

Yaowen Ye (Elwin, 叶耀文)

elwin@connect.hku.hk, helloelwin.github.io

RESEARCH INTEREST

AI Safety&Alignment: Ensuring that both current and future AI systems follow human values and interests rather than bringing adverse or even catastrophic consequences to society.

Scalable Oversight: Investigating how humans can provide meaningful and scalable supervision for large-scale models with limited time and human effort.

Cognitive Reasoning & Intuitive Physics: Studying humans' cognitive capabilities and machine intelligence from an interdisciplinary perspective.

EDUCATION

The Affiliated High School of South China Normal University 2018.09-2021.6

Major in mathematics, physics, biology, Chinese, English, and politics

The University of Hong Kong 2021.09-present

Bachelor of Engineering in Computer Science (GPA: 4.17/4.3)

PUBLICATIONS

"Graph Masked Autoencoder for Sequential Recommendation" SIGIR'23

The 46th International ACM SIGIR Conference on Research and Development in Information Retrieval

Yaowen Ye, Chao Huang, and Lianghao Xia.

"Masked Graph Transformer for Recommendation" SIGIR'23

The 46th International ACM SIGIR Conference on Research and Development in Information Retrieval

Chaoliu Li, Chao Huang, Lianghao Xia, Xubin Ren, Yaowen Ye, and Yong Xu.

RESEARCH EXPERIENCES

Research internship at [CoRe Lab](#) at Peking University 2023.06-2023.09

Supervised by Dr. Yixin Zhu. I worked on a project investigating the heuristic and dynamic modes of humans' and deep learning models' physical reasoning, and studied cognitive reasoning research topics, including abductive reasoning concept learning.

Research internship at [Data Intelligence Lab](#) at HKU 2021.12-2023.06

Supervisor: Dr. Chao Huang. I worked on projects about leveraging generative self-supervised learning to address the data noise and sparsity issues in recommender systems.

AWARDS

Silver Award 2022.10

The 1st EEG & AI Competition organized by the Faculty of Education of HKU (HK\$ 2,000)

Young Tsun Dart Scholarship 2022-23

Merit-based Scholarship for students in HKU Engineering faculty (HK\$ 15,000)

Noel Chau Scholarship 2021-22

Merit-based Scholarship for HKU students (HK\$ 20,000)

Dean's Honours List 2021-22

Merit-based Award for students in HKU Engineering faculty

Ho Fook and Chan Kai Ming Prize	2021-22
<i>Scholarship awarded by HKU (HK\$ 5,000)</i>	
Outstanding Student of the Year	2019.12
<i>Science Talent Program (英才计划) jointly organized by China Association for Science & Technology and the Ministry of Education of the PRC</i>	
Outstanding Student	2019.08
<i>Tsinghua University Global Innovation Exchange Summer Camp</i>	
First Prize	2018.01
<i>National Olympiad in Informatics in Guangdong province organized by CCF</i>	

SKILLS

Python and C++; Data structures and algorithms; ML/DL; PyTorch and TensorFlow.

LEADERSHIP

Co-Founder of HKU AI4Good Association

A student-initiated group focused on undergraduate AI research, AI safety, alignment, and governance. Activities include research seminars, paper reading groups, research mentorship programs, and invited talks from Ph.D.'s and professors in related fields.

Vice Captain of HKU Astar (former HerKules Robomaster-AI) Team

A team focused on RoboMaster competitions. I did technical work for: 1) Auto-aiming: Adopt convolutional neural networks and conventional algorithms to detect enemy robots and control the robot gun to attack them. 2) Localization: Utilizing color and depth cameras to locate robots in the point cloud space of the battlefield, based on object detection with deep learning.