

ZEHAO WANG

(+32 489035431), zekewang@outlook.com

EDUCATION

KU Leuven, Belgium

PhD candidate supervised by Prof. Tinne Tuytelaars
Department of Electrical Engineering (ESAT)

March 2020 - April 2025 (expected)
Topic: Vision-Language Navigation

KU Leuven, Belgium

Master of Science in Artificial Intelligence
Department of Computer Science

September 2018 - February 2020
GPA: 16.25/20
Magna cum laude

University of Macau, Macau SAR, China

Bachelor of Science in Computer Science
Department of Computer and Information Science

September 2014 - June 2018
GPA: 3.72/4.0
Ranked 1st

- **Award:** Henry Fok Foundation Scholarship for academic year of 2014/2015 (0.5%), Dean's Honor List 2014-2018, The China Telecom Scholarship for the academic year of 2015/2016, Macau Foundation Academic Prize of 2017/2018 (10 from potential graduates)

EXPERIENCE

AI Laboratory of SenseTime

Computer Vision Research Intern

SenseTime, China

February 2021 - August 2021

- Responsible for reproducing multimodal pretraining with the CLIP model before its official training details were released.
- Collaborated with NLP colleagues on event extraction tasks and developed a multi-modal knowledge graph using the Neo4j graph database, resulting in two co-first authored papers accepted at ACL 2022.

Laboratory of Data Science

Undergraduate Research Assistant

University of Macau, Macau SAR

October 2015 - January 2017

- Implemented a hotspot identification system based on taxi data of New York City using Apache Spark.

PUBLICATIONS (* stands for co-first authorship)

- Knowledge Evolution for Lifelong Embodied AI: A Brief Survey
Zehao Wang, Sergi Masip, Minye Wu, Haoran Chen, Zhaoyi Liu, Han Zhou, Zuxuan Wu, Yixin Cao, Yungang Jiang, Tinne Tuytelaars
submission under review
- Diversity-Driven View Subset Selection for Indoor Novel View Synthesis
Zehao Wang, Han Zhou, Matthew B. Blaschko, Tinne Tuytelaars, Minye Wu
submission under review
- Navigating the Nuances: A Fine-grained Evaluation of Vision-Language Navigation
Zehao Wang, Minye Wu, Yixin Cao, Yubo Ma, Meiqi Chen, Tinne Tuytelaars
Conference on Empirical Methods in Natural Language Processing (EMNLP, Findings, 2024)
- TeTriRF: Temporal Tri-Plane Radiance Fields for Efficient Free-Viewpoint Video
Minye Wu, **Zehao Wang**, Georgios Kouros, Tinne Tuytelaars
Conference on Computer Vision and Pattern Recognition (CVPR, 2024)
- Instruction-Guided Path Planning with 3D Semantic Maps for Vision-Language Navigation
Zehao Wang*, Mingxiao Li*, Minye Wu, Marie-Francine Moens, Tinne Tuytelaars
Neurocomputing (Journal)

- Few-shot Event Detection: An Empirical Study and a Unified View
Yubo Ma, **Zehao Wang**, Yixin Cao, Aixin Sun
Annual Meeting of the Association for Computational Linguistics (ACL, 2023)
- Layout-aware Dreamer for Embodied Referring Expression Grounding
Mingxiao Li*, **Zehao Wang***, Tinne Tuytelaars, Marie-Francine Moens
Thirty-Seven AAAI Conference on Artificial Intelligence (AAAI, 2023)(Oral)
- Prompt for Extraction? PAIE: Prompting Argument Interaction for Event Argument Extraction
Yubo Ma*, **Zehao Wang***, Mukai Li, Meiqi Chen, Kun Wang, Jing Shao, Yixin Cao
Annual Meeting of the Association for Computational Linguistics (ACL, 2022)
- MMEKG: Multi-modal Event Knowledge Graph towards Universal Representation across Modalities
Yubo Ma*, **Zehao Wang***, Mukai Li*, Yixin Cao*, Meiqi Chen*, Zexin Li, Wenqi Sun, Kunquan Deng, Kun Wang, Aixin Sun, Jing Shao
Annual Meeting of the Association for Computational Linguistics (ACL Demo track, 2022)