

# Yao Zheng

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## PARTICULARS

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### EDUCATION

<b>Ph.D.</b> in Computer Science Virginia Tech	<b>December 2016</b> Falls Church, VA, US
<b>M.S.</b> in Electrical and Computer Engineering Worcester Polytechnic Institute	<b>June 2011</b> Worcester, MA, US
<b>B.S.</b> in Microelectronics Fundan University	<b>June 2007</b> Shanghai, China

### PROFESSIONAL APPOINTMENTS

<b>Assistant Professor</b> EE Department, University of Hawaii, Honolulu, HI, US.	<b>January 2017 - present</b>
<b>Junior Researcher</b> Siemens Corporate Technology, Beijing, China.	<b>September 2007 - October 2009</b>

### RESEARCH INTERESTS

I study information privacy and security and have a side-interest in machine learning. I work on secure sharing of personal information with advanced cryptography, privacy-preserving location-based services, and privacy-preserving big data analytics. I also have a variety of ongoing research relating to wireless physical-layer security, botnet detection, network intrusion and anomaly detection, and context-aware security for mobile networks.

## PUBLICATIONS

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### JOURNAL ARTICLES

1. **Zheng, Yao**, Ming Li, Wenjing Lou, and Y. Thomas Hou (2017). "Location Based Handshake and Private Proximity Test with Location Tags". In: *IEEE Transactions on Dependable and Secure Computing* 14.4, pp. 406–419.

2. Wang, Bing, **Yao Zheng**, Wenjing Lou, and Y. Thomas Hou (2015). “DDoS Attack Protection in the Era of Cloud Computing and Software-Defined Networking”. In: *Computer Network* 81 (C), pp. 308–319.
3. **Zheng, Yao**, Matthias Schulz, Wenjing Lou, Y. Thomas Hou, and Matthias Hollick (2015). “Highly Efficient Known-Plaintext Attacks Against Orthogonal Blinding Based Physical Layer Security”. In: *IEEE Wireless Communications Letters* 4.1, pp. 34–37.
4. Li, Ming, Shucheng Yu, **Yao Zheng**, Kui Ren, and Wenjing Lou (2013). “Scalable and Secure Sharing of Personal Health Records in Cloud Computing Using Attribute-Based Encryption”. In: *IEEE Transactions on Parallel and Distributed Systems* 24.1, pp. 131–143.

## MAGAZINE ARTICLES

5. **Zheng, Yao**, Assad Moini, Wenjing Lou, Y. Thomas Hou, and Yuichi Kawamoto (n.d.). “Cognitive Security: Securing Burgeoning Landscape of Mobile Network”. In: *IEEE Network* 30.4, pp. 66–71.

## CONFERENCE PROCEEDINGS

6. **Zheng, Yao**, Matthias Schulz, Wenjing Lou, Y. Thomas Hou, and Matthias Hollick (2016). “Profiling the Strength of Physical-Layer Security: A Study in Blinding”. In: *WiSec 2016*. (acceptance rate: 0.255(13/51)).
7. **Zheng, Yao**, Bing Wang, Wenjing Lou, and Y. Thomas Hou (2015). “Privacy-Preserving Link Prediction in Decentralized Online Social Networks”. In: *ESORICS 2015*. (acceptance rate: 0.201(59/293)).
8. Yan, Qiben, **Yao Zheng**, Tingting Jiang, Wenjing Lou, and Y. Thomas Hou (2015). “PeerClean: Unveiling Peer-to-Peer Botnets through Dynamic Group Behavior Analysis”. In: *INFOCOM 2015*. (acceptance rate: 0.190(316/1640)).
9. Wang, Bing, **Yao Zheng**, Wenjing Lou, and Y. Thomas Hou (2014). “DDoS Attack Protection in the Era of Cloud Computing and Software-Defined Networking”. In: *NPSec 2014*.
10. **Zheng, Yao**, Ming Li, Wenjing Lou, and Y. Thomas Hou (2012). “SHARP: Private Proximity Test and Secure Handshake with Cheat-Proof Location Tags”. In: *ESORICS 2012*. (acceptance rate: 0.202(50/248)).

## PREPRINTS/ARXIV-ED PAPERS

11. Yamada, Naoto, Yuichi Kawamoto, Hiroki Nishiyama, Nei Kato, and **Yao Zheng** (n.d.). “A Performance Evaluation Model for Crowd Control Applications in IoT Environment by Using FeedBack Control Theory”. *IEEE Internet of Things Journal*, accepted.