

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">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).	
UnionPay Smart, Quantitative Analyst Assistant Intern, Shanghai, China	Mar.2015 – Jun.2015
<ul style="list-style-type: none">Fetch and analyze luxury industry data with Hadoop and Hive. The data was related to the transaction records of 2.7 billion credit cards provided by UnionPay.	

PROJECTS

Unsupervised Machine Learning Explanation, Research Assistant, UIUC	Jun. 2019 – Present
<ul style="list-style-type: none">Make it clear on the two different definitions of machine learning model explanation.Build a unified explanation framework for explaining both clustering and anomaly detection models.Fidelity tests show our method can achieve the best or parallel performance compared to state-of-the-art methods.	
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.	
Smart Home Assistants 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 (Amazon Alexa and Google Home).Develop an Amazon 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.	

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: Hadoop, Flask, Ruby on Rails, wxPython, Windows SDK.