Runpeng Yu

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Education Background

National University of Singapore   Singapore
Ph.D., Data Science, Institute of Data Science   Aug. 2022 – Now
Supervisor: Xinchao Wang
Anticipated Graduation Date: 06/26 (June 2026)

Tsinghua University   Shenzhen, China
MS, Data Science, Tsinghua-Berkeley Shenzhen Institute   Sept. 2019 – July 2022
Courses: Statistical Learning, Bayesian Learning, Large Deviation Theory, Information Theory
Supervisor: Shaolun Huang

Tianjin University   Tianjin, China
BMS, Information Management and Information Systems, College of Management and Economics   Sept. 2015 – July 2019
Courses: General Artificial Intelligence, Data warehouse Technology, Data Mining

Nankai University   Tianjin, China
BEcon, Finance (Minor), School of Finance   Sept. 2016 – July 2019

Research Interests

- **Multimodal Large Language Model (MLLM)**. Large Vision Language Model, MLLM-Human Interaction and MLLM Performance-Efficiency Balance.
- **Machine Learning**. Lineage Relationships among Pretrained Models, Pretrained Model Reuse.

Publications

- **Runpeng Yu**, Xinyin Ma and Xinchao Wang, *Introducing Visual Perception Token into Multimodal Large Language Model*, Preprint 2025.
- **Runpeng Yu** and Xinchao Wang, *Neural Phylogeny: Fine-Tuning Relationship Detection among Neural Networks*, ICLR 2025.
- **Runpeng Yu**, Weihao Yu and Xinchao Wang, *Attention Prompting on Image for Large Vision-Language Models*, ECCV 2024.
- **Runpeng Yu** and Xinchao Wang, *Neural Lineage*, CVPR 2024 Oral.
- **Runpeng Yu** and Xinchao Wang, *Generator Born from Classifier*, NeurIPS 2023.
- **Runpeng Yu**, Songhua Liu, Xingyi Yang, and Xinchao Wang, *Distribution Shift Inversion for Out-of-Distribution Prediction*, CVPR 2023.
- **Runpeng Yu**, Hong Zhu, Kaican Li, Lanqing Hong, Rui Zhang, Nanyang Ye, Shao-Lun Huang and Xiuqiang He, *Regularization Penalty Optimization for Addressing Data Quality Variance in OoD Algorithms*, AAAI 2022.
- Yutong Xia*, **Runpeng Yu***, Yuxuan Liang, Xavier Bresson, Xinchao Wang and Roger Zimmermannand, *A Spectral Perspective On Graph Data Augmentation for Graph Classification*, AAAI 2025.

Services in Scientific Community

- Reviewer of CVPR, ECCV, ICCV, NeurIPS, ICLR, ICML, AAAI, ICLR, AISTATS, ICASSP, WACV, TIP, TMM, and PR.

Awards

NUS President's Graduate Fellowship	2022
Scholarship of Tsinghua Shenzhen International Graduate School, Second Prize	2020
National Undergraduate Scholarship	2017
Merit Student of Tianjin University	2017