Mingxiao Li

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EDUCATION

KU Leuven, Belgium

Ph.D. in Computer Science

Sept.2019 - present

• Advisor: Prof. Marie-Francine Moens

• Research Interests: Vision-Language, Generative Models, Large Vision-Language Model

Master of Artificial Intelligence

Leuven, Belgium

Sept.2018 - Sept.2019

• Thesis: Decomposing Sentence Representation (Advisor: Prof. Marie-Francine Moens)

KU Leuven

KU Leuven

Leuven, Belgium

Master of Quantum Chemistry and Computational Modeling

Sept.2016 - Jun.2018

• Thesis: Crystallochemistry of hexagnal Jahn-Teller perovskites: organ of helical Jahn-Teller order and of large non-Jahn-Teller distortions (Advisor: Prof. Liviu Chibotaru)

East China University of Science and Technology

Shanghai, China Sept.2011 - Jun.2015

Bachelor of Material Physics

• Academic scholarship: Academic vear 2011-2012, 2012-2013, 2013-2014,2014-2015

• Honors Graduate: (Top 5% students in Department of Material)

SELECTED PUBLICATION

- Mingxiao Li*, Tingyu Qu, Ruicong Yao, Wei Sun, & Marie-Francine Moens. Alleviating Exposure Bias in Diffusion Models through Sampling with Shifted Time Steps. *International Conference on Learning Representations (ICLR 2024)*. [Paper] [Code (DDPM ver.)][Code (ADM ver.)]
- Mang Ning, **Mingxiao Li**, Jianlin Su, Albert Ali Salah & Itir Onal Ertugrul. Elucidating the Exposure Bias in Diffusion Models. *International Conference on Learning Representations (ICLR 2024)*. [Paper] [Code]
- Jingyuan Sun*, **Mingxiao Li***, Zijiao Chen, Yunhan Zhang, Shaonan Wang, & Marie-Francine Moens. Contrast, Attend and Diffuse to Decode High-Resolution Images from Brain Activities. *Advances on Neural Information Processing Systems.* (NeurIPS 2023). [Paper] [Code]
- Mingxiao Li*, Zehao Wang*, Tinne Tuytelaars, & Marie-Francine Moens. Layout-Aware Dreamer for Embodied Visual Referring Expression Grounding. *Proceeding of the AAAI Conference on Artificial Intelligence (AAAI 2023)* (Oral Presentation). [Paper] [Code]
- Mingxiao Li, Marie-Francine Moens. Dynamic Key-value Memory Enhanced Multi-step Graph Reasoning for Knowledge-based Visual Question Answering. *Proceeding of the AAAI Conference on Artificial Intelligence* (AAAI 2022). [Paper][Code]
- Mingxiao Li, Marie-Francine Moens. Modeling Coreference Relations in Visual Dialog. The 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2021). [Paper][Code]

Preprint

- Mingxiao Li*, Bo Wan*, Tinne Tuytelaars, & Marie-Francine Moens. Animate Your Motion: Turning Still Images into Dynamic Videos. [Paper]
- Jingyuan Sun*, **Mingxiao Li***, Zijiao Chen, & Marie-Francine Moens. NeuroCine: Decoding Vivid Video Sequences from Human Brain Activities.[Paper]

^{*} denotes equal contribution

Award

European Union Erasmus Mundus Full Scholarship. (2016-2018)

Chinese Government Scholarship for Outstanding Undergraduate Students. (2015)

SERVICE

Reviewer: ACL, AAAI, EACL, ECML

Workshop Organizer: AAAI-2024 Workshop: Artificial Intelligence for Brain Encoding and Decoding

(AIBED)

${\rm Skills}$

Programming Languages: Python (Mainly use PyTorch for research), JAVA, MATLAB

Languages: Mandarin (Native), English (Full proficiency)

Reference

Prof. Marie-Francine Moens (sien.moens@kuleuven.be), full professor, Department of Computer Science, KU Leuven Prof. Tinne Tuytelaars (tinne.tuytelaars@kuleuven.be), full professor, Department of Electrical Engineering, KU Leuven