

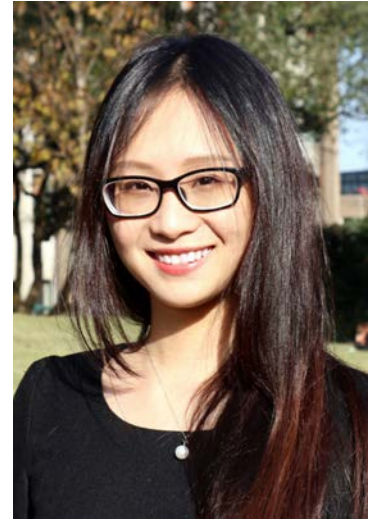
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Research Areas

Cyber Security; Mobile Sensing; AI Security

Education

Zhejiang University

Hangzhou, China

Ph.D. Student, Control Theory and Engineering, *Sept. 2016 – present*

Advisor: Prof. Wenyuan Xu

Expected Graduation Date: *Jun. 2021*

Zhejiang University

Hangzhou, China

B.E., Electrical and Electronics Engineering, *Jul. 2016*

Advisor: Prof. Wenyuan Xu

Thesis: Anti-photograph jammers for cameras and web cams

Conference Publication

- [1] **Yushi Cheng**, Xiaoyu Ji, Juchuan Zhang, Wenyuan Xu, Yi-Chao Chen. DeMiCPU: Device Fingerprinting with Magnetic Signals Radiated by CPU. ACM Conference on Computer and Communications Security (CCS), 2019. (To appear, CCF A)
- [2] **Yushi Cheng**, Xiaoyu Ji, Wenyuan Xu, Hao Pan, Zhuangdi Zhu, Chuang-Wen You, Yi-Chao Chen, Lili Qiu. MagAttack: Guessing Application Launching and Operation via Smartphone. ACM Asia Conference on Computer and Communications Security (AsiaCCS), 2019. (To appear, CCF C)
- [3] **Yushi Cheng**, Xiaoyu Ji, Tianyang Lu, Wenyuan Xu. DeWiCam: Detecting Hidden Wireless Cameras via Smartphones. ACM Asia Conference on Computer and Communications Security (AsiaCCS), 2018. (**Best Paper Award, CCF C**)

- [4] **Yushi Cheng**, Xiaoyu Ji, Xinyan Zhou, Wenyuan Xu. HomeSpy: Inferring User Presence via Encrypted Traffic of Home Surveillance Camera. The 1st International Workshop on Wireless Sensing Technology (IEEE WST), 2017. (**Best Paper Runner-up, CCF C**)
- [5] Xiaopeng Li, Sharaf Malebary, Xianshan Qu, Xiaoyu Ji, **Yushi Cheng**, Wenyuan Xu. iCare: Automatic and User-friendly Child Identification on Smartphones. The 19th International Workshop on Mobile Computing Systems & Applications (ACM HotMobile), 2018.
- [6] Xinyan Zhou, **Yushi Cheng**, Xiaoyu Ji, Wenyuan Xu. SADO: State-Associated and Delay-Oriented Data Collection for Intertidal WSNs. The 9th International Conference on Wireless Communications and Signal Processing (WCSP), 2017.

Journal Publication

- [1] **Yushi Cheng**, Xiaoyu Ji, Tianyang Lu, Wenyuan Xu. On Detecting Hidden Wireless Cameras: A Traffic Pattern-based Approach. IEEE Transactions on Mobile Computing (TMC), 2019. (CCF A)
- [2] Xiaoyu Ji (Faculty author), **Yushi Cheng**, Wenyuan Xu, Xinyan Zhou. User Presence Inference via Encrypted Traffic of Wireless Camera in Smart Homes. Security and Communication Networks (SCN), 2018. (CCF C)
- [3] Xinyan Zhou, Xiaoyu Ji, Bin Wang, **Yushi Cheng**, Zhuoran Ma, Francis Choi, Brian Helmuth, Wenyuan Xu. Pido: predictive delay optimization for intertidal wireless sensor networks. Sensors, 18(5), 1464, 2018.
- [4] Xin Lu, **Yushi Cheng**, Tianchen Zhang, Wenyuan Xu. A lightweight authentication technique for distributed control of power distribution networks. Journal of Zhejiang University (Engineering Science), 2017.

Honor

- *ACM AsiaCCS Travel Grant*, **ACM Travel Grant Committee**, 2018
- *Inverter Scholarship*, **Inverter**, 2017
- *ACM CCS Travel Grant*, **ACM Travel Grant Committee**, 2017
- *Outstanding Graduate Student Award*, **Ministry of Education of Zhejiang**, 2016
- *Outstanding Graduate Student Award*, **Zhejiang University**, 2016
- *National Scholarship*, **Ministry of Education of China**, 2014&2015
- *1st Prize Scholarship on Academic Performance*, **Zhejiang University**, 2014&2015
- *Outstanding Student Awards*, **Zhejiang University**, 2013, 2014&2015
- *Outstanding Student Leader Awards*, **Zhejiang University**, 2013, 2014&2015
- *Meritorious Winner on Mathematical Contest in Modeling (MCM)*, **COMAP**, 2015
- *1st Prize Scholarship on Research and Innovation*, **Zhejiang University**, 2015
- *Texas Instrument Scholarship*, **Texas Instrument**, 2014
- *2st Prize Scholarship on Research and Innovation*, **Zhejiang University**, 2013

Internship

- *Baidu Security Lab, Baidu, 2017.4*
- *Cyberspace Security Lab, Alibaba-Zhejiang University Joint Institute of Frontier Technologies, 2017.4 – present*

Social Work

- *Senior Member, Student Union of Recreation and Sports, Zhejiang University*