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Education

Ph.D. in Computer Science

The University of Oklahoma, Norman, OK, USA

Aug. 2019 - May. 2024

Advisor: Dr. Song Fang

M.E. in Electrical and Computer Engineering

Xidian University, Xi'an, Shaanxi, China

Sept. 2016 - Jul. 2019

B.E. in Electrical and Computer Engineering

Yanshan University, Qinhuangdao, Hebei, China

Sept. 2012 - Jul. 2016

Research Interests

- Mobile and IoT Security
- Mobile Sensing and Computing
- Smart Healthcare

Publications

Published a total of 8 research papers in peer-reviewed conferences and journals, including top-tier conferences such as **ACM CCS 2023**, **ACM CCS 2022**, **MobiSys 2021**, and tier-2 conference **RAID 2023**.

- 1 **Qiuye He**, Edwin Yang, Song Fang, “*A Survey on Human Profile Information Inference via Wireless Signals*”, in IEEE Communications Surveys and Tutorials (IEEE COMST), (pp. 1-34), March 2024.
- 2 Yan He*, **Qiuye He***, Song Fang, Yao Liu “*When Free Tier Becomes Free to Enter: A Non-Intrusive Way to Identify Security Cameras with no Cloud Subscription*”, in Proceedings of the 30th ACM Conference on Computer and Communications Security (ACM CCS 2023), Copenhagen, Denmark, November 2023.
* The first two authors contributed equally to this paper. (Acceptance Rate: 19.9% = 158/795)
- 3 Yan He, **Qiuye He**, Song Fang, Yao Liu, “*Precise Wireless Camera Localization Leveraging Traffic-aided Spatial Analysis*”, in IEEE Transactions on Mobile Computing (IEEE TMC), (pp. 1-13), November 2023.
- 4 **Qiuye He**, Song Fang “*Phantom-CSI Attacks against Wireless Liveness Detection*”, in Proceedings of the 26th International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2023), Hong Kong, Hong Kong, October 2023. (Acceptance Rate: 23.5% = 50/213)
- 5 **Qiuye He**, Edwin Yang, Song Fang, Shangqing Zhao “*HoneyBreath: An Ambush Tactic Against Wireless Breath Monitoring*”, in Proceedings of the 19th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (EAI MobiQuitous 2022), (pp. 203-226), Pittsburgh, United States, November 2022. [**Best Paper Award**]
- 6 Edwin Yang, **Qiuye He**, Song Fang, “*WINK: Wireless Inference of Numerical Keystrokes via Zero-Training Spatiotemporal Analysis*”, in Proceedings of the 29th ACM Conference on Computer and Communications Security (ACM CCS 2022), (pp. 3033-3047), Los Angeles, United States, November 2022. (Acceptance Rate: 17.9% = 58/324) [**Artifacts Badge**]

- 7 **Qiuye He**, Song Fang, Tao Wang, Yao Liu, Shangqing Zhao, Zhuo Lu, “*Proactive Anti-Eavesdropping With Trap Deployment in Wireless Networks*”, in IEEE Transactions on Dependable and Secure Computing (IEEE TDSC), (pp. 637-649), January 2022.
- 8 Yan He, **Qiuye He**, Song Fang, Yao Liu, “*MotionCompass: Pinpointing Wireless Camera Via Motion-activated Traffic*”, in Proceedings of the 19th Annual International Conference on Mobile Systems, Applications, and Services (ACM MobiSys 2021), (pp. 215-227), Virtual, WI, USA, June 2021. (Acceptance Rate: 21.7% = 36/166) [**Artifacts Badge**]

Manuscripts Under Review

- 1 **Qiuye He**, Edwin Yang, Song Fang, Shangqing Zhao, “*Revisiting Wireless Breath and Crowd Inference Attacks with Defensive Deception*”, in IEEE/ACM Transactions on Networking (IEEE/ACM ToN).

Patent

- 1 Song Fang, Yan He, **Qiuye He**, “*Method and Apparatus for Determining Locations of Wireless Cameras*”, US Patent (provisional application), serial No.: 63/356,211. (Non-provisional application #: 18/341,567, filed in 2023)

Selected Honors & Awards

- **CANSec Student Travel Grant**, NSF, 2023.
- **Best Paper Award**, EAI MobiQuitous, 2022.
- **CS Alumni Graduate Fellowship**, The University of Oklahoma, 2022.
- **CANSec Student Travel Grant**, NSF, 2022.
- **ACM CCS Student Travel Grant**, NSF, 2022.
- **GCoE PhD Recruitment Excellence Fellowship**, The University of Oklahoma, 2019.
- **Academic Excellent Scholarships (Top 10%)**, Xidian University, 2018.
- **Academic Excellent Scholarships (Top 5%)**, Xidian University, 2016.
- **Recommended to the Graduate School with Entrance Exam Waiver (Top 10%)**, Yanshan University, 2016.
- **Academic Excellent Scholarships (Top 10%)**, Yanshan University, 2014.

Talks

- 1 *Phantom-CSI Attacks against Wireless Liveness Detection*, in the 16th The Central Area Networking and Security Workshop (**CANSec**), University of Kansas, Lawrence, KS, October, 2023.
- 2 *HoneyBreath: An Ambush Tactic Against Wireless Breath Monitoring*, in 19th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (**EAI MobiQuitous**), Virtual, November, 2022.
- 3 *HoneyBreath: An Ambush Tactic Against Wireless Breath Monitoring*, in the 15th The Central Area Networking and Security Workshop (**CANSec**), Wichita State University, Wichita, KS, October, 2022.

Teaching

- **Teaching Assistant**, CS-4/5173 Computer Security, OU, Fall 2023.
- **Teaching Assistant**, CS-5593 Data Mining, OU, Fall 2021.
- **Teaching Assistant**, CS/DSA-4413 Algorithm Analysis, OU, Fall 2019/2020, Spring 2021/2022.

Media Coverage

Nov. 2022 Study Aims to Improve Privacy From Digitally Enabled Hidden Devices. OU News.

Link: <https://ou.edu/research-norman/news-events/2022/university-of-oklahoma-study-aims-to-improve-privacy-from-digitally-enabled-hidden-devices>

Nov. 2022 OU studying privacy of listening smart devices. FOX News.

Link: <https://www.fox23.com/news/ou-studying-privacy-listening-smart-devices/EIKZ4W5CSRBI3IRUEXGZVXDHMI/>

Nov. 2022 Researcher at OU developing app to detect hidden cameras. KOCO 5 News.

Link: <https://www.koco.com/article/oklahoma-research-app-detect-hidden-cameras/41959062>

Professional Service

Reviewer for Conferences

- IEEE International Conference on Computer Communications (INFOCOM) 2023
- IEEE Conference on Communications and Network Security (CNS) 2022
- IEEE International Conference on Computer Communications and Networks (ICCCN) 2023
- IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS) 2022

Reviewer for Journals

- IEEE Transactions on Dependable and Secure Computing (TDSC)
- IEEE Transactions on Mobile Computing (TMC)
- IEEE Transactions on Information Forensics & Security (TIFS)
- IEEE/ACM Transactions on Networking (ToN)
- IEEE Transactions on Wireless Communications (TWC)
- Information Systems Journal (ISJ)

Volunteering

- Volunteer, ACM CCS, 2022