

Jie Peng

✉ jie.peng1004@gmail.com 🔗 <https://jiepeng104.github.io/>

Education

Harbin Institute of Technology

Sept 2018 – June 2022

Bachelor of Engineering in Computer Science and Information Security

- Score: 89.32/100
- **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)

Harbin Institute of Technology

Sept 2022 – June 2025

Master of Engineering in Computer 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)

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](#) 🔗)
- **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”. ([Under Review](#), [PDF](#) 🔗)
- 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**) 🔗

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

Industry Experience

State Key Laboratory of Communication Content Cognition (Beijing)

April 2023 - Sept 2023

- Developed back-end services using Spring Boot and MyBatis for a social media analytics platform, enhancing data processing capabilities.
- Created a web crawler for Twitter using Selenium, collecting over one million data points and user information to train machine learning models, increasing data volume by 50%.
- Tools Used: Java, Python, Selenium

Additional Information

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

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