Shaobo Wang | M.Eng. Student at SJTU

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Education

Shanghai Jiao Tong University   **M.Eng.**
Computer Science, advised by Prof. Junchi Yan   *Sept 2022 – Mar 2025 (expected)*
Research Area: Autonomous Driving, Explainable AI, GPA: 3.98/4.0

Harbin Institute of Technology   **B.Eng.**
Software Engineering   *Sept 2018 – Jun 2022*
Rank: top 1% among 203 students, GPA: 3.96/4.0

Harvard University & Massachusetts Institute of Technology   **Visiting Program**
Artificial Intelligence and Robotics   *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*)   *R01*
Mingjie Li, Shaobo Wang, Quanshi Zhang.

Unified Batch Normalization: Identifying and Alleviating the Feature Condensation in Batch Normalization and a Unified Framework
arxiv preprint, under submission, 2023   *R02*
Shaobo Wang, Xiangdong Zhang, Junchi Yan

Trap of Feature Diversity in the Learning of MLPs
arxiv preprint, under submission, 2022   *R03*
Dongrui Liu*, Shaobo Wang*, Jie Ren, Kangrui Wang, Sheng Yin, Huiqi Deng, Quanshi Zhang

Extracting Consistent Attribution Values *w.r.t.* Different Partitions of Input Variables
under submission, 2023   *R04*
Shaobo Wang*, Huiqi Deng*, Hanying Zhang, Quanshi Zhang.

Think2Drive: Brick by Brick to Build a Model-based RL Agent for Quasi-Realistic Autonomous Driving (in CARLA-v2)
under submission, 2023   *R05*
Qifeng Li, Xiaosong Jia, Shaobo Wang, Junchi Yan

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   *Jun 2020 – Jun 2022*
Explainable AI, under supervision of Prof.Quanshi Zhang.

Research collaboration
Microsoft Research Asia, Social Computing Group   *Jun 2022 – Dec 2022*
Responsible AI, under supervision of Dr.Xiting Wang.

Research Intern

Institute for Interdisciplinary Information Sciences, Tsinghua University *Feb 2021 – Jun 2021*
Multimodal Learning, under supervision of Prof.Hang Zhao.

Research Intern

Department of Earth System Science, Tsinghua University *Mar 2020 – July 2020*
Remote Sensing, under supervision of Dr.Zhichao Li.

Selected Honors and Awards

Most Influential Graduate Student ($< 0.05\%$)
Harbin Institute of Technology *Mar 2022*

Outstanding Graduate Student ($< 1\%$)
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, LaTeX, 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.