

王少博

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🎓 教育背景

- 上海交通大学, 人工智能, 博士 2024.09 – 2028.06 (预计)
导师: 张林峰助理教授, 研究方向: 高效、可解释的深度学习, 大模型
- 上海交通大学, 计算机科学与技术, 硕士 2022.09 – 2024.09
导师: 严骏驰教授, 研究方向: 深度学习理论, 可解释性机器学习
GPA: 3.98/4.0, 排名: 2/81
- 哈尔滨工业大学, 软件工程, 本科 2018.09 – 2022.06
GPA: 3.96/4.0, 排名: 1/181

📄 代表性成果 († 表示同等贡献)

Direction 1: Efficient Data-Centric AI

Data Whisperer: Efficient Data Selection for Task-Specific LLM Fine-Tuning via Few-Shot In-Context Learning [1]

under submission to ACL 2025

Shaobo Wang, Ziming Wang, Xiangqi Jin, Jize Wang, Jiajun Zhang, Kaixin Li, Zichen Wen, Zhong Li, Conghui He, Xuming Hu, Linfeng Zhang.

Stop Looking for “Important Tokens” in Multimodal Language Models: Duplication Matters More [2]

under submission to ACL 2025

Zichen Wen, Yifeng Gao, Shaobo Wang, Junyuan Zhang, Qintong Zhang, Weijia Li, Conghui He, Linfeng Zhang

Dataset Distillation with Neural Characteristic Function: A Minmax Perspective [3]

under submission to CVPR 2025

Shaobo Wang, Yicun Yang, Zhiyuan Liu, Chenghao Sun, Xuming Hu, Conghui He, Linfeng Zhang.

Rethink Dataset Pruning From A Generalization Perspective [4]

under submission to ICLR 2025

Furui Xu†, Shaobo Wang†, Zhongwei Luo, Linfeng Zhang.

DRUPI: Dataset Reduction Using Privileged Information [5]

under submission to ICCV 2025

Shaobo Wang, Yantai Yang, Shuaiyu Zhang, Xuming Hu, Linfeng Zhang.

Not All Samples should be Utilized Equally: Towards Understanding and Improving Dataset Distillation [6]

under submission to ICCV 2025

Shaobo Wang, Yantai Yang, Qilong Wang, Kaixin Li, Linfeng Zhang, Junchi Yan.

Direction 2: (Efficient) Explainable & Interpretable Deep Learning

Gnothi Seauton: Empowering Faithful Self-Interpretability in Black-Box Models [7]

The Thirteenth International Conference on Learning Representations (ICLR 2025)

Shaobo Wang, Hongxuan Tang, Mingyang Wang, Hongrui Zhang, Xuyang Liu, Xuming Hu, Linfeng Zhang.

Direction 3: Deep Learning Theory

Unveiling Induction Heads: Provable Training Dynamics and Feature Learning in Transformers [8]

The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS 2024)
Siyu Chen, Heejune Sheen, Shaobo Wang, Tianhao Wang, Zhuoran Yang.

Trap of Feature Diversity in the Learning of MLPs [9]

arXiv preprint, 2021
Dongrui Liu[†], Shaobo Wang[†], Jie Ren, Kangrui Wang, Sheng Yin, Huiqi Deng, Quanshi Zhang.

Other Directions

Unified Batch Normalization: Identifying and Alleviating the Feature Condensation in Batch Normalization and a Unified Framework [10]

arXiv preprint, 2023
Shaobo Wang, Xiangdong Zhang, Dongrui Liu, Junchi Yan.

Visualizing the Emergence of Intermediate Visual Patterns in DNNs [11]

The Thirty-Five Annual Conference on Neural Information Processing Systems (NeurIPS 2021)
Mingjie Li, Shaobo Wang, Quanshi Zhang.

Think2Drive: Brick by Brick to Build a Model-based RL Agent for Quasi-Realistic Autonomous Driving (in CARLA-v2) [12]

The 18th European Conference on Computer Vision (ECCV 2024)
Qifeng Li, Xiaosong Jia, Shaobo Wang, Junchi Yan.

科研实习经历

中国工商银行，大数据与人工智能部门 科研实习生（大模型）	2024.09 – 至今
上海交通大学 EPIC lab 科研助理（高效深度学习、可解释深度学习），师从张林峰助理教授	2024.03 – 至今
上海交通大学 ReThinklab 硕士研究生（深度学习理论、机器学习、计算机视觉），师从严骏驰教授	2023.08 – 至今
耶鲁大学统计与数据科学系 科研实习（大模型理论），师从杨卓然助理教授	2024.03 – 至今

主要获奖情况

国家奖学金 哈尔滨工业大学，中国教育部	2019
哈尔滨工业大学优秀毕业生 哈尔滨工业大学	2022
哈尔滨工业大学（威海）最具影响力毕业生 哈尔滨工业大学（威海）	2022
山东省优秀毕业生 哈尔滨工业大学，山东省教育部	2022