

Jie Peng

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Education

Harbin Institute of Technology

Sept 2022 – March 2025

Master of Engineering in Cyberspace Security

- Score: 89.10/100
 - **Advisors:** Prof. Hui He and Prof. Weizhe Zhang
 - **Coursework:** Combinatorial Optimization and Convex Optimization (97/100), Data Mining: Algorithms and Applications (98/100), Network and Information Security (94/100)

Harbin Institute of Technology

Sept 2018 – June 2022

Bachelor of Engineering in Computer Science and Information Security

- Score: 89.47/100
 - **Coursework:** Set Theory and Graph Theory (93/100), Computer System (94/100), Introduction to machine learning (93/100), Cryptography Theory and Practice (96/100), Information Content Security (95/100)

Publications

- **Jie Peng**, Hongwei Yang, Jing Zhao, Hengji Dong, Hui He, Weizhe Zhang and Haoyu He. “Circumventing Backdoor Space via Weight Symmetry”. ([ICML 2025](#) , [arXiv](#) , [Code](#))
 - **Jie Peng**, Hongwei Yang, Hui He, Jing Zhao, Haoyu He, Hengji Dong and Weizhe Zhang. “LS²: Boosting Hidden Separation for Backdoor Defense with Learning Speed-driven Label Smoothing”. ([TIFS](#) , [Code](#))
 - Jing Zhao, Hongwei Yang, Hui He, **Jie Peng**, Weizhe Zhang, Jiangqun Ni, Arun Kumar Sangaiah, and Aniello Castiglione. “Backdoor Two-Stream Video Models on Federated Learning”. ACM Transactions on Multimedia Computing, Communications, and Applications ([TOMM](#))

Awards and Honors

Runner-up , The 7th Qiangwang International Elite Challenge on Cyber Mimic Defense (AI Track), 2024
(Team: HiddenFace) ([View](#) , [Certificate](#) )

- Developed adversarial attacks on face recognition systems without requiring attacker-specific model retraining, enhancing attack transferability and robustness under mimic defense scenarios. ([Code ↗](#))

First-Class Scholarship for outstanding academic performance ([View ↗](#))

2023 - 2025

Second-Class Scholarship for outstanding academic performance

2022 - 2023

Industry Experience

Shanghai Pudong Development Bank (SPD BANK, Shanghai)

May 2024 – August 2024

- Participated in developing a Graph-based Anomaly Detection algorithm within a federated learning setting to identify financial fraud patterns while maintaining data privacy
 - Implemented the solution using FATE framework (Federated AI Technology Enabler), enabling secure and efficient collaboration between multiple financial institutions.
 - Tools Used: Python, PyTorch, FATE

Additional Information

Skilled at: C, Java, Python, SQL, L^AT_EX

Languages: Mandarin (native), English (Proficient, IELTS band score 7)