

# Jiafan WANG

## Curriculum Vitae

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### Education

- 2016–present **Doctor of Philosophy Student**, supervised by Sherman S.M. Chow.  
Department of Information Engineering, The Chinese University of Hong Kong
- 2012–2016 **Bachelor of Engineering**, major in Computer Science and Technology.  
(GPA: 90.73/100, Rank: 1st), Central South University

### Awards

- 2021 Best Student Paper Award, DBSec
- 2019 Teaching Assistant Award, The Chinese University of Hong Kong
- 2016 Outstanding Graduate of CSU, Central South University
- 2013, 2014 First-Class Scholarship of CSU, Central South University
- 2013, 2014 Honor Student of CSU, Central South University
- 2013 National Scholarship, Central South University
- 2013 Star-Net Scholarship, Central South University

### Research Interests

- Searchable Encryption
- Encrypted Database
- Applied Cryptography
- Cloud Security
- Trusted Execution Environment
- Cryptocurrency

### Publications

- 2020–2021 **Jiafan Wang**, Sherman S.M. Chow.  
*Omnes pro uno*: Practical Multi-Writer Encrypted Database.  
*To appear at USENIX Security Symposium (USENIX SEC) 2022*
- Jiafan Wang**, Sherman S.M. Chow.  
Forward and Backward-Secure Range-Searchable Symmetric Encryption.  
*To appear at Privacy Enhancing Technologies Symposium (PETS) 2022*

**Jiafan Wang**, Sherman S.M. Chow.

Simple Storage-Saving Structure for Volume-Hiding Encrypted Multi-Maps.  
*Conference on Data and Applications Security and Privacy (DBSec)* 2021

2019-2020 **Jiafan Wang\***, Minxin Du\*, Sherman S.M. Chow.

Stargazing in the Dark: Secure Skyline Queries with SGX.  
*Conference on Database Systems for Advanced Applications (DASFAA)* 2020

2018-2019 Russell W. F. Lai, Viktoria Ronge, Tim Ruffing, Dominique Schröder, Sri Aravinda Krishnan Thyagarajan, **Jiafan Wang**.

Omniring: Scaling Up Private Payments Without Trusted Setup.  
*ACM Conference on Computer and Communications Security (CCS)* 2019

2017-2018 **Jiafan Wang**, Sherman S.M. Chow.

Secure Strategyproof Ascending-price Spectrum Auction.  
*IEEE Symposium on Privacy-Aware Computing (PAC)* 2017

## ■ Internship & Projects

2020.05- (Remote) Research Intern in Trust-Native Tech, Ant Financial

2020.09 *Distributed Key Management From Threshold Cryptography*

2014.09- CSU Innovation Project

2015.05 *A Smart Home System based on Expression Sequence Identification*

## ■ Teaching Assistant Experience

2021 Information and Software Engineering Practice (IERG3080)

2020 Data Structures (CSCI2100/ESTR2102)

2018 Technology, Society and Engineering Practice (ENGG2601)

2017,2019 Problem Solving By Programming (ENGG1110/ESTR1002)

2016,2017,2018 Introduction to Engineering Design (ENGG1100)

## ■ Selected Reviewer Experience

2022 Usenix Security<sup>†</sup>, CCS, TheWebConf, ESORICS, AsiaCCS, ICDCS

2021 Crypto<sup>†</sup>, Usenix Security<sup>†</sup>, ESORICS; Journal: TDSC

2020 ICDCS, ESORICS, AsiaCCS, CNS; Journal: JISA

2019 Crypto, ESORICS, ACNS, ISPEC, ICICS; Journal: TIFS, TECS

2018 ESORICS, GlobeCom; Journal: TIFS, TECS, TMC

2017 ESORICS, ACNS, ISC; Journal: TIFS, FGCS

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\*Co-first author

<sup>†</sup>Marked in *Comments for PC* but not propagated to the proceedings. Got a “Good review” rating for Usenix.