

## **Jinhua Si**

College of Intelligence and Computing (Artificial Intelligence),

Tianjin University, Tianjin China

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Date of birth: April 13, 2004

Nationality: China

## **Education**

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**Tianjin University** Tianjin, China

undergraduate in College of Intelligence and Computing (Artificial Intelligence)  
Sept. 2022 – Present

- GPA: 89.15/100.00
- Selected awards: Tianjin University Comprehensive Excellence Scholarship (top 30%, awarded to those with outstanding performance in Tianjin University)
- Selected to ‘Future Technology College’ in Tianjin University(one of the first 12 Future Technology College construction units in China)

## **Research Experience**

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### **Lab of Machine Learning and Data Mining**

Tianjin University (College of Intelligence and Computing) Tianjin, China

Research Assistant to Dr.Pengfei Zhu And Dr.Changqing Zhang Oct. 2022 – May. 2023

### **Software Engineering Team**

Tianjin University (College of Intelligence and Computing) Tianjin, China

Research Assistant to Dr.Junjie Chen Dec. 2023 – Dec. 2024

- I investigated treating logs as natural language to obtain semantic information about log events and representing them as semantic vectors to detect anomalies.

### **Visual Computing Team**

Tianjin University (College of Intelligence and Computing) Tianjin, China

Research Assistant to Dr.Fanhua Shang Jul. 2024 – now

- I researched how to improve the optimization algorithms Sharpness-Aware Minimization (SAM) and Stochastic Weight Averaging (SWA) to enhance their performance, and I thoroughly investigated their underlying mathematical principles. I then applied them to adversarial example attacks to assess their effectiveness.
- Planning to submit our paper to NIPS 2025

## **Selected Awards and Honors**

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- Tianjin University Comprehensive Excellence Scholarship (top 30%, awarded to those with outstanding performance)
- First Prize in the Provincial Division of the National Olympiad in Informatics in Provinces (NOIP) 2020
- First Prize in the Provincial Division of the Chinese High School Mathematics League 2020
- Second Prize in the National High School Physics Competition 2021

## **Additional Information**

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### **Interests**

- I have a passion for playing Go and started learning it at the age of 5. I achieved third place in the "San Yi Cup" National Dan Promotion Tournament and have ranked in the top ten multiple times in the Shandong Youth and Children Championships.

### **Language Skills**

- Achieved a TOEFL score of 95 in 2023.

## **Some Completed AI, Computer Science, and Math Courses with Grades**

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- Introduction to Programming in C/C++ 99
- Data Mining 98
- Natural Language Processing 97
- Algorithms 96
- Machine Learning 95
- Knowledge Graph 95
- Mathematical Analysis 92

- Introduction to Optimization Theory 91
- Knowledge Engineering 92