

Peiran Wang

Sichuan University, Chengdu, China, 10610

Email: whilebug@gmail.com | Tel: +86-17883693551

Education

- 09/2018 – Present Sichuan University, Chengdu, China
- Bachelor of Cyberspace Security Dept. of Cyber Science and Engineering in Cybersecurity Zhuoyue
- GPA: 3.89/4.00 (6/173)
- Awards:** National Student Scholarship during 2018-2019 (Top 2% of 173 students)
- University's Scholarship First-class Reward during 2018-2019(Top 2% of 173 students)
- University's Scholarship Third-class Reward during 2019-2020 (Top 10% of 173 students)
- The provincial third prize of the National University Student Mathematical Contest in Modeling
- The provincial third prize of the National University Student Mathematical Contest

Research Experiences

- 09/2019 - Present Prof. [Chenghuang's](https://chenghuang.org/) group(<https://chenghuang.org/>), CSE, SCU, China
- Project: **A domestic system terminal situation awareness platform based on machine learning**
- Learned the use of flask, osquery, and the abnormal detection method based on machine learning
 - Learned network programming, system programming
 - Developed a intrusion detection system based on anomaly detection.
- 04/2020 – Present Prof. [Chenghuang's](https://chenghuang.org/) group(<https://chenghuang.org/>), CSE, SCU, China
- Project: **JavaScript Browser-side Cryptomining Detectionusing Static Methods**
- Learned abstract syntax tree, malicious code detection.
 - Learned basic steps for machine learning and how to use it for malicious code detection.
 - Learned the processes of composing a paper, the skills of reading, comprehending and summarizing a paper.
 - A paper is submitted to IFIP-SEC 2021.
- 11/2020 – Present Prof. [Beibei Li's](https://li-beibei.github.io/) group(<https://li-beibei.github.io/>), CSE, SCU, China
- Project: **Research about the byzantine-tolerant mechanism**
- Learned the structure of Federated Learning, how to construct a FL architecture, the problems and challenges remaining in Federated Learning.
 - Learned the concept of byzantine attacks in FL , different types of byzantine attacks in FL and current byzantine defense mechanism proposed by former researchers. I'm trying to construct a byzantine-tolerant Federated Learning architecture. I had worked out with the basic idea and was currently working on the codes and paper.
 - A paper is expected to be finished within two months.

Publications

1. “JavaScript Browser-side Cryptomining Detectionusing Static Methods” P. Wang.(Paper submitted to IFIP-SEC 2021 - EI index)

Research Experiences

- *AI security*
- *Malicious code detection*
- *Federated Learning*

Language Skills

01/2021 IELTS **R:** 8.5 **L:** 8.5 **S:** 6.5 **W:** 5.5 **Total:** 7.5

Technical Skills

- Preferred programming language:C/Python/JavaScript/HTML
- Familiar programming framework:Flask/Keras/scikit-learn/numpy/matplotlib/pandas