

# Weikeng CHEN

## PERSONAL

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NOW: First-year Ph.D. Student in RISE Lab, UC Berkeley  
ADDRESS: 795 Soda Hall, Berkeley, CA 94704  
EMAIL: [weikeng@eecs.berkeley.edu](mailto:weikeng@eecs.berkeley.edu)  
GITHUB: <https://github.com/weikengchen/>

## RESEARCH INTEREST

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

## EDUCATION

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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  $\approx 287$  students)

## RESEARCH INTERNSHIP

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| FEB-MAY 2017   | Visiting Student Researcher at UC Berkeley<br>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<br>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

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

## UNDERGRADUATE PUBLICATIONS

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[IEEE TIFS'18] Combining Data Owner-side and Cloud-side Access Control for Encrypted Cloud Storage  
Kaiping Xue, *Weikeng Chen*, Wei Li, Jianan Hong, Peilin Hong.

[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.