

Weikeng CHEN

PERSONAL

NOW: First-year Ph.D. Student in RISE Lab, UC Berkeley
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RESEARCH INTEREST

Building practical secure systems from secure multiparty computation (MPC) and other cryptographic primitives.

EDUCATION

2017- Ph.D. Student in SECURITY, EECS, UC Berkeley
Advisor: Prof. Raluca Ada Popa
Course: CS261, CS276, CS294-135, CS294-144
Tentative GPA: 4.00
2013-2017 Honor B.Eng in INFORMATION SECURITY, USTC, China
summa cum laude, Guomoruo Scholarship (total 33 in USTC)
National Information Security Scholarship (total 70 in China)
Advisor: Prof. Kaiping Xue
GPA: 3.99/4.30 (Rank 1 in ≈ 287)

RESEARCH INTERNSHIP

FEB-MAY 2017	Visiting Student Researcher at UC Berkeley Used garbled circuit and tree-based ORAM techniques to construct constant-round oblivious binary search; Analyzed the overlapping nature of tree-based ORAM for batch accesses; Designed a multi-server ORAM with 2x communication blowup.
JUNE-SEPT 2016	(Visiting) Research Assistant at Dalhousie University, Canada Used unsupervised learning to build a normal profiling system for botnet detection on CTU-13 dataset without relying on privacy-sensitive data.

SELECTED SCHOLARSHIPS, GRANTS, AND AWARDS

GRADUATE	EECS Fellowship Award (2017)
UNDERGRADUATE	Guomoruo Scholarship, total 33 in University (2016) National Cybersecurity Scholarship for Undergrads, total 70 in China (2016) USTC Undergraduate International Exchange Funding, total 10 in USTC (2016) Mitacs & CSC Research Intern Grant (2016), National Scholarship (2014) 1st Award in HPC Advisory Council RDMA Programming Competition (2014)

UNDERGRADUATE PUBLICATIONS

[IEEE TSC'17] TAFC: Time and Attribute Factors Combined Access Control for Time-Sensitive Data in Public Cloud. Jianan Hong, Kaiping Xue, Yingjie Xue, *Weikeng Chen*, David S. L. Wei, Nenghai Yu, Peilin Hong.

[IEEE IM AnNet'17] Exploring a Service-Based Normal Behaviour Profiling System for Botnet Detection. *Weikeng Chen*, Xiao Luo, A. Nur Zincir-Heywood.

[IEEE ICC'17] A Privacy-Preserving and Real-Time Traceable Power Request Scheme for Smart Grid.
Qingyou Yang, Jianan Hong, Kaiping Xue, *Weikeng Chen*, Xiang Zhang, Hao Yue.