

# Jie Peng

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## Education

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### Harbin Institute of Technology

Sept 2018 – June 2022

*Bachelor of Engineering in Computer Science and Information Security*

- GPA: 3.73/4.00
- **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 – Jan 2025

*Master of Engineering in Computer Security*

- GPA: 3.4/4.00
- **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

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- **Jie Peng**, Hongwei Yang, Jing Zhao, Hengji Dong, Hui He, Weizhe Zhang and Haoyu He. “Circumventing Backdoor Space via Weight Symmetry”. (**Under Review**)
- **Jie Peng**, Hongwei Yang, Hui He, Jing Zhao, Haoyu He, Hengji Dong and Weizhe Zhang. “LS<sup>2</sup>: Boosting Hidden Separation for Backdoor Defense with Learning Speed-driven Label Smoothing”. (**Under Review**) [🔗](#)
- 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

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**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

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### 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

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**Skilled at:** C, Java, Python, SQL, L<sup>A</sup>T<sub>E</sub>X

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