

# Yu Pan

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## EDUCATION

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**Harbin Institute of Technology, Shenzhen**

*Feb. 2021 - Present*

*Ph.D. Candidate in Computer Science and Technology*

**University of Electronic Science and Technology of China**

*Sept. 2017 - June 2020*

*M.E. in Computer Science and Technology*

**University of Electronic Science and Technology of China**

*Sept. 2013 - June 2017*

*B.E. in Automation*

## RESEARCH EXPERIENCE

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**Statistical Machine Intelligence Learning Laboratory, HITSZ, Shenzhen**

*Sept. 2017 - Present*

◦ Adviser: Prof. Zenglin Xu

◦ Focus: Deep Neural Networks, Tensor Decomposition

◦ **Project:** Investigating combinations of tensor decomposition technique and deep neural networks on a variety of tasks, including model compression, defending adversarial example, etc.

**Speech and Semantics Laboratory, Huawei Noah's Ark Lab, Shenzhen**

*April 2022 - Present*

◦ Adviser: Dr. Lifeng Shang & Dr. Yichun Yin

◦ Focus: Large-Scale Models, Training Efficiency

◦ **Project:** Researching on the mechanism for accelerating training process of large-scale models.

**Computer Vision Center, Tencent AI Lab, Shenzhen**

*July 2019 - Oct. 2019*

◦ Adviser: Prof. Baoyuan Wu

◦ Focus: Adversarial Example, Pruning

◦ **Project:** Exploring an efficient pruning method to improve the robustness of deep neural networks, mainly on defending adversarial examples.

## PUBLICATIONS (\* represents equal contribution)

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

◦ **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**, Maolin Wang, and Zenglin Xu. "TedNet: A Pytorch Toolkit for Tensor Decomposition Networks". Neurocomputing, 2022.

◦ **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.

◦ Jing Xu, **Yu Pan**, Xinglin Pan, Kun Bai, Steven Hoi, Zhang Yi, and Zenglin Xu. "RegNet: Self-Regulated Network for Image Classification". TNNLS, 2022.

- Jingquan Wang, Jing Xu, **Yu Pan**, and Zenglin Xu. “*Semantically Proportional Patchmix for Few-Shot Learning*”. ICASSP, 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**, Zekai Wu, Chaozheng Wang, Qifan Wang, Min Zhang, and Zenglin Xu. “*Identical Deterministic Initialization*”. Submitting in NeurIPS, 2022.
- **Yu Pan**<sup>\*</sup>, Maolin Wang<sup>\*</sup>, Xiangli Yang, Guangxi Li, and Zenglin Xu. “*Investigating Tensor Neural Network: A Survey*”. Preparing for TKDE, 2022.
- Xinglin Pan, Jing Xu, **Yu Pan**, and Zenglin Xu. “*AFINets: Attentive Feature Integration Networks for Image Classification*”. Submitting in NEURAL NETWORKS, 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*”. Preparing in ICDM, 2022.

## RESEARCH ACTIVITIES

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- Reviewer of ICML 2021-2022, NeurIPS 2020-2022, ICLR 2022.
- Published several Python packages and an image annotation tool.
- Attended 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