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Name: Xinyu Li
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Education: PhD
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## Research Interest: Applied Cryptography

- Cryptographic protocols
- Provable security
- Blockchain Security

## Working Experience

Post-doctoral Fellow, working with Prof. Man Ho Au 2020.12 — now
Department of Computer Science, The University of Hong Kong, Hong Kong

## Education

- PhD of Computer Science and Technology 2016.09 — 2020.09
  University of Chinese Academy of Sciences, Beijing, China
  Advisor: Prof. Jing Xu
- Joint Master Program 2014.09 — 2016.06
  Institute of Software, Chinese Academy of Sciences, Beijing, China
  Advisor: Prof. Jing Xu and Prof. Zhenfeng Zhang
- Master of Electronic and Communication Engineering 2013.09 — 2016.06
  University of Science and Technology of China, Hefei, China
  Advisor: Prof. Dengguo Feng and Prof. Honggang Hu
- Bachelor of Information Security 2009.09 — 2013.06
  University of Science and Technology of China, Hefei, China
  Thesis advisor: Prof. Zhenfeng Zhang

## Articles

1. **Xinyu Li,** Jing Xu, Zhenfeng Zhang, Dengguo Feng: On the security of TLS resumption and renegotiation, ***China Communications***, 2016, 13(12): 176--188.
2. **Xinyu Li,** Jing Xu, Zhenfeng Zhang, Dengguo Feng, Honggang Hu: Multiple handshakes security of TLS 1.3 candidates, ***IEEE Symposium on Security and Privacy (S&P)***, 2016,

486–505. (Acceptance Rate: 13.8%)

3. Bingyong Guo, **Xinyu Li*：** Multi-valued Byzantine Consensus Scheme with High Transmission Efficiency, ***Journal of Cryptologic Research,*** 2018, 5(5): 516-528.

4. **Xinyu Li,** Jing Xu, Zhenfeng Zhang: Revisiting the Security of Qian et al.'s Revised Tree- LSHB+ Protocol. ***Wireless Personal Communications***, 2019, 106(2):321–343.

5. **Xinyu Li**, Jing Xu, Zhenfeng Zhang, Xiao Lan, Yuchen Wang: Modular Security Analysis of OAuth 2.0 in the Three-Party Setting. ***IEEE European Symposium on Security and Privacy (EuroS&P)***, 2020, 276--293. (Acceptance Rate: 14.5%)

6. **Xinyu Li,** Jing Xu, Xiong Fan, Yuchen Wang, Zhenfeng Zhang: Puncturable Signatures and Applications in Proof-of-Stake Blockchain Protocols. ***IEEE Transactions on Information Forensics and Security (TIFS)***, 2020, 15:3872--3885.

7. **Xinyu Li,** Jing Xu, Lingyuan Yin, Yuan Lu, Qiang Tang, Zhenfeng Zhang: Escaping from Consensus: Instantly Redactable Blockchain Protocols in Permissionless Setting. ***IEEE Transactions on Dependable and Secure Computing (TDSC)***, 2022.

8. Lixin Liu, **Xinyu Li**, Man Ho Au, Zhuoya Fan, Xiaofeng Meng: Metadata Privacy Preservation for Blockchain-Based Healthcare Systems. ***International Conference on Database Systems for Advanced Applications (DASFAA)***, 2022, 404–412. (Acceptance Rate: 27.3%)

9. Chengru Zhang, **Xinyu Li* (corresponding author)**, Man Ho Au: ePoSt: Practical and Client-friendly Proof of Storage-Time. ***IEEE Transactions on Information Forensics and Security (TIFS)***, 2022.

10. **Xinyu Li,** Jing Xu, Man Ho Au, Chengru Zhang: General design of (tag-based) puncturable signature and its application. (Manuscript)

## Honors and Awards

"New academic star", InForSec, Tsinghua University, 2016.

## Patents

1. **A puncturable signature scheme**
   Jing Xu, **Xinyu Li** and Zhenfeng Zhang
   Patent number: ZL 201910279881.8, CN.
2. **Tag based puncturable signature and its application in PoS blockchain protocols**
   Jing Xu, **Xinyu Li**, Zhenfeng Zhang and Xinlei Zhai
   Patent number: ZL 201910917779.6, CN

## Academic Service

- Conference Review：FC (2017), ACM CCS (2019), ASIACRYPT (2020), ESORICS (2020), ACM ASIACCS (2020,2021,2022), ACNS(2021), CT-RSA(2022).
- Journal Review：TSC (2018), TMC (2019), TDSC(2021), JISAS(2021,2022).