

Curriculum Vitae

Wei Qi

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1 Research Interests

I am focused on Theoretical Cryptography but I am broadly interested in Theoretical Computer Science as well. So far, my research has been devoted to understanding basic problems in foundations of public key encryption; in particular, I have studied how we can construct new primitives with useful features such as not having the key-escrow problem in identity based encryption (IBE). In particular, I enjoy proving tight positive and negative results that match to reveal what exactly we can do. I also enjoy implementing carefully designed algorithms and watch them work as predicted by theory.

2 Education

- **University of Virginia**, Charlottesville, USA.
M.C.S. Advisor: Mohammad Mahmoody, GPA: 4.0/4.0, 2021-2022.
- **Central South University**, Chang Sha, China.
B.Eng. Major: Data Science and Big Data Technology, GPA: 85.67/100, 2016-2020.
Minor: Japanese Language and Literature, GPA: 87.84/100, 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)