

Raymond K. Zhao

Department of Software Systems and Cybersecurity
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Academic Qualifications

- 2018–2022 **Doctor of Philosophy**,
Faculty of Information Technology,
Monash University, Clayton Campus.
PhD thesis: “Efficient Implementation Techniques for Lattice-based Cryptosystems”
Supervisors: Associate Professor Ron Steinfeld & Dr. Amin Sakzad
- 02/2016–12/2017 **Master of Networks and Security**,
Faculty of Information Technology,
Monash University, Caulfield Campus.
Masters thesis: “Efficient implementation techniques for lattice-based crypto”
- 09/2011–06/2015 **Bachelor of Engineering**,
College of Computer Science & Technology,
Zhejiang University, China.
Speciality: Computer Science & Technology

Scholarships and Awards

- 10/2021 Monash University Graduate Research Completion Award
- 10/2021 Faculty Graduate Research Completion Award
- 10/2021 Faculty of Information Technology International Postgraduate Research Scholarship
- 04/2018 Dux of Postgraduate (Master of Networks and Security), Cliff Bellamy Awards 2018, Monash University
- 2018 RTP Stipend, Monash University
- 2018 Monash International Tuition Scholarship (MITS), Monash University
- 02/2016 Information Technology International Merit Scholarship, Monash University

Academic Employment

- 08/2021–now **Research Assistant**,
Faculty of Information Technology, Monash University.

02/2018–06/2021 **Teaching Associate,**
Faculty of Information Technology, Monash University.
Semester 1, 2021 FIT9137 Introduction to computer architecture and networks
Semester 1, 2021 FIT3173 Software security
Semester 1, 2020 FIT9137 Introduction to computer architecture and networks
Semester 1, 2020 FIT5163 Information and computer security
Semester 1, 2020 FIT2093 Introduction to cyber security (Admin Tutor)
Semester 2, 2019 FIT5124 Advanced topics in security (Admin Tutor)
Semester 1, 2019 FIT2093 Introduction to cyber security (Admin Tutor)
Semester 2, 2018 FIT5124 Advanced topics in security
Semester 1, 2018 FIT2093 Introduction to cyber security

06/2017–11/2017 **Research Assistant,**
Faculty of Information Technology, Monash University.
Responsibilities:

- Undertaking research duties in the area of Lattice-based Cryptosystems and its Implementation, as directed by the supervisors, Dr Ron Steinfeld and Dr Amin Sakzad.
- Improving the efficiency of the Titanium, a new lattice-based cryptosystem proposed by the supervisors and their colleagues.
- Implementing an efficient and timing-attack resistant software implementation of the Titanium.

Professional Profile

- Highly developed research qualitative and analytical skills with a strong capacity to conduct independent research
- Proven ability to conceptualise problems and develop well-reasoned and integrated solutions, as demonstrated throughout research employment, Masters, and PhD research
- Strong programming skills in C and assembly. Working knowledge of Linux and L^AT_EX
- Native speaker of Mandarin

Referees

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