

TAO WANG

Assistant Professor

Department of Computer Science and Engineering

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RESEARCH INTERESTS

- Security and privacy
- Anonymity networks
- Network traffic analysis
- Machine learning

EMPLOYMENT AND EDUCATION

JUL. 2016– Assistant Professor in the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,
Hong Kong University of Science and Technology

DEC. 2015 Ph. D. in COMPUTER SCIENCE, **University of Waterloo**
Advisor: Prof. Ian Goldberg

JAN. 2012 Master of Mathematics in COMPUTER SCIENCE, **University of Waterloo**

SEP. 2010 B. Sc. in PURE MATHEMATICS, **Hong Kong University of Science and Technology**

PUBLICATIONS

Zero-delay Defenses for Website Fingerprinting

J Gong¹, T Wang

Under shepherding for USENIX Security Symposium, 2020

High Precision Open-World Website Fingerprinting

T Wang

To appear in IEEE Symposium on Security and Privacy, 2020

A Multi-tab Website Fingerprinting Attack

Y Xu, T Wang, Q Li, Q Gong, Y Chen, Y Jiang

34th ACM Annual Computer Security Applications Conference, 2018

Walkie-Talkie: An Efficient Defense Against Passive Website Fingerprinting Attacks

T Wang and I Goldberg

26th USENIX Security Symposium, 2017

On Realistically Attacking Tor with Website Fingerprinting

T Wang and I Goldberg

Proceedings on Privacy Enhancing Technologies, 2016

¹ PhD candidate under T Wang's supervision.

A Systematic Approach to Developing and Evaluating Website Fingerprinting Defenses
X Cai, R Nithyanand, T Wang, R Johnson and I Goldberg
21st ACM Conference on Computer and Communications Security, 2014

Effective Attacks and Provable Defenses against Website Fingerprinting
T Wang, X Cai, R Nithyanand, R Johnson and I Goldberg
23rd USENIX Security Symposium, 2014

Improved Website Fingerprinting on Tor
T Wang and I Goldberg
12th ACM Workshop on Privacy in the Electronic Society, 2013

Congestion-Aware Path Selection in Tor
T Wang, K Bauer, C Forero and I Goldberg
16th International Conference on Financial Cryptography and Data Security, 2012

Under submission

Designing a Better Browser for Tor with BLAST
T Wang
Submitted to Network and Distributed Security Symposium, 2020

RESEARCH STUDENTS

Fei, QI 2017–present Master’s candidate
Jiajun, GONG 2017–present PhD candidate

PROJECTS AND GRANTS

Project Title	<i>Defending against Privacy-Intrusive Traffic Analysis Attacks</i>
Project Type	HKRGC Early Career Scheme
Funding	HKD 383,333
Duration	1-1-2019 — 31-12-2020
Role	Principal Investigator

COURSES

HKUST — COMP3632	Principles of Cybersecurity 3rd year elective course. Created and taught three times.
HKUST — COMP2711	Discrete Mathematical Tools for Computer Science 2nd year required course. Taught twice, currently teaching.

PROFESSIONAL SERVICE

2018–2019	Program Committee Member Program committee member for ACM Workshop on Privacy in the Electronic Society
2016–Present	Editorial Board Member Member of the Editorial Board for Proceedings on Privacy Enhancing Technologies
2015	Reviewer External reviewer for International Journal of Information Security External reviewer for Transactions on Dependable and Secure Computing