

# Yuanhuiyi Lyu

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## Personal Profile

I'm now a research assistant at VLIS Lab, Hong Kong University of Science and Technology (HKUST). I obtained my B.ENG in Artificial Intelligence from Northeastern University (NEU). My research interests include **Multi-modal Learning**, **Embodied Vision**, **3D Vision**, and **NLP**.

## Education

### Northeastern University

Shenyang, China

Bachelor in Artificial Intelligence

Sept 2019 - June 2023

- GPA: **87.39/100**
- **Courses:** Object-Oriented Programming(C++) (**98**), Data Structure/Algorithm (**91**), Optimization Methods (**91**), Machine Learning (**95**), Linear Algebra (**88**), Probability Theory and Mathematical Statistics (**94**), Natural Language Processing (**85**), Computer Graphics (**90**)
- **Activities:** Machine Learning Club in Northeastern University, Students Guidance Service Centre of Northeastern University

## Research Experience

### VLIS Lab, Hong Kong University of Science and Technology

Guangzhou & Hong Kong

Research Assistant

June 2023 - present

- **Supervisor:** Addison Lin Wang
- **Research Area:** Multi-modal Vision, 3D Vision, Embodied Vision

### NLP Lab, Tsinghua University

Beijing, China

Research Intern

Oct 2021 - Dec 2022

- **Supervisor:** Zhenghao Liu, Chenyan Xiong, Zhiyuan Liu
- **Research Area:** Multi-modal Learning, Information Retrieval

### NLP Lab, Northeastern University

Shenyang, China

Research Intern

June 2021 - Sept 2021

- **Supervisor:** Tong Xiao
- **Research Area:** Natural Language Processing

## Publications

Universal Vision-Language Dense Retrieval: Learning A Unified Representation Space for Multi-Modal Retrieval

Zhenghao Liu, Chenyan Xiong, **Yuanhuiyi Lv**, Zhiyuan Liu, Ge Yu

The Eleventh International Conference on Learning Representations ( *ICLR 2023* )

Componerf: Text-guided multi-object compositional nerf with editable 3d scene layout

Haotian Bai, **Yuanhuiyi Lyu**, Lutao Jiang, Si Jia Li, Haonan Lu, Xiaodong Lin, Lin Wang

arXiv preprint arXiv:2303.13843 (2023). 2023

Chasing Day and Night: Towards Robust and Efficient All-Day Object Detection Guided by an Event Camera

Jiahang Cao, Xu Zheng\*, **Yuanhuiyi Lyu\***, Jiaxu Wang, Renjing Xu, Lin Wang

arXiv preprint arXiv:2309.09297 (2023). 2023

E-CLIP: Towards Label-efficient Event-based Open-world Understanding by CLIP

Jiazhou Zhou\*, Xu Zheng\*, **Yuanhuiyi Lyu**, Lin Wang

arXiv preprint arXiv:2308.03135 (2023). 2023

## Open-Source Projects

### Prompt Tuning For Sentiment Classification Base On Pre-trained Language Models

Shenyang, China

NEU NLP Lab

June 2021 - Sept 2021

- The code is open source at <https://github.com/QC-LY/Prompt-Tuning-For-Sentiment-Classification>

## Honors and Awards(Selected)

2023 **Outstanding Graduation Dissertation (<2%)**, Northeastern University

Shenyang, China

2022 **Outstanding Students Scholarship**, Northeastern University

Shenyang, China

2021 **The First Prize in China Undergraduate Mathematical Contest in Modeling**, CSIAM

Shenyang, China

2021 **Outstanding Students Scholarship**, Northeastern University

Shenyang, China

2020 **Outstanding Students Scholarship**, Northeastern University

Shenyang, China

References available upon request.