

Shaobo Wang | M.Eng. Student at SJTU

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Education

Shanghai Jiao Tong University

Computer Science, advised by Prof. Junchi Yan, Research Area: Explainable AI
Rank: 2/81, GPA: 3.98/4.0

M.Eng.
Sept 2022 – Mar 2025 (expected)

Harbin Institute of Technology

Software Engineering
Rank: 1/203, GPA: 3.96/4.0

B.Eng.
Sept 2018 – Jun 2022

Harvard University & Massachusetts Institute of Technology

Artificial Intelligence and Robotics

Visiting Program
Aug 2020

Publications & Preprints

* denotes equal contribution.

Visualizing the Emergence of Intermediate Visual Patterns in DNNs

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

R01

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

arxiv preprint, under submission, 2023
Shaobo Wang, Xiangdong Zhang, Junchi Yan

R02

Trap of Feature Diversity in the Learning of MLPs

arxiv preprint, under submission, 2022
Dongrui Liu*, Shaobo Wang*, Jie Ren, Kangrui Wang, Sheng Yin, Huiqi Deng, Quanshi Zhang

R03

Extracting Consistent Attribution Values *w.r.t.* Different Partitions of Input Variables

under submission, 2023
Shaobo Wang*, Huiqi Deng*, Hanying Zhang, Quanshi Zhang.

R04

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

under submission, 2023
Qifeng Li, Xiaosong Jia, Shaobo Wang, Junchi Yan

R05

Academic Services

Conference Reviewer:

ICML 2022-2024, NeurIPS 2022-2023, CVPR 2023-2024, EMNLP 2022-2023, ACL 2023

Research Experience

Research Intern

John Hopcroft Center for Computer Science, Shanghai Jiao Tong University
Explainable AI, under supervision of Prof. Quanshi Zhang.

Jun 2020 – Jun 2022

Research collaboration

Microsoft Research Asia, Social Computing Group
Responsible AI, under supervision of Dr. Xiting Wang.

Jun 2022 – Dec 2022

Research Intern

*Institute for Interdisciplinary Information Sciences, Tsinghua University
Multimodal Learning, under supervision of Prof. Hang Zhao.*

Feb 2021 – Jun 2021

Research Intern

*Department of Earth System Science, Tsinghua University
Remote Sensing, under supervision of Dr. Zhichao Li.*

Mar 2020 – July 2020

Selected Honors and Awards

Most Influential Graduate Student (< 0.05%)

Harbin Institute of Technology

Mar 2022

Outstanding Graduate Student

Shandong Province, China

Mar 2022

Outstanding Graduate Student

Harbin Institute of Technology

Mar 2022

National Scholarship

Ministry of Education, China

Oct 2019

Competitive Skills & Hobbies

- **TOEFL iBT:** 103 Listening(28), Speaking(22), Reading(26), Writing(27)
- **Deep Learning Frameworks:** Pytorch, TensorFlow(2.0), Fast.ai.
- **Programming Languages:** C, C++, Java, Python, L^AT_EX, HTML/CSS/Javascript.
- **Chess:** National Level-2 Athlete, championship record holder in Anhui, China.
- **Piano:** Co-played with Lang Lang (one of the Most Talented Pianists in the world).
- **Vocal:** Multiple awards in vocal and singing competitions.