

# Raymond K. Zhao

Cybersecurity Lab  
Faculty of Information Technology  
Monash University  
✉ raymond.zhao@monash.edu  
📄 raykzhao.github.io

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## Academic Qualifications

- 2018–2022 **Doctor of Philosophy**,  
*Faculty of Information Technology*,  
Monash University, Clayton Campus.  
Supervisors: Ron Steinfeld & 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

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## Scholarships and Awards

- 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

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## Academic Employment

- 02/2018–now **Teaching Associate**,  
*Faculty of Information Technology*, Monash University.
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| 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 **Casual Academic Research Assistant to Dr Amin Sakzad and Dr Ron Steinfeld,**  
*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.
- 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.

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## 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 and Masters research
- Strong programming skills in C and assembly. Working knowledge of Linux and L<sup>A</sup>T<sub>E</sub>X
- Native speaker of Mandarin

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## Extra Curricular Activities – Volunteering

07/2016–09/2016 **ASK Me Volunteer,**  
*Monash Student Association (MSA), Monash University.*

09/2016 **Support Crew, Monash MS 24 Hour Mega Swim,**  
*Monash Sport, Monash University.*

07/2016 **2016 Monash Games Court Operations Volunteer (Fustal),**  
*Monash Sport, Monash University.*

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## Interests

Board games, Card games, Japanese culture

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## Referees

Dr Ron Steinfeld  
*Senior Lecturer*  
*Faculty of Information Technology*  
Monash University  
Email: ron.steinfeld@monash.edu

Dr Amin Sakzad  
*Lecturer*  
*Faculty of Information Technology*  
Monash University  
Email: amin.sakzad@monash.edu