

# 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.2017 – Feb.2018 |
| <ul style="list-style-type: none"><li>Collect bug reports from websites like exploit-db and summarize missing information to reproduce a bug.</li><li>Measurement analysis on how crowdsourcing could ease the effort by manually reproducing the bugs.</li></ul> |                     |
| XuebaJun, Search & Rank Intern, Shanghai, China   | Sep.2016 – Oct.2016 |
| <ul style="list-style-type: none"><li>Locate reasons for response bottleneck by reading the source code related to searching of XuebaJun app.</li><li>Finish a comprehensive code report (10,000+ SLOC).</li></ul>  |                     |
| Peking University, Exploit Intern, Beijing, China   | Jul.2015 – Aug.2015 |
| <ul style="list-style-type: none"><li>Focus on practical training like binary vulnerability discovery/exploit (Windows).</li><li>Extract fingerprints for industrial control systems like Siemens S7-1200 with Nmap.</li></ul>                                    |                     |

## PROJECTS

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

## PUBLICATIONS

- [IMC'19] Peng Peng, **Limin Yang**, Linhai Song, Gang Wang. "Opening the Blackbox of VirusTotal: Analyzing Online Phishing Scan Engines." 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.
- [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.

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