
EDUCATION

- **Nanjing University of Aeronautics and Astronautics** Nanjing, China
Bachelor of Engineering in Information Security; GPA: 82% Sept. 2016 – Jun. 2020
- **Nanjing University of Aeronautics and Astronautics** Nanjing, China
Master of Engineering in Cyberspace Security Sept. 2020 – Apr. 2023
- **Nanyang Technological University** Singapore
Pursuing Doctor of Philosophy in School of Computer Science and Engineering Aug. 2023 –

RESEARCH EXPERIENCES

- **Blockchain:** 2017.12 – 2019.12
 - Blockchain and its application; Smart contract design and game analysis; Computational intensive contract; Blockchain based trustworthy distributed machine learning.
- **Federated Learning:** 2020.03 –
 - Trustworthy federated learning (**ongoing**)

PUBLICATIONS

- **Conferences:**
 - (**AAAI-22**) **Bo Zhao**, Peng Sun*, Tao Wang and Keyu Jiang, “FedInv: Byzantine-Robust Federated Learning by Inversing Local Model Updates,” in *Proceedings of the AAAI Conference on Artificial Intelligence*, 2022. (**CCF-A, main track oral, accept rate=5%**)
 - (**ICC-23**) **Bo Zhao**, Tao Wang, Liming Fang*, “FedCom: Byzantine-Robust Federated Learning Using Data Commitment,” in *Proceedings of the IEEE International Conference on Communications*, 2023. (**CCF-C**)
 - (**ICPADS-22**) Tao Wang, **Bo Zhao**, Liming Fang*, “FLForest: Byzantine-robust Federated Learning through Isolated Forest,” in *Proceedings of the International Conference on Parallel and Distributed Systems*, 2022. (**CCF-C**)
- **Journals:**
 - (**Sensors**) **Bo Zhao**, Liming Fang*, Hanyi Zhang, Chunpeng Ge, Weizhi Meng, Liang Liu and Chunhua Su, “Y-DWMS: A digital watermark management system based on smart contracts,” *Sensors*, 2019. (**SCI, IF=3.576**)
 - (**IEEE Network**) Liming Fang, **Bo Zhao**, Yang Li, Zhe Liu*, Chunpeng Ge and Weizhi Meng, “Countermeasure based on smart contracts and AI against DoS/DDoS attack in 5G circumstances,” *IEEE Network*, 2020. (**SCI, IF=10.693**)

PROJECTS

- **Self-funding Project:** 2020.01 – , host, ongoing
 - An experimental platform for Byzantine-robust federated learning and poisoning attacks.
 - Integrating mainstream federated learning baselines (FedAvg, Multi-Krum, Zeno, FLTrust, FedGen, several ongoing projects, etc.), and representative poisoning attacks (Back-gradient, Adaptive attack, Badnets, Backdoor FL, etc.).
- **National Key R&D Program of China:** 2021.12 – 2024.11, participant, ongoing
 - Title: “AI Security Defence and Evaluation Technology” (under Grant 2021YFB3100700, RMB 3,000,000).
 - Student leader of federated learning security task force.
- **NCAA Undergraduate Innovation Project:** 2017.12 – 2018.05, principal participant, accomplished
 - Title: “Blockchain based Voting System”.
 - Lead to implement a PoW blockchain prototype to record voting logs and make statistics.

ACADEMICAL SERVICES

- **PC Member:** FL-IJCAI’23
- **Reviewer:** TNNLS, CIKM’23

AWARDS

- National Scholarship, Ministry of Education, PRC, 2022. ([Top 3%](#))
- First Class Academic Scholarship, NUAA Graduate School, 2020, 2021, 2022. ([Top 30%](#))
- Special Scholarship for Freshmen, NUAA Graduate School, 2020.
- NUAA Outstanding Graduate, NUAA Graduate School, 2023.
- NUAA Outstanding Individual of Research & Innovation, NUAA Graduate School, 2021, 2022.
- NUAA Merit Student, NUAA Graduate School, 2022.