SHU WANG

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BIOGRAPHY

I am a third-year I.T. Ph.D. student in the Volgenau School of Engineering at George Mason University, under the supervision of Dr. Kun Sun. Before that, I obtained my Bachelor of Engineering in Communication Engineering in 2014 and Master of Engineering in Signal and Information Processing in 2017 from Nanjing University of Posts and Telecommunications. I also works as a graduate research assistant at Center for Secure Information Systems (CSIS). My research interests include Information Security, Adversarial Learning, Machine Learning, Pattern Recognition, Data Mining, Deep Learning, Signal Processing, Image Understanding, and Embedded Systems.

EDUCATION

Doctor of Philosophy in Information Technology August 2018 - Present
with Concentration in Information Science and Technology.
George Mason University, GPA: 4.0/4.0.

Master of Science in Signal and Information Processing September 2014 - May 2017
with Concentration in Image Processing and Multimedia Communications.
Nanjing University of Posts and Telecommunications, GPA: 90.2/100.

Bachelor of Science in Electrical Engineering September 2010 - June 2014
with Specialization in Communication Engineering.
Nanjing University of Posts and Telecommunications, GPA: 90.9/100.

ACADEMIC POSITIONS

Graduate Research Assistant August 2018 - Present
Center for Secure Information Systems (CSIS)
George Mason University, Fairfax, VA, USA.

Research Assistant July 2015 - May 2017
Key Lab on Image Processing and Image Communications
Nanjing University of Posts and Telecommunications, Nanjing, China.

Teaching Assistant September 2014 - June 2015
Graduate Level Course: Digital Image Processing
Nanjing University of Posts and Telecommunications, Nanjing, China.

PUBLICATIONS

Xinda Wang, **Shu Wang**, Pengbin Feng, Kun Sun, and Sushil Jajodia, "PatchDB: A Large-Scale Security Patch Dataset," *2021 51st IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2021)*, Taipei, June 21-24, 2021.

Shu Wang, Jiahao Cao, Xu He, Kun Sun and Qi Li, "When the Differences in Frequency Domain are Compensated: Understanding and Defeating Modulated Replay Attacks on Automatic Speech Recognition," *2020 27th ACM Conference on Computer and Communications Security (CCS 2020)*, Orlando, USA, November 9-13, 2020.

Shu Wang, Jiahao Cao, Kun Sun and Qi Li, "SIEVE: Secure In-Vehicle Automatic Speech Recognition Systems," *2020 23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2020)*, Donostia/San Sebastian, Spain, October 14-16, 2020.

Xinda Wang, **Shu Wang**, Kun Sun, Archer Batcheller and Sushil Jajodia, "A Machine Learning Approach to Classify Security Patches into Vulnerability Types," *2020 8th IEEE Conference on Communications and Network Security (CNS 2020)*, Avignon, France, 2020, pp. 1-9. DOI: 10.1109/CNS48642.2020.9162237.

Shu Wang, Feng Liu, Zongliang Gan and Ziguan Cui, "Vehicle type classification via adaptive feature clustering for traffic surveillance video," *2016 8th International Conference on Wireless Communications & Signal Processing (WCSP 2016)*, Yangzhou, 2016, pp. 1-5. DOI: 10.1109/WCSP.2016.7752672.

SERVICE

Web chair: *CNS 2021.*

Conference sub-reviewer: *CCS 2021/2019, INFOCOM 2021/2020/2019, ICC 2021/2019, SECRYPT 2021, NDSS 2020, ACSAC 2020, DNS 2020, ICICS 2020/2019, CNS 2020/2019, SciSec 2019, ICDCS 2019* .

Journal sub-reviewer: *GPAA 2019.*

Artifacts student reviewer: *ACSAC 2020.*

AWARDS AND SCHOLARSHIPS

ACM CCS 2020 Student Conference Grant (2020)
Machine Learning Certificate by Stanford University on Coursera (2016)
Honorable Mention, National Mathematical Contest in Modeling (2016)
Honor Graduates of Nanjing University of Posts and Telecommunications (2014)
National Scholarship for Outstanding Undergraduates (2013)
Merit-based Top Scholarship (2011-2016)