Curriculum Vitae

Zhiqiang Ma, Ph.D. Candidate

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⌂ Henan, China   ♂ Male

Short Biography

I received my M.E. degree in Computer Science and Technology from Chongqing University of Technology (CQUT) in 2023. Currently, I am a second-year Ph.D. student in the College of Computer and Cyber Security at Fujian Normal University, under the supervision of Prof. Jianting Ning. My research has been published in cybersecurity conference like Applied Cryptography and Network Security Workshops (ACNS Workshops) and cybersecurity journal like the International Journal of Network Security (IJNS). My research interests include Authenticated Key Exchange, Password-based Authenticated Key Exchange, Privacy, and Anamorphic Cryptography.

Education

Sept 2023 – present	**Ph.D. Candidate, College of Computer and Cyber Security, Fujian Normal University, China**, in Cyberspace Security. Supervisor: Jianting Ning (Wuhan University). Thesis proposal title: *Research on Provable Secure Privacy-Perserving Authenticated Key Exchange Protocol.*
Sept 2020 – June 2023	**M.E., College of Computer Science and Engineering, Chongqing University of Technology, China**, in Computer Science and Technology. Supervisors: Zheng Yang (Southwest University), Jun He (Chongqing University of Technology). Thesis title: *Security Analysis and Improvement of Asymmetric Multi-factor Authenticated Key Exchange Protocol.*
Sept 2016 – June 2020	**B.E., School of Computer and Information Engineering, Xinxiang University, China**, in Internet of Things Engineering.

Research Publications

Conference

1. **Zhiqiang Ma**, Jianting Ning, Shuai Han, Xinyi Huang, Debiao He, and Zheng Yang, "Anamorphic authenticated key exchange without trapdoor keys," in *submitted to ASIACRYPT 2025*, (Under Review), 2025.

2 **Zhiqiang Ma**, Jianting Ning, Shuai Han, Xinyi Huang, Debiao He, and Zheng Yang, "Authenticated key exchange with enhanced privacy: Enabling perfect partner privacy," (Under Revision), 2025.

3 **Zhiqiang Ma** and Jun He, "Outsider key compromise impersonation attack on a multi-factor authenticated key exchange protocol," in *ACNS Workshops*, ser. Lecture Notes in Computer Science, vol. 13285, Springer, 2022, pp. 320–337.

4 Wenxin Jia, Zheng Yang, and **Zhiqiang Ma**, "Lightweight leakage-resilient authenticated key exchange for industrial internet of things," in *TrustCom*, IEEE, 2024, pp. 1051–1059.

Journal

1 **Zhiqiang Ma** and Jun He, "Cryptanalysis and improvement of a multi-factor authenticated key exchange protocol," *International Journal of Network Security*, vol. 25, no. 5, pp. 764–776, Sep. 2023.

Skills

Languages	Strong reading, writing and speaking competencies for English.
Coding	LaTeX, Python.
Tools	Vim, Git.

Miscellaneous Experience

Funding

2023 — Chongqing University of Technology, **Asymmetric Multi-Factor Fusion-Based Authenticated Key Exchange Protocol**, April 2022 - April 2023, 5000RMB, Completed, Principal Investigator.

Scholarships & Awards

2024 — **Second-class Scholarship** for graduate students.

2022 — **Third-class Scholarship** for graduate students.

2021 — **Third-class Scholarship** for graduate students.

2020 — **Excellent Student Awards in School-level**, **Triple-A Student in Province-level**.

2019 — **National Encouragement Scholarship** for undergraduate students, **Triple-A Student in School-level**.

2018 — **First-class Scholarship** for undergraduate students.

Certification

2022 — **Network Engineer (Intermediate Level)**, certificated by Qualification of Computer and Software Professional.

Miscellaneous Experience (continued)

2019   **Computer Level 2 MS Office Advanced Applications**, certified by National Computer Rand Examination.

Academic Services

1   **Assistant organizer** for 2023 Maritime Silk Road International Conference on the Cooperation and Integration of Industry, Education, Research and Application "Cyber Security and Digital Application Forum", 2023.

2   **Assistant organizer** for the 16th Joint Conference on Harmonious Human Machine Environment (HHME 2020), 2020.