Dr. Jiangshan Yu (B.Eng, MSc, MPhil, PhD)

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RESEARCH INTERESTS

My research interests are in **cyber security and user privacy**. In particular, the focus of my research has been on applied crypto, secure authentication, key management, public key infrastructure, secure messaging, post-compromise security, and formal security verification.

EDUCATION

Ph.D in Cyber Security, Oct.2012-Sept.2016. **University of Birmingham**, UK.
Thesis: *Mitigating private key compromise*.

M.Phil in Cryptography (2011-2012). **University of Wollongong**, NSW, Australia.
Thesis: *Remote User Authentication in Distributed Systems and Networks*.

M.Sc. in Information Security (2010-2011). **University of Wollongong**, Australia.

B.Eng. in Computer Science and Technology (2005-2009), **Northeast Agricultural University**, Harbin, China. (**Top 1 out of 82, Best Thesis Award**).

POSITIONS

Research fellow, Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg, Luxembourg. (2016-Present)

Honorary research fellow, University of Birmingham, UK. (2016-Present)

Director, CloudTomo Limited, UK. (2014-2016)

Tech consultant, Jin Xin Tong Trust and Investment Corporation Ltd, UK. (2014-2015)

President, Endless Martial Arts Association, Wollongong, Australia. (2011-2012)

Manager, Department of Student Service, Wollongong Chinese Students & Scholars Association, Wollongong, NSW, Australia.(2010-2012)

SELECTED PROJECTS:

Co-Designer. *Huawei SoC Secure Boot Solution*, UK. 2016. (Funded by Huawei Ltd.)

Project manager. *Innovate UK project on user-friendly security and privacy to increase confidence in cloud-based systems*, UK. June - September, 2015. (Funded by Innovate UK.)

GRANT:

"Technology inspired feasibility study for secure email and cloud storage", GBP33,000 from Technology Strategy Board (Innovate UK), 2015.

PROFESSIONAL ACTIVITIES:

(Finalist) RAEng Enterprise Fellowship, Royal Academy of Engineering, UK. 2015.

Chair, *The future of digital currency and block chain technology workshop*, Birmingham, UK. September, 2015.

PC member, *Software Architecture for Big Data and the Cloud*, 2016.

PATENTS

Key Usage Detection (Patent pending)

- UK Patent Application GB 1416188.9
- US Patent Application US 14/852,342

AWARDS

Scholarships:

- Universitas 21 scholarship from the University of Birmingham, 2015.
- EPSRC project funding for PhD studies at University of Birmingham, 2012 - 2015.
- Overseas top-up scholarship from the University of Birmingham for PhD studies, 2012 - 2015.
- First class scholarship, Northeast Agricultural University, Harbin, Heilongjiang, China, 2006, 2007, and 2008.

Other:

- **Chinese Government Award For Outstanding PhD Scholar Abroad**, 2016.
- **First place award**, the Coniston poster competition, University of Birmingham, UK, 2014.
- **Outstanding Graduates of Heilongjiang Province**, Heilongjiang, China, 2009;
- **Outstanding Graduates of Northeast Agricultural University**, Harbin, Heilongjiang, China, 2009;
- **Best Undergraduate Thesis Award**, Northeast Agricultural University, Harbin, Heilongjiang, China, 2009;
- **Outstanding Academic Award**, The Northeast Agricultural University, China, 2008;
- **First National Prize** of China Contemporary Undergraduate Mathematical Contest in Modeling, China, 2007;
- **Second National Prize** of China Contemporary Undergraduate Mathematical Contest in Modeling, China, 2006;
- **Outstanding Student Award** of The Northeast Agricultural University, China, 2006;
- **Outstanding Student Leadership Award**, The Northeast Agricultural University, China, 2006.