

Xinyu Li

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Name: Xinyu Li

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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\***, Man Ho Au: ePoSt: Practical and Client-friendly Proof of Storage-Time. (Manuscript)
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).