

Hongxin Wei

PERSONAL INFORMATION

Ph.D. Candidate, Nanyang Technological University, Singapore.

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Date of Birth: December 23, 1995

Nationality: China

Gender: Male

EDUCATION

- **Nanyang Technological University, Singapore** Jan 2020 - Present
Ph.D. in Computer Science. Supervised by Prof. Bo An.
- **Huazhong University of Science and Technology, Wuhan, China** Sep 2012 - Jul 2016
B.E. in Software Engineering.

RESEARCH APPOINTMENTS

- **Project Officer** (Aug 2018 - Present): School of Computer Science and Engineering, Nanyang Technological University, Singapore.
- **Research Intern** (Jun 2019 - Sep 2019): WeBank (Tencent), China.

RESEARCH INTERESTS

Research topics that I am currently working on include:

- Learning with (open-set) noisy labels
- Out-of-distribution detection
- Uncertainty estimation

PUBLICATIONS ([†]equal contribution; *corresponding author)

Published Papers

10. **Hongxin Wei**, Renchunzi Xie, Hao Cheng, Lei Feng, Bo An, Sharon Li. Mitigating Neural Network Overconfidence with Logit Normalization. *Proceedings of the 39th International Conference on Machine Learning (ICML'22)*, accepted.
9. **Hongxin Wei**, Lue Tao, Renchunzi Xie, Lei Feng, Bo An. Open-sampling: Re-balancing Long-tailed Datasets with Out-of-Distribution Data. *Proceedings of the 39th International Conference on Machine Learning (ICML'22)*, accepted.
8. **Hongxin Wei**, Renchunzi Xie, Lei Feng, Bo Han, Bo An. Deep Learning from Multiple Noisy Annotators as A Union. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*.
7. Renchunzi Xie, **Hongxin Wei***, Lei Feng, Bo An. GearNet: Stepwise Dual Learning for Weakly Supervised Domain Adaptation. *Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'22)*, 2022.

6. **Hongxin Wei**, Lue Tao, Renchunzi Xie, Bo An. Open-set Label Noise Can Improve Robustness Against Inherent Label Noise. *Proceedings of the 35th Annual Conference on Neural Information Processing Systems (NeurIPS'21)*, 2021.
5. Lei Feng, Senlin Shu, Yuzhou Cao, Lue Tao, **Hongxin Wei**, Tao Xiang, Bo An, Gang Niu. Multiple-Instance Learning from Similar and Dissimilar Bags. *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data (KDD'21)*, pp.374-382, 2021.
4. Ziqi Zhang, Yuexiang Li, **Hongxin Wei**, Kai Ma, Tao Xu, Yefeng Zheng. Alleviating Noisy-label Effects in Image Classification via Probability Transition Matrix. *Proceedings of the 32nd British Machine Vision Conference (BMVC'21)*, 2021.
3. Rundong Wang[†], **Hongxin Wei**[†], Bo An, Zhouyan Feng, Jun Yao. Commission Fee is not Enough: A Hierarchical Reinforced Framework for Portfolio Management. *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI'21)*, pp.626-633, 2021.
2. 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.
1. **Hongxin Wei**, Lei Feng, Xiangyu Chen, Bo An. Combating noisy labels by agreement: A joint training method with co-regularization, *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR'20)*, pp.13726-13735, 2020.

Preprints (Under-Review Submissions)

4. Lue Tao, Lei Feng, **Hongxin Wei**, Jinfeng Yi, Shengjun Huang, Songcan Chen. Can Adversarial Training Be Manipulated By Non-Robust Features?
3. Huiping Zhuang, Zhenyu Weng, **Hongxin Wei**, Renchunzi Xie, Toh Kar-Ann, Zhiping Lin. Analytic Class-Incremental Learning with Absolute Memorization and Privacy Protection
2. Senlin Shu, Dengbao Wang, Suqin Yuan, **Hongxin Wei**, Jiuchuan Jiang, Lei Feng, Minling Zhang. Multiple-Instance Learning from Triplet Comparison Bags.
1. **Hongxin Wei**, Lei Feng, Rundong Wang, Bo An. Learning to Learn Task-Guided Information for Sample Reweighting.

ACADEMIC SERVICES

Conference Program Committee Member (Reviewer):

- Neural Information Processing Systems (NeurIPS): 2021 (Outstanding Reviewer Award), 2022
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR): 2022
- International Conference on Machine Learning (ICML): 2021, 2022
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2021, 2022
- International Conference on Learning Representations (ICLR): 2022
- SIAM International Conference on Data Mining (SDM): 2022