

# LIMIN YANG

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## EDUCATION

Virginia Tech, Ph.D. in Computer Science, Advisor: Gang Wang	Aug.2018 – May 2023
The Pennsylvania State University, Visiting Student, Advisor: Xinyu Xing and Gang Wang	Sept.2017 – Feb.2018
East China Normal University, Master Study in Computer Science, GPA: 88.28	Sept.2015 – June 2018
East China Normal University, BEng in Computer Science, GPA: 3.38	Sept.2011 – June 2015

## EXPERIENCE

Virginia Tech, Graduate Teaching Assistant, Blacksburg, VA	Aug.2018 – Present
<ul style="list-style-type: none"><li>TA for Data Structures and Algorithms (CS 3114)</li></ul>	
XuebaJun, Search & Rank Intern, Shanghai, China	Sept.2016 – Oct.2016
<ul style="list-style-type: none"><li>Located reasons of response bottleneck. Read the source code related to searching of XuebaJun app (one of the top 3 mobile apps in its area). Also accomplished a comprehensive code report.</li></ul>	
Peking University, Exploit Intern, Shanghai, China	July 2015 – Aug.2015
<ul style="list-style-type: none"><li>Supervised by Ph.D Candidate Yu Ding and learn binary vulnerability discovery/exploit (Windows), Android security (APK unpacking and repackaging), Web security (XSS).</li></ul>	
UnionPay Smart, Quantitative Analyst Assistant Intern, Shanghai, China	Mar.2015 – June 2015
<ul style="list-style-type: none"><li>Using Hadoop cluster to fetch luxury industry data from the transaction records of 2.7 billion credit cards supported by China UnionPay, written with Python and Shell script.</li></ul>	

## PUBLICATIONS

- [USENIX Security'18] Dongliang Mu, Alejandro Cuevas, **Limin Yang**, Hang Hu, Xinyu Xing, Bing Mao, Gang Wang. "Understanding the Reproducibility of Crowd-reported Security Vulnerabilities." In Proceedings of *The 27th USENIX Security Symposium (USENIX Security)*, Baltimore MD, August 2018. (Acceptance Rate: 100/524=19.1%).
- [Globecom'17] **Limin Yang**, Xiangxue Li, Yu Yu. "VulDigger: A Just-in-time and Cost-Aware Tool for Digging Vulnerability-Contributing Changes." In Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, Singapore, December 2017.
- [PPNA'17] Minhui Xue, **Limin Yang**, Keith W. Ross, and Haifeng Qian. "Charactering user behavior in location-based find-and-flirt services: anonymity and demographics." In *Peer-to-Peer Networking and Applications (PPNA)*, 2017.

## PROJECTS

Alexa Cloud Spoofing	Aug.2018 – Oct.2018
<ul style="list-style-type: none"><li>Developed an Alexa skill with Python for finding authentication issues and potential SQL injection vulnerabilities.</li></ul>	
Vulnerabilities Reproduction	Nov.2017 – Jan.2018
<ul style="list-style-type: none"><li>Collected bug reports and proof of concepts from websites like exploit-db and summarize missing information.</li><li>Measurement analysis on how crowdsourcing could ease the effort for reproducing a security bug.</li></ul>	
Vulnerability Contributing Commits (VCCs) Prediction	Dec.2016 – Mar.2017
<ul style="list-style-type: none"><li>A vulnerability prediction model built on Firefox project on code commits level (Precision: 92%, Recall: 14%).</li><li>Effort-aware model: capture 31% VCCs with 20% inspection effort (measured by lines of code).</li></ul>	
Hash algorithm cracking with dictionary and GPU attacking	Mar.2014 – Feb.2015
<ul style="list-style-type: none"><li>For MD5 encrypted password cracking, 50% faster than Cryptohaze Multiforcer. Written in C and CUDA.</li></ul>	

## AWARDS

- ECNU Graduate Student Overseas Research Scholarship 2017
- ECNU Top-notch Innovative Personnel Training Plan (4/91) 2013 – 2015

## SKILLS

**Language:** Python, C++, C, SQL. **Basics:** Git, Linux, Photoshop,  $\text{\LaTeX}$ .

**Frameworks and Platforms:** Scikit-learn, Ruby on Rails, wxPython, Hadoop, Windows SDK.