

# Tao Wang

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*Research Interests: Cyber-physical System Security, Web Security, Network Security*

## Education

- 2013-pres. **Ph.D., Computer Science**, *University of South Florida*, Tampa, FL.  
Supervisor: Dr. Yao Liu
- 2012-2013 **Master student, Electrical Engineering**, *Polytechnic Institute of NYU*, Brooklyn, NY .  
transferred to University of South Florida
- 2007-2011 **B.S., Electronic Information Science and Technology**, *Jilin University*, Changchun, China.

## Experience

- 2013-pres. **Research Assistant**, *University of South Florida*, Tampa, FL.
- 2013-2017 **Teaching Assistant**, *University of South Florida*, Tampa, FL.
- 2012-2013 **Graduate Assistant**, *Polytechnic Institute of NYU*, Brooklyn, NY .

## Publication

- [1] **Tao Wang**, Tao Hou, Zhuo Lu, and Yao Liu, "When Third-Party JavaScript Meets Cache: Uncovering Insecure Practices on the Internet," *under submission*.
- [2] **Tao Wang**, Tao Hou, Yao Liu, Zhuo Lu, and Qingqi Pei, "Physical Layer One-time Pad Towards Wireless Security," *under submission*.
- [3] **Tao Wang**, Jian Weng, Jay Ligatti, and Yao Liu, "Far Proximity Identification in Wireless Systems," *under submission*.
- [4] Song Fang, **Tao Wang**, Yao Liu, Shangqing Zhao, and Zhuo Lu, "Entrapment for Wireless Eavesdroppers", *IEEE Conference on Computer Communications (INFOCOM'19)*, Paris, France, 2019.
- [5] Tao Hou, **Tao Wang**, Dakun Shen, Zhuo Lu, and Yao Liu, "Autonomous Security Mechanisms for High-Performance Computing Systems: Review and Analysis", *Autonomous Adaptive Cyber Systems*, Springer, 2019.
- [6] **Tao Wang**, Yao Liu, Tao Hou, Qingqi Pei, and Song Fang, "Signal Entanglement based Pinpoint Waveforming for Location-restricted Service Access Control," *to appear in IEEE Transactions on Dependable and Secure Computing(TDSC)*, vol. 15, no. 5, pp. 853-867, 2018.
- [7] Song Fang, Yao Liu, Wenbo Shen, Haojin Zhu, and **Tao Wang**, "Virtual Multipath Attack and Defense for Location Distinction in Wireless Networks," *in IEEE Transactions on Mobile Computing (TMC)*, vol. 16, no. 2, pp. 566-580, 2017.

- [8] Yuexin Zhang, Yang Xiang, **Tao Wang**, Wei Wu, and Jian Shen, "An over-the-air key establishment protocol using keyless cryptography," *to appear in Future Generation Computer Systems (FGCS)*, 2016.
- [9] **Tao Wang**, Yao Liu, Qingqi Pei, and Tao Hou, "Location-restricted Services Access Control Leveraging Pinpoint Waveforming," *in Proc. of 22nd ACM Conference on Computer and Communications Security (CCS'15)*, Denver, Colorado, 2015.
- [10] **Tao Wang**, Yao Liu, and Athanasios V. Vasilakos, "Survey on channel reciprocity based key establishment techniques for wireless systems," *in Wireless Networks*, page 1-12, January, 2015.
- [11] **Tao Wang**, and Yao Liu, "Secure Distance Indicator Leveraging Wireless Link Signatures," *in Proc. of IEEE Military Communications Conference (MILCOM'14)*, Baltimore, MD, 2014.
- [12] **Tao Wang**, Yao Liu, and Jay Ligatti, "Fingerprinting Far Proximity From Radio Emissions," *in Proc. of European Symposium on Research in Computer Security (ESORICS'14)*, Wroclaw, Poland, 2014.

## Awards

- Oct. 2015 **ACM CCS travel grant**, *NSF*.
- Oct. 2014 **IEEE MILCOM travel grant**, *NSF*.
- 2012-2013 **Graduate School Innovation Scholarship**, *Polytechnic Institute of NYU*, Brooklyn, NY .
- 2010-2011 **Department-level Outstanding Student**, *Jilin University*, Changchun, China.
- 2010-2011 **Second-class Scholarship of the University**, *Jilin University*, Changchun, China.
- 2007-2008 **University-level Outstanding Student**, *Jilin University*, Changchun, China.
- 2007-2008 **First-class Scholarship of the University**, *Jilin University*, Changchun, China.

## Talks

- [1] Wireless physical layer design for confidentiality and integrity.  
[February, 2016] Security seminar, CS department, USF.
- [2] Location-restricted Services Access Control Leveraging Pinpoint Waveforming.  
[October, 2015] ACM CCS'15, Denver, Colorado.
- [3] Secure Distance Indicator Leveraging Wireless Link Signatures.  
[October, 2014] IEEE MILCOM'14, Baltimore, MD.
- [4] Fingerprinting Far Proximity From Radio Emissions.  
[September, 2014] ESORICS'14, Wroclaw, Poland.

## Teaching

- [1] Operating Systems, *Teaching Assistant*, Fall 2017
- [2] Program Design for IT, *Teaching Assistant*, Spring 2017
- [3] Graph Data Processing, *Teaching Assistant*, Fall 2016
- [4] Emerging Topics in Network Security, *Teaching Assistant*, Spring 2015, Spring 2016
- [5] Microprocessor Interfacing, *Teaching Assistant*, Fall 2015

[6] Computers & Impact on Society, *Teaching Assistant*, Spring 2014

[7] Intro to Computer Programming, *Teaching Assistant*, Spring 2014

[8] Intro to Discrete Structures, *Teaching Assistant*, Fall 2013

## PROFESSIONAL SERVICES

### **Technical Program Committee:**

- IEEE ICC 2019.

### **Academic Paper Reviewer:**

- IEEE INFOCOM 2015, 2016, 2017, IEEE CNS 2017, IEEE ICC 2015, 2017, SECURECOMM 2016, IEEE IPCCC 2015, IEEE GC 2015.
- IEEE Transactions on Information Forensics and Security(TIFS), International Journal of Distributed Sensor Networks, International Journal of Security and Networks(IJSN), Journal of Network and Computer Applications(JNCA).