Xu Yanhong

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EDUCATION

Ph.D. in Mathematics

Aug 2014–Jan 2019

Nanyang Technological University, Singapore

CGPA: 4.9/5.0

• Supervisors: Professor Wang Huaxiong, Professor Ling San, Dr Khoa Nguyen

B.S. in Mathematics

Sep 2010-Jun 2014

Xiamen University, China

CGPA: 3.71/4.0

• Thesis Advisor: Professor Ni Du

PROFESSIONAL EXPERIENCE

Postdoc Associate in Computer Science

Feb 2019-Feb 2021

University of Calgary, Canada

• Supervisor: Professor Rei Safavi-Naini

CONFERENCE PUBLICATIONS

- Forward-Secure Group Signatures from Lattices. San Ling, Khoa Nguyen, Huaxiong Wang, and **Yanhong Xu**. In PQCrypto 2019. LNCS, vol. 11505, pp. 44-64. Springer, 2019.
- Accountable Tracing Signatures from Lattices. San Ling, Khoa Nguyen, Huaxiong Wang, and Yanhong Xu. In CT-RSA 2019. LNCS, vol. 11405, pp. 556-576. Springer, 2019.
- Constant-size group signatures from lattices. San Ling, Khoa Nguyen, Huaxiong Wang, and Yanhong Xu. In PKC 2018, volume 10770 of LNCS, pages 58–88. Springer, 2018.
- Lattice-Based Group Signatures: Achieving Full Dynamicity with Ease. San Ling, Khoa Nguyen, Huaxiong Wang, and **Yanhong Xu**. In ACNS 2017, volume 10355 of LNCS, pages 293–312. Springer, 2017.

JOURNAL PUBLICATIONS

• Lattice-Based Group Signatures: Achieving Full Dynamicity (and Deniability) with Ease. San Ling, Khoa Nguyen, Huaxiong Wang, and **Yanhong Xu**. In Theoretical Computer Science, vol. 783 (2019), pp. 71-94.

MANUSCRIPTS

- Traceable Policy-Based Signatures and Instantiation from Lattices. Yanhong Xu, Rei Safavi-Naini, Khoa Nguyen, and Huaxiong Wang. In arXiv preprint arXiv:2007.00033.
- Compressing the Transaction Data of Blockchain. Ivan Lau, Shang Li, Evan MacNeil, Alexandra McSween, Abhishek Kumar Shukla, and **Yanhong Xu**. The final report of the Math to Power Industry Workshop Aug 2020.

TALKS

- "Accountable Tracing Signatures From Lattices". At CT-RSA 2019, San Francisco, US, 8 Mar 2019.
- 6. "Group Signatures with Advanced Features From Lattices". Thesis defense at NTU, Singapore, 11 Dec 2018.
- 5. "Stern-Like Zero-Knowledge Protocol". At Shaanxi Normal University, Xi'an, China, 29 Sep, 2018.
- 4. 'Introduction of Group Signatures". At IFHS, XiDian University, Xi'an, China, 28 Sep 2018.
- "Stern-Like Zero-Knowledge Protocol". At IFHS, XiDian University, Xi'an, China, 26 Sep, 2018.
- "Constant-size group signatures from lattices". At PKC 2018, Rio de Janeiro, Brazil, 28 Mar 2018.
- 1. "Lattice-Based Group Signatures: Achieving Full Dynamicity with Ease". At ACNS 2017, Kanazawa, Japan, 11 July 2017.

PROFESSIONAL ACTIVITIES

- Program Committees: ProvSec 2020
- External Conference reviews: Asiacrypt, PKC, ESORICS, ACNS, CT-RSA, FC, AsiaCCS, ACISP, ISC, ACM-CCSW
- Journal reviews: Theoretic Computer Science, Finite Fields and Their Applications, Advances in Mathematics of Communication, IJACT, IET Information Security

HONORS & AWARDS

- Nanyang Research Scholarship by Nanyang Technological University, Aug 2014
 –Aug 2018.
- First Grade National Scholarship by Ministry of Education, China, in AY 2011–2012.
- First Grade National Scholarship of Encouragement by Ministry of Education, China, in AY 2010–2011 and AY 2012–2013.
- Travel grants sponsored by Division of Mathematical Sciences, SPMS, Nanyang Technological University, July 2017, Mar 2018.

PROFESSIONAL LEARNING AND DEVELOPMENT

Postdoctoral Certificate in University Teaching and Learning

University of Calgary, Canada

- SoTL Foundations: badge awarded on 17 Jun 2020
- Emerging Teachers Development: badge awarded on 30 Jan 2020
- Developing Your Teaching Dossier: badge awarded on 30 Jan 2020
- Theories and Practices: badge awarded on 30 Jan 2020

Quality Graduate Supervision MOOC

University of Calgary, Canada

• Badge awarded on 07 Apr 2020

TEACHING EXPERIENCE

Teaching Assistant

Nanyang Technological University

- $\bullet \ \ Discrete \ Mathematics MH1812 \ (2016 \ Spring, \ 2016 \ Fall, \ 2017 \ Spring, \ 2017 \ Fall, \ 2018 \ Spring).$
- Mathematics II MH1811 (2016 Spring)

Part-Time Teacher

Dec~2013--Jun~2014

Pashu Gaoshou Tuition Center, Xiamen, China

• Grade 6 and Grade 8 Mathematics