Yan Wang

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Education

- **Beijing University of Posts and Telecommunications** — Beijing, China
  M.S. in School of Computer Science, advised by Prof. Wendong Wang — *Sept. 2021 – present*
- **Beijing University of Posts and Telecommunications** — Beijing, China
  B.Eng of Telecommunications Engineering with Management; GPA: 3.7/4.0 — *Sept. 2017 – Jun. 2021*

Research Interests

- Machine learning, multi-modal and self-supervised learning as well as their applications
- Machine learning, image corruption and model robustness

Industrial Experience

- **SenseTime** — Beijing, China
  Research Intern — *Mar. 2021 – Nov. 2022*
  - Participated in the reproduction of multi-modal models CLIP and VirTex, improved the zero-shot performance of the model through self-supervised learning, and provided a stronger pretrained Backbone for SenseTime's Foundation Model "INTERN".
  - Researched and reproduced the work of contrastive learning on the object detection task. Reproduced the work of SoCo and improved it, providing a better two-stage detection pretrained Backbone for the downstream task, serving dozens of the company business.
  - Participated in the development of the general ML framework, responsible for the development and reproduction of image classification models, multi-modal models, and self-supervised models such as MoCo, SimSiam, and MAE. Provided higher-accuracy baseline checkpoints for earlier models. Serving hundreds of researchers in the company.
  - Participate in research on model robustness, exploring the impact of model structure and model training techniques on model robustness. Propose a new noise type and benchmark it on commonly used models

Publications

- **Yan Wang***, Yuhang Li*, Ruihao Gong*, Aishan Liu*, Yanfei Wang, Jian Hu, Yongqiang Yao, Yunchen Zhang, Tianzi Xiao, Fengwei Yu, Xianglong Liu "SysNoise: Exploring and Benchmarking Training-Deployment System Inconsistency" **MLSys2023.**
- Shiyu Tang*, Ruihao Gong*, **Yan Wang***, Aishan Liu* , Jiakai Wang, Xinyun Chen, Fengwei Yu, Xianglong Liu, Dawn Song, Alan Yuille, Philip H.S. Torr, Dacheng Tao "RobustART : Benchmarking Robustness on Architecture Design and Training Techniques" **Manuscript submitted to TPAMI.**
- **Yan Wang**, Yuhang Li, Ruihao Gong, Tianzi Xiao, Fengwei Yu "Real World Robustness from Systematic Noise" **ACM MM2022.**

*indicates equal contributions.

Selected Honors & Awards

- **National Scholarship** — Ministry of Education; 2018
- **Third Prize in National Undergraduate Mathematics Competition** — Ministry of Education; 2020
- **The First Prize Scholarship** — BUPT; 2021 & 2022

Additional Information

- **English Proficiency**: CET-4: 555; CET-6: 513
- **Programming Skills**: Python(proficient), C(familiar), Java(familiar), C++(basic)
- **Deep Learning Framework**: Pytorch(proficient), TensorFlow(basic)