Beihang University for the 2016 Academic Year

### ACADEMIC VOLUNTEER WORKS

Student Volunteer - the 30th International Joint Conference on Artificial Intelligence (IJCAI-21) 2021/08

### OTHER SKILLS

Computer Skills: Proficient in programming (familiar with C, C++, Java & Python); Received the Certified Software Professional Certificate from the China Computer Federation (CCF-CSP) for C/C++ (top 9.1%)