

# Runhua Xu

Laboratory for Education and Research on Security Assured Information Systems Lab (LERSAIS)  
Department of Informatics and Networked Systems  
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## Current Position

*Ph.D. Student, Graduate Student Researcher*, University of Pittsburgh.

## Areas of Specialization

Information Assurance • Access Control • Data Security and Privacy • Insider Threat Mitigation

## Education

- 2015-present PH.D. STUDENT in Information Assurance, University of Pittsburgh, Pittsburgh, U.S.
- 2011-2014 M.S. in Computer Science, Beihang University<sup>1</sup>, Beijing, China.
- 2007-2011 B.E. in Software Engineering, Northwestern Polytechnical University, Xi'an, China.

## Publications & Talks

### CONFERENCE ARTICLES

- 2017 **Runhua Xu**, James B.D. Joshi, Prashant Krishnamurthy and David Tipper. "Insider Threat Mitigation in Attribute based Encryption." In *9th Annual National Cyber Summit (Research Track)*, Von Braun Center, Huntsville, AL, USA. 2017.
- 2016 **Runhua Xu** and James B.D. Joshi. "Enabling Attribute Based Encryption as an Internet Service." In *2016 IEEE 2nd International Conference on Collaboration and Internet Computing*, Pittsburgh, USA. pp. 417-426. IEEE, 2016.
- 2016 **Runhua Xu** and James B.D. Joshi. "An Integrated Privacy Preserving Attribute Based Access Control Framework." In *2016 IEEE 9th International Conference on Cloud Computing*, San Francisco, USA. pp. 68-76. IEEE, 2016.
- 2013 **Runhua Xu**, Yang Wang, and Bo Lang. "A Tree-Based CP-ABE Scheme with Hidden Policy Supporting Secure Data Sharing in Cloud Computing." In *Advanced Cloud and Big Data (CBD), 2013 International Conference on*, Nanjing, China. pp. 51-57. IEEE, 2013.
- 2013 Bo Lang, **Runhua Xu**, and Yawei Duan. "Extending the ciphertext-policy attribute based encryption scheme for supporting flexible access control." In *Security and Cryptography (SECRYPT), 2013 International Conference on*, Reykjavik, Iceland. pp. 1-11. IEEE, 2013.
- 2012 **Runhua Xu** and Bo Lang. "Survey on security model of authenticated key exchange protocols." *The 9th Graduate Students Academic Forum of Beihang University*. pp. 434-442. 2012. (in Chinese)

### JOURNAL ARTICLES

- 2015 **Runhua Xu**, and Bo Lang. "A CP-ABE scheme with hidden policy and its application in cloud computing." *International Journal of Cloud Computing, Advanced Cloud and Big Data*. vol. 4, no. 4, pp. 279-298. 2015.
- 2014 Bo Lang, **Runhua Xu**, and Yawei Duan. "Self-contained Data Protection Scheme Based on CP-ABE." *E-Business and Telecommunications, Communications in Computer and Information Science* pp. 306-321. 2014.

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<sup>1</sup>Beihang University, previously known as Beijing University of Aeronautics and Astronautics

## Academia Service & Activities

### JOURNAL REVIEWER

IEEE Transactions on Information Forensics and Security(TIFS),  
IEEE Transactions on Services Computing (TSC).

### CONFERENCE REVIEWER (INCLUDING EXTERNAL REVIEWS)

IEEE International Conference on Big Data (BigData 2016)  
IEEE International Conference on Collaboration and Internet Computing (CIC 2016)  
IEEE International Conference on Services Computing (SCC 2017)  
ACM Conference on Data and Application Security and Privacy (CODASPY 2016, 2017)  
ACM Symposium on Access Control Models and Technologies (SACMAT 2017)  
ACM International Conference on Information and Knowledge Management (CIKM 2017)

### VOLUNTEER & WEB MASTER

IEEE CIC 2016, 2017.  
IEEE IRI 2016.  
IEEE Cloud 2016.

## Intern & Teaching

### TEACHING ASSISTANT

2016 Spring Fall *Information Security & Privacy*. School of Computing and Information, University of Pittsburgh.  
2017 Spring *Security Management and Computer Forensics*. School of Computing and Information, University of Pittsburgh.  
2017 Spring *Implementation of Information System*. School of Computing and Information, University of Pittsburgh.  
2012 Spring *The Principle of Database System*. School of Computer Science and Engineering, Beihang University.

### TEACHING FELLOW

*Information Security & Privacy (Online)*. School of Computing and Information, University of Pittsburgh.  
(2016 Summer, 2016 Fall, 2017 Summer)

### INTERN

2014.3-2014.12 Research and Development Engineer. *Department of Image Search, Baidu Inc.*  
2011.7-2011.8 Software Development Engineer. *National Software Talent International Training Base (Xi'an)*.

## Grants, Honors & Awards

2016 Student Travel Award, IEEE Cloud 2016.  
2012-2013 The Scholarship of Graduate, Beihang University. (2 times)  
2011 Honored enrollment granted mandatory admission test waived.  
2008-2011 The Scholarship of Undergraduate, Northwestern Polytechnical University.(3 times)  
2008-2011 Excellent Student Leaders Award, Merit Student Award, Northwestern Polytechnical University.

## Other Service & Activities

2011-2013 Commissary in charge of Organization, Beihang University.  
2008-2010 Director of Science and Technology Association, Northwestern Polytechnical University.  
2008-present National Badminton Referee of China, Degree 2.