

# Runpeng Yu

✉ E-Mail: r.yu@u.nus.edu  
☎ Phone: +65 89420663  
🌐 Home Page: yu-rp.github.io  
🔍 Scholar: Runpeng Yu Google Scholar  
📄 GitHub: yu-rp.github  
📍 Address: 4 Engineering Drive 3, block E4, Singapore - 117583

## Education Background

### National University of Singapore

*Ph.D., Data Science, Institute of Data Science*

Supervisor: Xinchao Wang

Anticipated Graduation Date: 06/26 (June 2026)

Singapore

Aug. 2022 – Now

### Tsinghua University

*MS, Data Science, Tsinghua-Berkeley Shenzhen Institute*

Courses: Statistical Learning, Bayesian Learning, Large Deviation Theory, Information Theory

Supervisor: Shaolun Huang

Shenzhen, China

Sept. 2019 – July 2022

### Tianjin University

*BMS, Information Management and Information Systems, College of Management and Economics*

Courses: General Artificial Intelligence, Data warehouse Technology, Data Mining

Tianjin, China

Sept. 2015 – July 2019

### Nankai University

*BEcon, Finance (Minor), School of Finance*

Tianjin, China

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

- Xinyin Ma, Guangnian Wan, **Runpeng Yu**, Gongfan Fang and Xinchao Wang, *CoT-Valve: Length-Compressible Chain-of-Thought Tuning*, Preprint 2025.
- **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 Zimmermann, *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