YUCHEN WANG

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EDUCATION EXPERIENCES

Peking University, Electrical Engineering and Computer Science 2021 - 2025(expected)

Undergraduate,*Bachelor of Science* *GPA(Yr1 84.70 Yr2 88.44 Yr3 87.61)* *Rank 30%(8/31)*

SELECTED AWARDS

Zhi Class Scholarship 2023 (Top 5%)

Outstanding Academic Achievement Award 2023 (Top 10%)

Zhi Class Scholarship 2024 (Top 5%)

SELECTED PROJECTS

- ***Investigate on Prompts For PointCLIP V2***

  GitHub | Publication

  This research project investigates the factors contributing to PointCLIP V2's exceptional performance across various tasks, with a spotlight on the role of prompt searching. The study explores the relationship between advanced Large Language Models (LLMs) and their impact on enhancing prompt-image alignment within CLIP. A key finding is that superior LLMs do not automatically ensure better results; instead, the success of prompts is significantly dependent on the selection of appropriate images, highlighting the necessity for a thorough search process.

- ***Fast Simulation of Mass-Spring Systems***

  GitHub | Publication

  This work introduces an efficient scheme for the rapid and stable simulation of mass-spring systems. Utilizing an accelerated solver based on block coordinate descent, the method achieves higher frame rates and delivers visually comparable results to real-time simulations. Notably, it maintains the stability afforded by the implicit Euler method while reducing computational costs.

- For an overview of my recent academic readings, please visit my Paper Readings repository.

ACADEMIC SERVICES

Advised by Prof. Di He and Prof. Liwei Wang from PKU 2023.9 - *2024.4*

- Explore Model merging for large language models.
- Investigate the understanding of in-context learning for large language models.

SKILLS

Programming Languages: Python; Pytorch; C; C++; LaTeX

Standard test scores: TOEFL: 98, CET6: 590