

# Shaobo Wang | M.Eng. Student at SJTU

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## Education

### Shanghai Jiao Tong University

Computer Science

Research Area: Explainable AI, Machine Learning, GPA: 3.98/4.0

M.Eng.

Sept 2022 – Mar 2025 (expected)

### Harbin Institute of Technology

Software Engineering

Rank: top 1% among 203 students. 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

### Trap of Feature Diversity in the Learning of MLPs

arxiv preprint

Dongrui Liu\*, Shaobo Wang\*, Jie Ren, Kangrui Wang, Sheng Yin, Huiqi Deng, Quanshi Zhang.

R02

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

to be submitted to ICLR 2024

Shaobo Wang\*, Huiqi Deng\*, Hanying Zhang, Quanshi Zhang.

R03

## Academic Services

Conference Reviewer: ICML 2022/2023, NeurIPS 2022/2023, EMNLP 2022/2023, CVPR 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.

- Worked on visualizing neural networks temporarily and spatially to improve interpretability[R01].
- Investigated and theoretically explained a fundamental yet counter-intuitive two-phase phenomenon of feature diversity in the early learning of MLPs[R02].

### 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

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### Most Influential Graduate Student

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

## Selected Extracurricular Activities

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### Public Student Service

up to 1k+ students got benefits from my service.

- **Class Commissary in charge of Study:** Organized several academic lectures.
- **Counselor Assistant:** Provided consulting and activity arrangements service.
- **Teaching Assistant:** Calculus, Probabilistic Theory, Machine Learning.

### Public Volunteer Service

more than 463K views were received in social media.

- **Founder and Lecturer of HITwh Lectures Group:** Recorded videos in Bilibili Platform(one of the most popular video platforms in China) with more than 463K views.
- **COVID-19 Service:** Helped in measuring temperature of incoming and outgoing people in Community Pandemic Prevention and Control Center, Hefei, China.
- **English Translator:** Offered English translation service for students from UK, Australia, South Korea, etc.

## Competitive Skills & Hobbies

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- **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<sup>A</sup>T<sub>E</sub>X, 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.