Yi Liu

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EDUCATION

The University of Hong Kong (HKU)   Sept. 2018 – Present
- Ph.D. Candidate in Cryptography | Joint Ph.D. Programme with SUSTech
- Research Interests: Cryptographic Protocols, including Secure Multi-Party Computation, Zero-Knowledge Proofs, etc.
- Supervisor: Prof. Siu-Ming Yiu (HKU) and Prof. Qi Wang (SUSTech)

Southern University of Science and Technology (SUSTech)   Sept. 2014 – July 2018
- B.Eng. in Computer Science and Technology | GPA: **3.84/4.00** (Core); **3.70/4.00** (Overall)
- Thesis: An Evaluation System Based on Blockchain and Linkable Ring Signature. [**Slides**]

PUBLICATION LIST

Yi Liu, Qi Wang, Siu-Ming Yiu. Making Private Function Evaluation Safer, Faster, and Simpler. To appear in *Public-Key Cryptography. PKC 2022.*

Yi Liu, Qi Wang, Siu-Ming Yiu. Improved Zero-Knowledge Argument of Encrypted Extended Permutation. In *Information Security and Cryptology. Inscrypt 2021.* [**ePrint**]

Yi Liu, Qi Wang, Siu-Ming Yiu. Blind Polynomial Evaluation and Data Trading. In *Applied Cryptography and Network Security. ACNS 2021.* [**ePrint**] [**Slides**]

Yi Liu, Qi Wang, Siu-Ming Yiu. An Improvement of Multi-Exponentiation with Encrypted Bases Argument: Smaller and Faster. In *Information Security and Cryptology. Inscrypt 2020.* [**ePrint**] [**Slides**]

Yi Liu and Qi Wang. An E-voting Protocol Based on Blockchain. *Manuscript.* [**ePrint**]

INVITED TALKS

Conference talks Inscrypt'21, ACNS'21, Inscrypt'20.

HONORS & AWARDS

Best Thesis Award, Department of Computer Science and Engineering, SUSTech		2018
Third Prize, Scholarship for Outstanding Students, SUSTech		2017
Second Prize, Scholarship for Outstanding Students, SUSTech		2016
College Student Start-up Scholarship, SUSTech		2014 – 2018

EXPERIENCE

Research Assistant
- CoCrypto Lab, Adviser: Prof. Qi Wang   Sept. 2016 – Aug. 2018
- SUSTech Innovation Center for Data Science, Adviser: Dr. Rusong Zheng   July 2017 – Aug. 2017
- UAV and Sensor Network Lab, Adviser: Prof. Qi Hao   July 2015 – Sept. 2016

Teaching Assistant
- COMP2119: Introduction to Data Structures and Algorithms, Fall 2021   HKU
- CS403: Cryptography and Network Security, Fall 2019, Fall 2020   SUSTech
- COMP7904: Information Security: Attacks and Defense, Spring 2019   HKU
- CS304: Software Engineering, Spring 2017   SUSTech
- CS201: Discrete Mathematics, Fall 2016   SUSTech
- CS302: Operating System, Spring 2016   SUSTech

SKILLS

C/C++, Python, LaTeX, Java, HTML/CSS, JavaScript, etc.