

# YU PAN

HIT Campus of University Town of Shenzhen, Shenzhen, China  $\diamond$  P.C. 518055  
(+86)13980449598  $\diamond$  <https://yupan.me>  $\diamond$  [iperryuu@gmail.com](mailto:iperryuu@gmail.com)

## EDUCATION

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| <b>Harbin Institute of Technology, Shenzhen</b><br>Ph.D. Candidate in Computer Science and Technology      | <i>Feb. 2021 - Present</i>    |
| <b>University of Electronic Science and Technology of China</b><br>M.E. in Computer Science and Technology | <i>Sept. 2017 - June 2020</i> |
| <b>University of Electronic Science and Technology of China</b><br>B.E. in Automation                      | <i>Sept. 2013 - June 2017</i> |

## RESEARCH EXPERIENCE

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| <b>Statistical Machine Intelligence Learning Laboratory, HITSZ</b><br>· Adviser: Zenglin Xu<br>· Focus: Deep Neural Networks, Tensor Decomposition<br>· <b>Project:</b> Investigate combinations of tensor decomposition technique and deep neural networks on a variety of tasks, including model compression, defending adversarial example, etc. | <i>Sept. 2017 - Present</i>  |
| <b>Computer Vision Center, Tencent AI Lab, Shenzhen</b><br>· Adviser: Baoyuan Wu<br>· Focus: Adversarial Example, Pruning<br>· <b>Project:</b> Explore an efficient pruning method to improve the robustness of deep neural networks, mainly on defending adversarial examples.   | <i>July 2019 - Oct. 2019</i> |

## RESEARCH ACTIVITIES (\* REPRESENTS EQUAL CONTRIBUTION)

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### Publications

- **Yu Pan**, Jing Xu, Maolin Wang, Jinmian Ye, Fei Wang, Kun Bai, and Zenglin Xu. Compressing Recurrent Neural Networks with Tensor Ring for Action Recognition. AAAI, 2019.
- **Yu Pan\***, Nannan Li\*, Yaran Chen, Zixiang Ding, Dongbin Zhao, and Zenglin Xu. Heuristic Rank Selection with Progressively Searching Tensor Ring Network. Complex & Intelligent Systems, 2021.
- **Yu Pan**, Maolin Wang, and Zenglin Xu. TedNet: A Pytorch Toolkit for Tensor Decomposition Networks. Neurocomputing, 2022.
- Jing Xu, **Yu Pan**, Xinglin Pan, Kun Bai, Steven Hoi, Zhang Yi, and Zenglin Xu. RegNet: Self-Regulated Network for Image Classification. Conditionally Accept in TNNLS, 2022.
- Maolin Wang, Chenbin Zhang, **Yu Pan**, Jing Xu, and Zenglin Xu. Tensor Ring Restricted Boltzmann Machines. IJCNN, 2019.
- Maolin Wang, Zeyong Su, Xu Luo, **Yu Pan**, Shenggen Zheng, and Zenglin Xu. Concatenated Tensor Networks for Deep Multi-Task Learning. ICONIP, 2020.

### In Process

- **Yu Pan**, Zeyong Su, Ao Liu, Jingquan Wang, Nannan Li, and Zenglin Xu. A Unified Weight Initialization Paradigm for Tensorial Convolutional Neural Networks. Preparing for ICML, 2022.

- **Yu Pan\***, Maolin Wang\*, Xiangli Yang, Guangxi Li, and Zenglin Xu. Investigating Tensor Neural Network: A Survey. Preparing for TNNLS, 2022.
- Xinglin Pan, Jing Xu, **Yu Pan**, and Zenglin Xu. AFINets: Attentive Feature Integration Networks for Image Classification. Preparing for NEURAL NETWORKS, 2022.
- Jingquan Wang, Jing Xu, **Yu Pan**, and Zenglin Xu. Semantically Proportional Patchmix for Few-Shot Learning. Preparing for ICASSP, 2022.
- Langzhang Liang, Shiyi Chen, Cuiyun Gao, Shishi Duan, **Yu Pan**, Junjin Zheng, Lei Wang, and Zenglin Xu. Graph Partner Neural Networks for Semi-Supervised Learning on Graphs. Submitting in WWW, 2022.

### **Others**

- Reviewer of ICLR 2022, NeurIPS 2021, ICML 2021, NeurIPS 2020.
- Published several Python packages and an image annotation tool.
- Attended the AAAI 2019 Conference at Hawaii in 2019.
- Attended short-term communication in Japan in 2016.

### **AWARDS & SCHOLARSHIPS**

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The Outstanding Graduate Award, UESTC. 2019-2020

The Excellence in Student Award, UESTC. 2018-2019

The Major Academic Scholarship for Graduate Students, UESTC. 2018-2019