



BOJIA ZI

3rd Year Master Student in Fudan University

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Education

Master | *Computer Science and Technology*
Fudan University

Sep. 2019 – Jun. 2022
Yangpu, Shanghai, China

Bachelor | *Software Engineering*
Shandong University(GPA: 89.25/100)

Sep. 2015 – Jun. 2019
Jinan, Shandong, China

Publication

Revisiting Adversarial Robustness Distillation: Robust Soft Labels Make Student Better

Bojia Zi*, Shihao Zhao*, Xingjun Ma, Yu-Gang Jiang

ICCV 2021

- *Identify the importance of distillation process and robust soft labels in adversarial training methods and propose an adversarial robustness distillation method called RSLAD.*

WildDeepfake: A Challenging Real-World Dataset for Deepfake Detection

Bojia Zi, Minghao Chang, Jingjing Chen, Xingjun Ma, Yu-Gang Jiang

ACM MM 2020

- *Propose a real-world Dataset for Deepfake detection and a novel method named Attention based Deepfake Detection Network(ADDNet).*

Projects

Deepfake Detection Challenge

Jan. 2020 – Apr. 2020

Kaggle Competition.

Held by Facebook, AWS and Microsoft, Silver Medal, Top 1.29%

- *Reprocess the videos in dataset, use the state-of-the-art data augmentation methods and ensemble 16 models(10 EfficientNets, 3 LSTMs and 3 transformers) in total to identify whether a video is generated or modified by Deepfake techniques.*

A Novel Method for Adversarial Denoise.

Sep. 2019 – Dec. 2019

Achieve SOTA at that time.

- *I empirically found that if the adversarial image is separated into "style" and "texture" and then reconstructed by auto-encoder, can remove most of the adversarial noise. Based on the above findings, I use a two-stream encoder to encode image features, and a single-stream decoder to reconstruct the image.*

High-performance Computing Based on Simulation of Ocean Data

Jun. 2018 – Aug. 2018

Research Assistant in HPC-Lab

- *Optimize the modeling algorithm of ocean wave data, use intel Vtune for algorithm hotspot mining, and find the "bottleneck" of the algorithm for optimization.*

Awards

DFDC in Kaggle Silver Medal(Top 1.29%)

Apr. 2020

QiMingXingChen Scholarship in Fudan University(Top 2%)

Sep. 2020

Second Honor Scholarship in Shandong University(Top 5%)

Sep. 2018

National University Student Software Innovation Competition Third Prize

Nov. 2017

Research Experience

Research Intern

Jun. 2021 – Sep. 2021

Supervised by Cihang Xie(University of California, Santa Cruz)

Research Assistant

Mar. 2016 – Aug. 2018

Supervised by Weiguo Liu(Shandong University)