

Wei Hongxin

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Education

Nanyang Technological University

Ph.D. student / Computer Science / Supervisor: Assoc.Prof. Bo An

January 2020 - Present

Huazhong University of Science and Technology

Bachelor / Software Engineering

September 2012 - June 2016

Research Interest

Artificial intelligence, robust deep learning, adversarial attack and defense, noisy label, out-of-distribution detection, weakly supervised learning.

Publications

- **Hongxin Wei**, Lei Feng, Xiangyu Chen, Bo An. Combating noisy labels by agreement: A joint training method with co-regularization, CVPR'20 accepted, pp.13726-13735.
- **Hongxin Wei**, Lue Tao, Renchunzi Xie, Bo An. Open-set Label Noise Can Improve Robustness Against Inherent Label Noise. NeurIPS'21 accepted.
- Rundong Wang*, **Hongxin Wei***, Bo An, Zhouyan Feng, Jun Yao. Commission Fee is not Enough: A Hierarchical Reinforced Framework for Portfolio Management. AAAI'21 accepted. (Co-first author)
- Lei Feng, **Hongxin Wei***, Qingyu Guo, Zhuoyi Lin, Bo An. Embedding-Augmented Generalized Matrix Factorization for Recommendation with Implicit Feedback. IEEE Intelligent Systems (IEEE-IS), in press. (Corresponding author)
- **Hongxin Wei**, Lei Feng, Rundong Wang, Bo An. MetaInfoNet: Learning Task-Guided Information for Sample Reweighting. Preprints.
- **Hongxin Wei**, Renchunzi Xie, Lei Feng, Bo Han, Bo An. Deep Learning from Multiple Noisy Annotators as A Union. Preprints.
- **Hongxin Wei**, Lue Tao, Renchunzi Xie, Lei Feng, Bo An. Open-Sampling: Re-balancing Long-tailed datasets with Out-of-Distribution data. Preprints.
- Renchunzi Xie, **Hongxin Wei**, Lei Feng, Bo An. GearNet: Stepwise Dual Learning for Weakly Supervised Domain Adaptation. Preprints. (Corresponding author)

Work Experience

Nanyang Technological University

Project Officer

July 2018 - Present

TsingHua University

Research Assistant

June 2017 - June 2018

- Working on applications of AI and economics to large-scale online environments.
- Designing algorithm for Quantitative Finance based on Deep Artificial Neural Networks.

Rajax Corp

AI Product Manager

July 2016 - May 2017

- Designing business analysis system for BD department: providing statistics models and data visualization for business metrics, including monitor and predictor;
- Designing quality auto-audit System of big data.

Internship

WeBank(Tencent)

AI scientist

June 2019 - September 2019

- Working on optimizing portfolio management with reinforcement learning.

Zhihu.com*March 2016 - June 2016**Data Product Manager*

- Working on optimizing content recommendation algorithm, the click rate increased by 20% as a result.

Kika.tech*July 2015 - January 2016**Software Engineer*

- Working on advertisement and GIF recommendation Module: Developing the recommendation service for short-term advertisement; Developing the online emoji/GIF recommendation models;

Personal Projects

RussellCloud*April 2017 - Present*

- A Cloud GPU platform for data scientists to train and deploy deep learning and AI applications.

Award

- **Gold Medal** of the 1st China College Students' Entrepreneurship Competition.
- **Third Prize** of the 7th "Intel Cup" National Undergraduate Software Innovation Competition.