

Tao Zhang

Curriculum Vitae

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Education

- 2012–present **Doctor of Philosophy Student**, *supervised by Sherman S.M. Chow.*
Department of Information Engineering, The Chinese University of Hong Kong
- 2007–2011 **Bachelor of Engineering.**
Department of Information Engineering, The Chinese University of Hong Kong
- 2007–2011 **Minor Degree in French.**
The Chinese University of Hong Kong
- 2009–2009 **Exchange Student.**
Syracuse University, USA

Awards

- 2014 fall **Outstanding Teaching Assistant Award.**
Department of Information Engineering, The Chinese University of Hong Kong
- 2012–2013 **Outstanding Teaching Assistant Award.**
Department of Information Engineering, The Chinese University of Hong Kong
- 2009 fall **Yasumoto International Exchange Scholarship.**
The Chinese University of Hong Kong
- 2007–2011 **Full Scholarship for Undergraduate Study.**
The Chinese University of Hong Kong

Professional Service

- 2016 **TPC Member.**
SSCC'16: Workshop on Security in Self-Organizing Networks (SelfNet'16)
- 2016 **External Reviewer.**
ACNS, ASIACCS, POST
- 2015 **External Reviewer.**
INFOCOM, FC, ASIACCS, ICICS, INSCRYPT, SECURECOMM, IEEE CNS
- 2014 **External Reviewer.**
ACM CCS, ESORICS, ASIACCS, ICICS, IEEE CNS, AISAPKC, ISPEC
- 2013 **External Reviewer.**
ASIACRYPT, ESORICS, ACNS, ICICS, INSCRYPT, GLOBECOM, CNS-SPCC

Experience

Vocational

- 2011–2012 **Software Engineer.**
ASM Pacific Technology Ltd. Hong Kong
Develop software for numerically-controlled semiconductor material production line.

Miscellaneous

2008–2009 **Sport Manager.**

Information Engineering Student Society of CUHK

Organize sports activities for undergraduate students in the department of information engineering in CUHK.

2008–2009 **Community Service Volunteer.**

Shek Kip Mei Lutheran Centre for the Blind, Hong Kong

Publications

Sherman S. M. Chow, Haibin Zhang, and Tao Zhang. Real hidden identity-based signatures. In *FC*, 2017.

Russell W. F. Lai, Tao Zhang, Sherman S. M. Chow, and Dominique Schroöder. Efficient sanitizable signatures without random oracles. In *ESORICS*, 2016.

Tao Zhang, Sherman S. M. Chow, Zhe Zhou, and Ming Li. Privacy-preserving wi-fi fingerprinting indoor localization. In *IWSEC*, 2016.

Tao Zhang, Sherman S.M. Chow, and Jinyuan Sun. Password-controlled encryption with accountable break-glass access. In *ASIACCS*, 2016.

Tao Zhang, Xiuhua Wang, and Sherman S. M. Chow. Privacy-preserving multi-pattern matching. In *SecureComm*, 2016.

Zhe Zhou, Tao Zhang, Sherman S.M. Chow, Yupeng Zhang, and Kehuan Zhang. Efficient authenticated multi-pattern matching. In *ASIACCS*, 2016.

Tao Zhang and Sherman S. M. Chow. Security of direct anonymous authentication using TPM 2.0 signature - A possible implementation flaw. In *Inscrypt*, 2014.

Research Projects

- **Trusted Platform Module.**

Possible attack on direct anonymous authentication with TPM.

- **Privacy-Preserving Machine Learning and Data Mining.**

Mainly the privacy protection in prediction phase.

- **Authenticated Multi-Pattern Matching.**

Authentication on Aho-Corasick Automaton.

- **Structure-Preserving Cryptosystem.**

Certificateless encryption and certificateless signature with structure-preservation and their applications.

Skills

- **Cryptography.**

Specialized in Structure-Preserving Primitives, Anonymous Credential, Secure Multi-Party Computation, E-Cash, etc.

- **Secure Distributed Systems.**

Experienced in designing and developing secure distributed systems.

- **Programming.**

Experienced in C, C++, C#, Java, Python, MatLab, HTML/JavaScript/PHP/CSS.

- **Machine Learning.**

Familiar with Machine Learning techniques.

- **Data Mining.**

Familiar with Data Mining techniques and applications.

- **Database.**

SQL, Database Design and Management

Languages

English **Excellent**
Mandarin **Excellent**
Cantonese **Fluent**
French **Fair**

Excellent in both written and spoken English.
Excellent in both written Chinese and spoken Mandarin.
Fluent in spoken Cantonese.
Fair in both written and spoken French.