

# Wei Hongxin <hongxin001@e.ntu.edu.sg>

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## Education

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**Nanyang Technological University**

*January 2020 - Present*

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

**Huazhong University of Science and Technology**

*September 2012 - June 2016*

*Bachelor / Software Engineering*

## Research Interest

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

## Publications

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- **Hongxin Wei**, Lue Tao, Renchunzi Xie, Bo An. Open-set Label Noise Can Improve Robustness Against Inherent Label Noise. NeurIPS'21 accepted.
- **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.
- Renchunzi Xie, **Hongxin Wei\***, Lei Feng, Bo An. GearNet: Stepwise Dual Learning for Weakly Supervised Domain Adaptation. AAAI'22 accepted. (Corresponding author)
- 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**, Renchunzi Xie, Lei Feng, Bo Han, Bo An. Deep Learning from Multiple Noisy Annotators as A Union. Submitted to TNNLS.
- **Hongxin Wei**, Lue Tao, Renchunzi Xie, Lei Feng, Bo An. Open-Sampling: Re-balancing Long-tailed datasets with Out-of-Distribution data. Submitted to CVPR 2022.
- **Hongxin Wei**, Lei Feng, Rundong Wang, Bo An. MetaInfoNet: Learning Task-Guided Information for Sample Reweighting. Preprints.

## Work Experience

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**Nanyang Technological University**

*July 2018 - Present*

*Project Officer*

**TsingHua University - IIIS**

*June 2017 - June 2018*

*Research Assistant / Working with Assoc. Prof. Pingzhong Tang*

- 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**

*July 2016 - May 2017*

*AI Product Manager*

- 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

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**WeBank(Tencent)**

*June 2019 - September 2019*

*AI scientist*

- Working on optimizing portfolio management with reinforcement learning.

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

- Working on optimizing content recommendation algorithm.

**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**

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**RussellCloud***April 2017 - Present*

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

**Award**

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