

# Hao Ma

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🌐 <https://haoma2772.github.io/>



## Education

- Undergraduate, School of Computer Science and Technology, Shandong University, 2021-2025.  
GPA: 89.347 (11.1%, 22/197), Computer Elite Class, Research Assistant of IIC.

## Research Interest

- Federated Learning
- Online Learning
- Robust Algorithm Design

## Research Publications

- 1 Hao Ma, Senmao Qi, Jiayue Yao, Yuan Yuan, Yifei Zou, and Dongxiao Yu, “Fed-NAD: Backdoor Resilient Federated Learning via Neural Attention Distillation,” Accepted by IEEE IDS 2024.
- 2 Senmao Qi, Hao Ma, Yifei Zou, Dongxiao Yu, Peng Li, and Xiuzhen Cheng, “A Backdoor Resilient Approach for Federated Edge Learning with Fragment-Sharing,” JSA, under minor revision.
- 3 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,” Accepted by Big Data Mining and Analytics 2023.
- 4 Senmao Qi, Hao Ma, Yifei Zou, Yuan Yuan, Peng Li, and Dongxiao Yu, “Fed-MS: Fault Tolerant Federated Edge Learning with Multiple Byzantine Servers,” Accepted by IEEE ICDCS 2024.
- 5 Senmao Qi, Yifei Zou, Hao Ma, Dongxiao Yu, Peng Li, and Xiuzhen Cheng, “No Backdoor in Decentralized Federated Learning: a Multi-armed Bandit-based Knowledge Distillation Approach,” Submitted to CCS, Apr. 2024.

## Skills

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

## Miscellaneous Experience

### Awards and Achievements

- Second Class Prize in CUMCM, Shandong Province, 2023.
- Second class 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 CMC, Shandong Province, 2022.
- Second Class Prize in the CMS, Shandong Province, 2020.