Yujun Shi

Contact Information

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Education

2021–Present **Ph.D in Machine Learning:** National University of Singapore
Advisors: **Assoc. Prof. Vincent Y. F. Tan & Dr. Jiashi Feng**

2015–2019 **B.S. in Computer Science:** Nankai University
GPA: 92.14/100, Rank:1/93   Advisor: **Prof. Mingming Cheng**

Internship Experience

2021–present **Research Intern:** Bytedance
Topic: Continual/Federated Learning   Mentor: Song Bai

Publications:

ArXiv 22   **Yujun Shi**, Song Bai, Jian Liang, Wenqing Zhang, Vincent Y. F. Tan. Towards Understanding and Mitigating Dimensional Collapse in Heterogeneous Federated Learning. (In submission.)

CVPR 22   **Yujun Shi**, Kuangqi Zhou, Jian Liang, Zihang Jiang, Jiashi Feng, Philip Torr, Song Bai, Vincent Y. F. Tan. Mimicking the Oracle: An Initial Phase Decorrelation Approach for Class Incremental Learning.

NeurIPS 21   Zihang Jiang, Qibin Hou, Li Yuan, Daquan Zhou, **Yujun Shi**, Xiaojie Jin, Anran Wang, Jiashi Feng. All Tokens Matter: Token Labeling for Training Better Vision Transformers.

ArXiv 21   Daquan Zhou, **Yujun Shi**, Bingyi Kang, Weihao Yu, Zihang Jiang, Yuan Li, Xiaojie Jin, Qibin Hou, Jiashi Feng. Refiner: Refining Self-attention for Vision Transformers.

ICCV 21   Li Yuan, Yunpeng Chen, Tao Wang, Weihao Yu, **Yujun Shi**, Zihang Jiang, Francis EH Tay, Jiashi Feng, Shuicheng Yan. Tokens-to-Token ViT: Training Vision Transformers from Scratch on ImageNet.

CVPR 21   **Yujun Shi**, Li Yuan, Yunpeng Chen, Jiashi Feng. Continual Learning via Bit-Level Information Preserving.

TPAMI   Yun Liu, Yuhuan Wu, Peisong Wen, **Yujun Shi**, Ming-Ming Cheng. Leveraging Instance-, Image- and Dataset-Level Information for Weakly Supervised Instance Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence.

ArXiv 19   **Yujun Shi**, Benben Liao, Guangyong Chen, Yun Liu, Ming-Ming Cheng, Jiashi Feng. Understanding Adversarial Behavior of DNNs by Disentangling Non-Robust and Robust Components in Performance Metric.

ArXiv 19   Guangyong Chen, Pengfei Chen, **Yujun Shi**, Chang-Yu Hsieh, Benben Liao, Shengyu Zhang. Rethinking the usage of batch normalization and dropout in the training of deep neural networks.

Honors & Awards

2022–2025	NUS Research Scholarship
2019	4-th place in MineRL@NeurIPS2019 competition
2017, 2018	Nankai First Class Scholarship Award
2016	National Scholarship Award
2016	Outstanding Award in Tianjin Math Contest for College Students

English Scores

IELTS	7.5(overall) 8.0(reading) 8.5(listening) 7.0(speaking) 7.0(writing)
TOEFL	105
GRE	321(verbal and reasoning) + 4(writing)

Projects

2016	Software Development (Based on ArchiCAD Platform) in the Design of Underground Pipe Gallery. I co-developed an add-on for a CAD for architects called ArchiCAD. Language: C++.

Skills

Programming	C++/C(CUDA), Python, Matlab, Java
Packages	Pytorch, TensorFlow, Caffe, OpenCV