

Yujun Shi

Personal Details

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Education

Nankai University, Tianjin, China Sep. 2015 - Jun. 2019
B.S. in Compute Science
Cumulative GPA: 92.14/100, Rank: 1/93
Advisor: **Prof. Mingming Cheng**

National University of Singapore, Singapore Jan. 2021 - present
Ph.D in Machine Learning
Research Topic: Federated Learning / Continual Learning
Advisor: **Assoc Prof. Vincent Y. F. Tan & Dr. Jiashi Feng**

Internship Experience

Bytedance, Singapore June. 2021 - present
Research Topic: Federated Learning / Continual Learning
Mentor: **Dr. Song Bai**

Paper List

- **Yujun Shi**, Song Bai, Jian Liang, Wenqing Zhang, Vincent Y. F. Tan. Towards Understanding and Mitigating Dimensional Collapse in Heterogeneous Federated Learning. (In submission.)
- **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. (**CVPR 2022**).
- 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. (**NeurIPS 2021**).
- 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. (<https://arxiv.org/abs/2106.03714>)
- 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. (**ICCV 2021**).
- **Yujun Shi**, Li Yuan, Yunpeng Chen, Jiashi Feng. Continual Learning via Bit-Level Information Preserving. (**CVPR2021**).
- 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; (**TPAMI**).
- **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. (<https://arxiv.org/abs/1906.02494>)
- 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. (<https://arxiv.org/abs/1905.05928>)

Honors and Awards

NUS Research Scholarship (Jan. 2022 - Jan. 2025)

4-th place in MineRL@NeurIPS2019 competition (2019)

Nankai First Class Scholarship Award (2017, 2018)

National Scholarship Award (2016)

Outstanding Award in Tianjin Math Contest for College Students (2016)

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

Software Secondary Development (Based on ArchiCAD Platform) in the Design of Underground Pipe Gallery.

Time span: September 2016 - November 2016.

I cooperated with engineers from *North China Municipal Engineering Design & Research Institute Co. Ltd (NCMEDRI)* to develop an add-on for a CAD for architects called ArchiCAD.

Programming language: C++.

Skills

- Programming languages: C++/C(CUDA), Python, Matlab, Java
- Packages: Pytorch, TensorFlow, Caffe, Caffe2, OpenCV