WENHAO WANG

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EDUCATION

University of Chinese Academy of Sciences Ph.D. in Information Security	Sept. 2009 - Jan. 2015
Ocean University of China B.E. in Computer Science and Technology	Sept. 2005 - July 2009
WORK EXPERIENCE	
Institute of Information Engineering, CAS Research Associate Professor	Since Dec. 2018
Indiana University Bloomington Visiting Researcher	Apr. 2016 - Aug. 2018
Institute of Information Engineering, CAS Research Assistant Professor	Feb. 2015 - Dec. 2018

SELECTED PUBLICATIONS IN 5 YEARS

- (Manuscript) Toward Scalable Fully Homomorphic Encryption Through Light Trusted Computing Assistance. Wenhao Wang, Yichen Jiang, Qintao Shen, Weihao Huang, Hao Chen, Shuang Wang, XiaoFeng Wang, Haixu Tang, Kai Chen, Kristin Lauter, Dongdai Lin
- Enabling Rack-scale Confidential Computing using Heterogeneous Trusted Execution Environment. Jianping Zhu, Rui Hou, XiaoFeng Wang, Wenhao Wang, Jiangfeng Cao, Boyan Zhao, Zhongpu Wang, Yuhui Zhang, Jiameng Ying, Lixin Zhang, Dan Meng. 2020 IEEE Symposium on Security and Privacy (S&P) (to appear, CCF-A).
- Bluethunder: A 2-level Directional Predictor Based Side-Channel Attack against SGX. Tianlin Huo, Xiaoni Meng, **Wenhao Wang**, Chunliang Hao, Pei Zhao, Jian Zhai, Mingshu Li. IACR Transactions on Cryptographic Hardware and Embedded Systems (**CHES'2020**) (CCF-B, Corresponding Author)
- Beware of Your Screen: Anonymous Fingerprinting of Device Screens for Off-line Payment Protection. Zhe Zhou, Di Tang, **Wenhao Wang**, XiaoFeng Wang, Zhou Li, Kehuan Zhang. Annual Computer Security Applications Conference (**ACSAC'2018**) (CCF-B)
- Symbolic-Like Computation and Conditional Differential Cryptanalysis of QUARK. Jingchun Yang,
 Meicheng Liu, Dongdai Lin, Wenhao Wang. 13th International Workshop on Security (IWSEC'2018)
 (CCF-C)
- Correlation Cube Attacks: From Weak-Key Distinguisher to Key Recovery. Meicheng Liu, Jingchun Yang, Wenhao Wang, Dongdai Lin. 37th Annual International Conference on the Theory and Applications of Cryptographic Techniques (Eurocrypt'2018) (CCF-A)
- Racing in Hyperspace: Closing Hyper-Threading Side Channels on SGX with Contrived Data Races. [Guoxing Chen, Wenhao Wang], Tianyu Chen, Sanchuan Chen, Yinqian Zhang, XiaoFeng Wang, Ten-Hwang Lai, Dongdai Lin. 2018 IEEE Symposium on Security and Privacy (S&P) (CCF-A, Co-first Author & Corresponding Author)
- iDASH secure genome analysis competition 2017. XiaoFeng Wang, Haixu Tang, Shuang Wang, Xiaoqian Jiang, Wenhao Wang, Diyue Bu, Lei Wang, Yicheng Jiang, Chenghong Wang. BMC Medical Genomics 2018

- Leaky Cauldron on the Dark Land: Understanding Memory Side-Channel Hazards in SGX. Wenhao Wang, Guoxing Chen, Xiaorui Pan, Yinqian Zhang, XiaoFeng Wang, Vincent Bindschaedler, Haixu Tang, Carl A. Gunter. ACM CCS 2017 (CCF-A, First Author)
- Binary Code Retrofitting and Hardening Using SGX. Shuai Wang, Wenhao Wang, Qinkun Bao, Pei Wang, XiaoFeng Wang, Dinghao Wu. 2nd Workshop on Forming an Ecosystem Around Software Transformation, 2017, co-located with CCS 2017.
- Searching Cubes for Testing Boolean Functions and Its Application to Trivium. Meicheng Liu, Dongdai Lin, **Wenhao Wang**. 2015 IEEE International Symposium on Information Theory. (IIE-B)

PROFESSIONAL SERVICES

- Reviewer for journals CyberSecurity, SCN, JNCA.
- Sub-reviewer for CCS (2018), NDSS (2017, 2018), S&P (2017), Usenix Security (2017, 2018), HPCA (2019), ESORICS (2018), AsiaCCS (2017, 2018, 2019) and RECOMB (2019) etc.
- TPC member for ACM CCS 2019.

AWARDS

- 2018 ACM SIGSAC China Rising Star Award, and ACM China Rising Star Nomination Award
- 2017 Young Star Award of Institute of Information Engineering, CAS

TALKS

- Confidential Computing, in Chinese. China Conference on Data Security and Privacy (ChinaPrivacy2019), Oct. 2019, Guilin
- Confidential Computing, in Chinese. Nankai University, July 2019, Tianjin
- Institute of Software, July 2019, Beijing
- Side Channel Risks in Hardware Trusted Execution Environments (TEEs). ACM TURC 2019 (SIGSAC), May 2019, Chengdu
- Leaky Cauldron on the Dark Land: Understanding Memory Side-Channel Hazards in SGX. ACM CCS 2017, Nov. 2017, Dallas