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Curriculum Vitae

Wei Qi

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1 Research Interests

I am currently focused on Theoretical Cryptography but I am broadly interested in Theoretical Computer Science as well. I am particularly interested in lower bounds problems and impossibility results. That being said, I do enjoy finding optimal construction that matches the lower bound, satisfied by the fact that the construction will be the best one can get. I also enjoy coding and would be happy to implement cryptographic primitives whose security can be proven.

2 Education

- **University of Virginia**, Charlottesville, USA.
  M.C.S. Advisor: Mohammad Mahmoody, 2021-2022.

- **Central South University**, Chang Sha, China.
  B.Eng. Major: Data Science and Big Data Technology, 2016-2020.
  Minor: Japanese Language and Literature, 2017-2020.

3 Publications

The convention for publications in cryptography and theoretical computer science is to list authors alphabetically.

Conference Papers

2. Mohammad Mahmoody, Wei Qi, and Ahmadreza Rahimi. *Lower Bounds for the Number of Decryption Updates in Registration-Based Encryption.* Theory of Cryptography Conference (TCC) 2022.

1. Logan Moody, Wei Qi, Abdolrasoul Sharifi, Layne Berry, Joey Rudek, Jayesh Gaur, Jeff Parkhurst, Sreenivas Subramoney, Kevin Skadron and Ashish Venkat. *Speculative Code Compaction: Eliminating Dead Code via Speculative Microcode Transformations.* 55th IEEE/ACM International Symposium on Microarchitecture (MICRO) 2022.

Journal Papers

1. Wei Qi, Wei Liu, Xuxun Liu, Anfeng Liu, Tian Wang, Neal N Xiong and Zhiping Cai. *Minimizing Delay and Transmission Times with Long Lifetime in Code Dissemination Scheme for High Loss Ratio and Low Duty Cycle Wireless Sensor Networks.* Sensors 2018, 18(10), 3516.

4 Work Experience

Teaching Assistant. CS 5012 Foundations of Computer Science, University of Virginia, 08.2021-12.2021.

Internship. Software Engineer, Fujitsu Nanda Software Technology Co., Ltd, Language: JAVA, 01.2019-02.2019.

5 Courses

Graduate Course	Instructor	Grade
Theory of Computation	Mohammad Mahmoody	A^+
Introduction to Cryptography	David Wu	A^+
Number Theory	Ken Ono	A
Introduction to Geometry	Walker Stern	A

6 Languages

- Chinese (Native)

- English (TOEFL: 109)

- Japanese (JLPT: N2)