# Wuqi **Zhang**

# Also known as William Aaron Cheung Ph.D. Candidate in Computer Science and Engineering

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Room 3663, Academic Building, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong Room

I am currently a Ph.D. candidate supervised by professor Shing-Chi Cheung at The Hong Kong University of Science and Technology (HKUST) with a research focus: software engineering, especially in software testing and analysis. As a member of the CASTLE Research Group at HKUST, it is very nice to work with a professional and very kind professor, as well as a group of innovative researchers.

# **EDUCATION**

Ph.D. in Computer Science and Engineering 2019 - Present

CGA: 3.933/4.3

The Hong Kong University of Science and Technology, Hong Kong.

2015 - 2019 B.Eng. in Computer Science and Technology

GPA: 4.2149/5 (Rank: 1/250), Outstanding Graduates

Northeastern University, China

# Research Interests

Software Engineering, Software Testing, Program Analysis RESEARCH FOCUS APPLICATION TO Blockchain, Smart Contracts, Decentralized Applications OTHER INTERESTS Web Fingerprinting, Deep Learning System Testing

# Publications

[Conditionally Accepted] Surakay: Generating Realistic Traces for a Strong Website Fingerprinting De-

fense

Conference Jiajun Gong, Wuqi Zhang, Charles Zhang, Tao Wang

In Proceedings of the 43rd IEEE Symposium on Security and Privacy (IEEE S&P 2022), May 23-26, 2022, San

Francisco, United States.

Fast Test Input Generation for Finding Deviated Behaviors in Compressed Deep Neural Network 2021

Yongqiang Tian, Wuqi Zhang, Ming Wen, Shing-Chi Cheung, Chengnian Sun, Shiqing Ma, Yu Jiang Preprint

WFDefProxy: Modularly Implementing and Empirically Evaluating Website Fingerprinting Defenses 2021

Jiajun Gong, Wuqi Zhang, Charles Zhang, Tao Wang Preprint

arXiv:2111.12629

ĐArcher: Detecting On-Chain-Off-Chain Synchronization Bugs In Decentralized Applications 2021

Conference Wuqi Zhang, Lili Wei, Shuqing Li, Yepang Liu, Shing-Chi Cheung

> In Proceedings of the 29th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '21), August 23-28, 2021, Athens, Greece.

2021 Characterizing Transaction-Reverting Statements in Ethereum Smart Contracts

Lu Liu, Lili Wei, Wuqi Zhang, Ming Wen, Yepang Liu, Shing-Chi Cheung Conference

In Proceedings of the 34th IEEE/ACM International Conference on Automated Software Engineering (ASE

'21), November 14-20, 2021, Melbourne, Australia.

2018 Exploration on the Reform of Laboratory Integrated Management System in Colleges and Universities

Wuqi Zhang, Xingyu Wang, Yi Sha, Lili Zhang Journal

Research and Exploration in Laboratory, 2018, 37(11): 149-152.

# 🏆 Awards

Postgraduate Studentship 2019

The Hong Kong University of Science and Technology

2019 **Outstanding Graduates of Liaoning Province** 

	Department of Education of Liaoning, China
2018	Second-class University Scholarship
	Northeastern University, China
2018	Excellent Student Award
	Northeastern University, China
2017	National Scholarship
	Ministry of Education of the People's Republic of China
2017	First-class University Scholarship
	Northeastern University, China
2017	Pacemaker to Excellent Student Award
	Northeastern University, China
2016	National Scholarship
	Ministry of Education of the People's Republic of China
2016	First-class University Scholarship
	Northeastern University, China
2016	Pacemaker to Excellent Student Award
	Northeastern University China

# TEACHING

2021-2022 Fall Teaching Assistant for COMP3021 Java Programming, HKUST 2020-2021 Spring Teaching Assistant for COMP5111 Fundamentals of Software Analysis, HKUST Teaching Assistant for COMP3021 Java Programming, HKUST 2020-2021 Fall

# VISITING EXPERIENCE

# Research

### The Hong Kong University of Science and Technology, Hong Kong, China

2019

> Topic : Vulnerability Detection in Ethereum Smart Contracts

- > Adviser: Professor Shing-Chi Cheung
- > March, 2019 May, 2019

Research Internship

## Research

## North Carolina State University, NORTH CAROLINA, U.S.A.

2018

> Topic: Multiple Peaks Phenomenon in Non-Markovian Epidemics on Multilayer Networks

- > Adviser: Professor Huaiyu Dai
- > July, 2018 August, 2018

Summer Research Program



## **M** Work Experience

## Engineering 2020-2021

### Hong Kong Applied Science and Technology Research Institute (ASTRI), Hong Kong, China

This is a joint project between ASTRI and Crypto-FinTech Lab of HKUST to develop the next-generation distributed file system based on blockchain and distributed computing technologies.

> October 2020 - June 2021
Blockchain FinTech Smart Contracts

#### Engineering 2018-2019

#### Shenyang Wuzhi Technology Co., Ltd., LIAONING, China

The company was funded by alumni of Northeastern University. The work in this company was to develop the back-end server of the mobile application that automatically translates sign language to Chinese.

> October 2018 - January 2019 RESTful Service | Sever-side Development

#### Engineering 2015-2019

### Publicity Department of Northeastern University, LIAONING, China

The work is to continuously maintain various University websites as one of the technical leaders in the student association.

> October 2015 - June 2019 Web Development | RESTful Service