

EDUCATION

- **Lehigh University, Algorithmic Learning, Privacy and Security (ALPS)** Bethlehem, PA
Ph.D. in Computer Science, Advisor: Prof. Ting Wang, GPA: 3.94/4.0 Aug. 2016 – Present
- **Wuhan University, Big Data and Cloud Computation Laboratory** Hubei, China
Bachelor of Engineering in Software Engineering, GPA: 3.5/4.0 Sept. 2012 – Jun. 2016

RESEARCH EXPERIENCES

- **Attack and Defense against Pre-trained Learning System** Feb. 2017 - Present
Research Assistant Lehigh University, PA, USA
 - Revealed security risks of reusing pre-trained models in building Machine Learning systems;
 - Designed and implemented attack mechanisms to trigger the misclassification of the transferred model.
- **Detection of Adversarial Samples on Deep Neural Network** Oct. 2016 - May. 2018
Research Assistant Lehigh University, PA, USA
 - Analyzed adversarial samples inference behaviors on variety models utilizing Information Theory;
 - Proposed and implemented an adversarial sample detection mechanism to improve model's robustness;
 - Implemented a DNN model compression method based on Network Trimming.
- **Three-dimensional Subway Fire Evacuation Simulation Model** May. 2015 - Sep. 2015
Undergraduate Research Assistant Wuhan University, Hubei, China
 - Simulated evacuation strategies inside subway stations based on optimized A* routing algorithm.
- **Chinese Social Media Analysis for Disease Surveillance** Oct. 2014 - Dec. 2014
Undergraduate Research Assistant Wuhan University, Hubei, China
 - Predicted the outbreak of flu based on traditional Machine Learning classification algorithms.

WORK EXPERIENCES

- **Long Sentence Prediction** May. 2018 - Aug. 2018
Algorithm Engineer(intern) Kika Tech, Inc., Beijing, China
 - Implemented long sentences prediction based on Seq2Seq model;
 - Cleaned the corpus based on parsing tree analysis.

PUBLICATION

- **Yujie Ji**, Xinyang Zhang, Shouling Ji, Xiapu Luo, Ting Wang. Model-Reuse Attacks on Deep Learning Systems. *The 25th ACM Conference on Computer and Communications Security (CCS '18)*.
- **Yujie Ji**, Ting Wang. Towards Understanding the Dynamics of Adversarial Attacks [poster]. *The 25th ACM Conference on Computer and Communications Security (CCS '18)*.
- Xinyang Zhang, **Yujie Ji**, Chanh Nguyen, Ting Wang. DeepClean: Data Cleaning via Question Asking. *The 5th IEEE International Conference on Data Science and Advanced Analytics (DSAA '18)*.
- **Yujie Ji**, Xinyang Zhang, Ting Wang. Backdoor Attacks against Learning Systems. *IEEE Conference on Communications and Network Security (CNS) 2017. Best Paper Award.*
- Xiaohui Cui, Nanhai Yang, Zhibo Wang, Cheng Hu, Weiping Zhu, Hanjie Li, **Yujie Ji**, Cheng Liu. Chinese social media analysis for disease surveillance. *Pers Ubiquit Comput (2015) 19:11251132*. (SCI, IF: 1.518).

SKILLS & TECHNIQUES

Languages: Python, Java; MySQL; MATLAB.

Technologies: Linux; PyTorch, Keras, TensorFlow, Theano, Lasagne.