QIUSHI LYU

Peking University

@ lvqiushi2015@gmail.com, lvqiushi@stu.pku.edu.cn   ✆ (+86)136 7518 5585

✉ 447, Building 45B, Peking University, Beijing, 100871   ● Beijing, China   ⊕ https://alfredlyu.github.io/   ⌨ AlfredLyu

EDUCATION

Bachelors of Computer Science (Turing Class)
Peking University

🗓 Sept. 2021 – Present   ● Beijing, China

- GPA 3.92/4.00, **Rank 1/121**
- Gold medalist at the 2020 China National Olympiad in Informatics (NOI), leading to direct admission into Peking University.

Visiting Student
Massachusetts Institute of Technology

🗓 Mar. 2024 – Aug. 2024   ● Boston, US

- Advised by Prof. Joshua B. Tenenbaum and Prof. Chuang Gan.
- Specialized in Computer Vision and Embodied AI.

RESEARCH INTERESTS

Computer Vision

Embodied AI and Robotics

Multimodal Learning

LANGUAGES

Chinese: Native Speaker
English: TOEFL 105(Speaking 23), GRE 320

# PUBLICATIONS (*DENOTES EQUAL CONTRIBUTION)

Constrained Human-AI Cooperation: An Inclusive Embodied Social Intelligence Challenge   **NeurIPS 2024 D&B Track**
Authors: Weihua Du*, **Qiushi Lyu***, Jiaming Shan, Zhenting Qi, Hongxin Zhang, Sunli Chen, Andi Peng, Tianmin Shu, Kwonjoon Lee, Behzad Dariush, Chuang Gan
- Add description here

COMBO: Compositional World Models for Embodied Multi-Agent Cooperation   **Submit to ICLR 2025**
Authors: Hongxin Zhang*, Zeyuan Wang*, **Qiushi Lyu***, Zheyuan Zhang, Sunli Chen, Tianmin Shu, Yilun Du, Chuang Gan
- Add description here

MagnifierSketch: A Unified Data Structure for Efficient Aggregate and Per-Flow Latency Quantile Estimation   **Submit to WWW 2025**
Authors: Jiarui Guo*, **Qiushi Lyu***, Yuhan Wu*, Haoyu Li*, Tong Yang, Zhaoqian YAO, Yuqi Dong, Peiqing Chen, Xiaolin Wang
- Add description here

SELECTED PRIZES

May 4th Scholarship
The best scholarship in Peking University, has equivalent status to National Scholarship   Dec. 2023

POSCO Asia Fellowship
Comprehensive Excellent Award sponsored by POSCO   Dec. 2022

International Collegiate Programming Contest (ICPC) Asia-East Continent Final Contest
Rank 4, Gold Medal   Jul. 2022

International Collegiate Programming Contest (ICPC) Shenyang Regional Contest
Rank 1, Gold Medal, beat the future ICPC World Final Champion   Nov. 2021

China National Olympiad in Informatics (NOI) 2020
Rank 45, Gold Medal   Aug. 2020

EXPERIENCES

Research Intern

MIT-IBM Watson AI Lab, Massachusetts Institute of Technology

Aug. 2022 – Present   Boston, US / Remote

- Advised by Prof. Joshua B. Tenenbaum and Prof. Chuang Gan.
- Add some description here.

Research Intern

Peking University

Jan. 2022 – July. 2022   Beijing, China

- Advised by Prof. Tong Yang
- Add some description here

TEACHING EXPERIENCE

Teaching Assistant: Discrete Mathematics and Structures(I)   Fall 2023