Fnu Suya

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S suyeecav ● Updated on May 8, 2021

Education

o Ph.D. in Computer Science, University of Virginia	Aug 2017 – May 2022
o Ph.D. in Computer Science, Arizona State University	Aug 2015 – May 2017
o B.Eng. in Electrical Engineering, China Agricultural University	Aug 2010 – May 2014

Research Interests

Machine learning security and deep learning, with particular interests in evaluating model robustness under test time attacks (i.e., adversarial examples) and training time attacks (i.e., data poisoning and backdoor attacks).

Research Experience

Qualcomm Technologies, Inc., Aleksei TriastcynPoisoning Attacks on Federated Learning	May 2021 – Aug 2021
 Amazon Web Services, Inc., MohamadAli Torkamani Robust Learning on Extremely Large Graphs 	Jan 2021 – Apr 2021
 University of Virginia, David Evans, Yuan Tian Machine Learning Security in Training and Inference Time 	Aug 2017 – Present
 Bosch Center for Artificial Intelligence, Anit Kumar Sahu Query Efficient Black-box Attacks 	June 2020 - Aug 2020
 Arizona State University, Guoliang Xue, Paolo Papotti Incentive Mechanism Design, Machine learning Privacy 	Aug 2015 – Jul 2017
 Tsinghua University, Bo Bai Energy Efficient Wireless Communication	Aug 2014 – Feb 2015

Teaching Experience

o Learning Theory (UVA CS 6501-005), TA	S2019
o Cryptography (UVA CS 6501-009), TA	S2019
o Game Theory (ASU CSE 556), TA	F2016
\circ Introduction to C++ Programming (ASU CSE 100), TA	F2015 - S2016
o Introduction to Programming Languages (ASU CSE 240), TA	F2015 - S2016

Honors & Awards

o CS Graduate Research Award, University of Virginia	2018
o CS Department Fellowship, University of Virginia	2017
 NSF Travel Grant, GlobalSIP 	2016
 CIDSE Doctoral Fellowship, Arizona State University 	2015
 Outstanding Student Scholarship, China Agricultural University 	2011 – 2013

Service

Reviewer/Subreviewer IJCAI 2021, ICML 2020-2021, NeurIPS 2021, IEEE S&P 2018-

> 2021, Usenix Security 2018-2021, NDSS 2018-2021, CCS 2018-2021, Sensys 2021, ASIACCS 2019, Euro S&P 2019, AAAI

2017-2019, SIGMOD 2017, DASFAA 2017, MobiHoc 2016

IJCAI 2021 Program Committee

Skills

Programing Python, Matlab, C, C++, LATEX

TensorFlow, PyTorch, MXNet, NumPy, SciPy, Scikit-learn Frameworks

Systems Linux, OSX

Languages Mongolian (native), Chinese, English

Publications

Google Scholar ID: OmLIG8EAAAAJ

2021a F. Suya, S. Mahloujifar, A. Suri, D. Evans, Y. Tian. "Model-Targeted Poisoning Attacks with Provable Convergence". In: The Thirty-eighth International Conference on Machine Learning (ICML 2021). URL: https://arxiv.org/abs/2006.16469.

2021b Y. Tian, F. Suya, F. Xu, D. Evans. "Stealthy Backdoors as Compression Artifacts". In: arXiv preprint. URL: https://arxiv.org/abs/2104.15129.

2020a F. Suya, J. Chi, D. Evans, Y. Tian. "Hybrid batch attacks: Finding black-box adversarial examples with limited queries". In: 29th USENIX Security Symposium (USENIX Security 2020). URL: https://arxiv.org/abs/1908.07000.

2020b J. Wang, M. Luo, F. Suya, J. Li, Z. Yang, Q. Zheng. "Scalable Attack on Graph Data by Injecting Vicious Nodes". In: The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD 2020). URL: https://arxiv.org/abs/2004.13825.

2019 Y. Chen. "Demystifying Hidden Privacy Settings in Mobile Apps". In: 2019 IEEE Symposium on Security and Privacy (S&P 2019). URL: https://ieeexplore.ieee.org/abstract/document/ 8835388.

2018 F. Suya, D. Evans, Y. Tian. "Poster: Adversaries Don't Care About Averages: Batch Attacks on Black-Box Classifiers". In: 2018 IEEE Symposium on Security and Privacy (S&P 2018). URL: https://www.ieee-security.org/TC/SP2018/poster-abstracts/oakland2018-paper37poster-abstract.pdf.

2017 F. Suya, Y. Tian, D. Evans, P. Papotti. "Query-limited black-box attacks to classifiers". In: NIPS Workshop on Machine Learning and Computer Security (MLSec). URL: https://arxiv.org/ abs/1712.08713.

2016 F. Suya, Y. Shi, B. Bai, W. Chen, J. Zhang, K. B. Letaief, S. Zhou. "Optimal Stochastic Power Control with Compressive CSI Acquisition for Cloud-RAN". In: IEEE Global Conference on Signal and Information Processing (GlobalSIP) 2016. URL: https://ieeexplore.ieee.org/abstract/ document/7906068.