

LIMIN YANG

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EDUCATION

University of Illinois at Urbana-Champaign, Ph.D. in Computer Science, Advisor: Gang Wang	Aug.2019 – May 2024
Virginia Tech, Ph.D. in Computer Science, Advisor: Gang Wang	Aug.2018 – Aug.2019
East China Normal University, Masters Study in Computer Science	Sep.2015 – Jun.2018
East China Normal University, BEng in Computer Science	Sep.2011 – Jun.2015

INTERNSHIPS

The Pennsylvania State University, Research Intern, Pennsylvania, US	Sep.2016 – Oct.2016
<ul style="list-style-type: none">Collect bug reports from websites like exploit-db and summarize missing information to reproduce a bug.Measurement analysis on how crowdsourcing could ease the effort by manually reproducing the bugs.	
XuebaJun, Search & Rank Intern, Shanghai, China	Sep.2016 – Oct.2016
<ul style="list-style-type: none">Locate reasons for response bottleneck by reading the source code related to searching of XuebaJun app.Finish a comprehensive code report (10,000+ SLOC).	
Peking University, Exploit Intern, Beijing, China	Jul.2015 – Aug.2015
<ul style="list-style-type: none">Focus on practical training like binary vulnerability discovery/exploit (Windows).Extract fingerprints for industrial control systems like Siemens S7-1200 with Nmap.	

PROJECTS

VirusTotal Phishing URLs Scanning, Research Assistant, Virginia Tech	Jan.2019 – May 2019
<ul style="list-style-type: none">Control phishing websites to understand the quality and reliability of security scanners and VirusTotal.Set up multiple PayPal and IRS phishing sites and submit them to VirusTotal and its 68 vendors periodically.Observe the incoming traffic of our phishing sites to verify the reliability of VirusTotal.	
Alexa Cloud Spoofing, Research Assistant, Virginia Tech	Aug.2018 – May 2019
<ul style="list-style-type: none">Understand the authentication mechanism in smart home assistant systems (Alexa and Google Home).Develop an Alexa skill and a Google Home action for finding authentication issues.Verify that replay attack and SQL injection attack are feasible with proof-of-concept experiments.	
Vulnerability Contributing Commits (VCCs) Prediction, Research Assistant, ECNU	Nov.2016 – Mar.2017
<ul style="list-style-type: none">Predict whether a code commit would introduce potential security vulnerabilities.Build a vulnerability prediction model for the Firefox project on code commits level (Precision: 92%, Recall: 14%).Build another effort-aware model to capture 31% VCCs with 20% inspection effort (measured by lines of code).	

SELECTED PUBLICATIONS

- [Submitted, IMC'19] Peng Peng, **Limin Yang**, Linhai Song, Gang Wang. "Opening the Blackbox of VirusTotal: Analyzing Online Phishing Scan Engines." 2019.
- [Submitted, IMC'19] Hang Hu, **Limin Yang**, Shihan Lin, Gang Wang. "Peeking Over the Edge: Spoofing the Cloud Service of Smart Home Assistant Systems." 2019.
- [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." 2018.
- [Globecom'17] **Limin Yang**, Xiangxue Li, Yu Yu. "VulDigger: A Just-in-time and Cost-Aware Tool for Digging Vulnerability-Contributing Changes." 2017.

AWARDS

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| 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, \LaTeX .
Data Science: Keras, Scikit-learn, Numpy, Scipy. **Database:** PostgreSQL.
Frameworks and Platforms: Ruby on Rails, wxPython, Hadoop, Windows SDK.