Mingxiao Li

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EDUCATION

KU Leuven — 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

KU Leuven — Leuven, Belgium
Master of Artificial Intelligence — *Sept.2018 - Sept.2019*
- Thesis: Decomposing Sentence Representation (Advisor: Prof. Marie-Francine Moens)

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 Chine University of Science and Technology — Shanghai, China
Bachelor of Material Physics — *Sept.2011 - Jun.2015*
- *Academic scholarship*: Academic year 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 Activties.[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)

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