## Qian Han

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<b>Dartmouth College,</b> Department of Computer Science, Hanover, NH Ph.D. student in <b>Computer Science</b>	2016 – Jun. 2021( <i>expected</i> )
<b>Telekom Innovation Labs</b> , Be'er Sheva, Israel Research Intern	Jun. 2019 – Sep. 2019
<b>Tsinghua University,</b> Department of Electronic Engineering, Beijing, China Bachelor of Engineering in Electronic Engineering	Aug. 2012 – July. 2016
Generating Fake Documents using Probabilistic Logic Graphs Q. Han, C. Molinaro, A. Picariello, G. Sperlì, V.S. Subrahmanian, Y. Xiong Submitted to IEEE Transactions on Despressions of Computing	Jun. 2019
Android Rooting Malware Detection via Robust Irreversible Feature Transformations Q. Han, V.S. Subrahmanian and Y. Xiong	May. 2019
Disclose or Exploit? A Game Theoretic Approach to Strategic Decision Making in Cyber H. Chen, Q. Han, S. Jajodia, R. Lindelauf, V.S. Subrahmanian, Y. Xiong (authors listed in alphabetic or	
<b>DBank: Predictive Behavioral Analysis of Recent Android Banking Trojans</b> C. Bai, Q. Han, G. Mezzour, F. Pierazzi, and V.S. Subrahmanian (authors listed in alphabetic order)	Apr. 2019
Frictio: Passive Kinesthetic Force Feedback for Smart Ring Output T. Han, Q. Han, M. Annett, F. Anderson, D. Huang, and X. Yang	Jul. 2017
Simultaneous Multi-Channel Reconstruction for TDS-OFDM Systems  Q. Han, W. Shen, and B. Wang  In Proceedings of the 2015 IEEE 82nd Vehicular Technology Conference (VTC2015-Fall)	Sept. 2015
Android Banking Malware Prediction and Analysis Using Machine Learning supervised by Prof. V.S. Subrahmanian, Dartmouth College  Proposed novel Suspicion Score and Suspicion Rank features based on PageRank; enhanced around 300% in the face of adversary attack; achieved classification results with AUC over	the system's robustness
ECC: Ensemble Clustering and Classification Algorithm for Unbalanced Dataset supervised by Prof. V.S. Subrahmanian, Dartmouth College  Designed ECC algorithm synthesized training data to reduce the imbalance ratio on datasets	; achieved around 10% and
Passive Kinesthetic Force Feedback for Smart Ring Output supervised by Prof. Xing-Dong Yang, Dartmouth College	lly.
Clustering & Classification Methods for Predicting Malicious Android Apps Conference on Android Security, Local Research Day, Google HQ, Mountain View, CA O. Han and V.S. Subrahmanian	Oct. 2018
Behavioral Analysis and Automated Detection of Android Banking Trojans Android Security Team, Google HQ, Mountain View, CA Q. Han and V.S. Subrahmanian	Jul. 2018
Dartmouth College Graduate Alumni Research Award, 2019 Dartmouth College Neukom Prize for Outstanding Graduate Research, 2019 Tsinghua University Distinguished Undergraduates Thesis Award, 2016	
	Ph.D. student in Computer Science Telekom Innovation Labs, Be'er Sheva, Israel Research Intern Tsinghua University, Department of Electronic Engineering, Beijing, China Bachelor of Engineering in Electronic Engineering Generating Fake Documents using Probabilistic Logic Graphs Q. Han, C. Molinaro, A. Picariello, G. Speril, V.S. Subrahmanian, Y. Xiong Submitted to IEEE Transactions on Dependable & Secure Computing Android Rooting Malware Detection via Robust Irreversible Feature Transformations Q. Han, V.S. Subrahmanian and Y. Xiong Submitted to IEEE Transactions on Information Forensics and Security Disclose or Exploit? A Game Theoretic Approach to Strategic Decision Making in Cyber H. Chen, Q. Han, S. Jajodia, R. Lindelauf, V.S. Subrahmanian, Y. Xiong (authors listed in alphabetic or IEEE System Journals, 2019. To appear DBank: Predictive Behavioral Analysis of Recent Android Banking Trojans C. Bai, Q. Han, G. Mezzour, F. Pierazzi, and V.S. Subrahmanian (authors listed in alphabetic order) IEEE Transactions on Dependable & Secure Computing, 2019 Frictice Transactions on Dependable & Secure Computing, 2019 Frictice Transactions on Dependable & Secure Computing, 2019 Frictice Transactions on Dependable & Secure Computing, 2019 In Proceedings of the ACM Symposium on User Interface Software and Technology (UIST'17), Denver Simultaneous Multi-Channel Reconstruction for TDS-OFDM Systems Q. Han, W. Shen, and B. Wang In Proceedings of the 2015 IEEE 82nd Vehicular Technology Conference (VTC2015-Fall)  Generative Adversarial Malware Model for Android supervised by Yuval Elovici and Rami Puzis, Telekom Innovation Labs  • Designed Android centric attack on well-known Android malware classifiers using static fea mechanism to harden the state-of-the-art classifiers including deep neural network to reduce Android Banking Malware Prediction and Analysis Using Machine Learning supervised by Prof. V.S. Subrahmanian, Dartmouth College  • Proposed novel Suspicion Score and Suspicion Rank features based on PageRank; enhanced aroun

Python, MATLAB, Java, Linux, LATEX, Android, Git, Pandas, Scikit-learn, Networkx, PyTorch, Keras

**Tools**