

Hao Ma

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🌐 <https://haoma2772.github.io/>



Education

- Undergraduate, School of Computer Science and Technology, Shanndong University, 2021-2025

Research Interest

- Federated Learning
- Artificial Intelligence Security

Research Publications

Journal Articles

- 1 Senmao Qi, **Hao Ma**, Yifei Zou, Dongxiao Yu, Peng Li, and Xiuzhen Cheng, “A backdoor resilient approach for federated edge learning with fragment-sharing,” Submitted to JSA.
- 2 Senmao Qi, **Hao Ma**, Yifei Zou, Dongxiao Yu, Peng Li, and Xiuzhen Cheng, “Fragment-sharing is enough to backdoor a giant model in federated learning,” Submitted to Big Data Mining and Analytics 2023.

Conference Proceedings

- 1 Senmao Qi, **Hao Ma**, Yifei Zou, Yuan Yuan, Peng Li, and Dongxiao Yu, “Fed-ms: Fault tolerant federated edge learning with multiple byzantine servers,” Submitted to ICDCS 2024.

Skills

- Languages: CET6-493
- Coding: Python, C++, Matlab, \LaTeX ,
- Qualities: Good team work and communication skills

Miscellaneous Experience

Awards and Achievements

- Second Class Prize in ChinaUndergraduate Mathematical Contest in Modelling, Shandong Province, 2023.
- Second class of Academic Innovation Award of Shandong University Special Talents Scholarship, 2023.
- Second Class Academic Scholarship of Shandong University, 2022 and 2023.
- National Encouragement scholarship of Shandong University, 2022 and 2023.
- Second Class Prize in Chinese Mathematics Competitions, Shandong Province, 2022.
- Second Class Prize in the Mathematical Competition of Senior High School of China Shandong Province, 2020.

Academic Experience

- GPA: 89.347 (rank: 11.1%, 22/197).
- Research Assistant: 2022-now, Institute of Intelligent Computing.

Miscellaneous Experience (continued)

- **Computer Elite Class:** member of Computer Elite Class , 2021, which is committed to cultivating future excellent top talents in computer science and leading figures in the IT industry