

Wuqi ZHANG

Ph.D. Candidate in Computer Science and Engineering

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I am currently a Ph.D. candidate supervised by professor Shing-Chi Cheung in The Hong Kong University of Science and Technology (HKUST) with research focus : software engineering, especially in software testing and analysis. As a member of 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

2015 - 2019	B.Eng. in Computer Science and Technology GPA : 4.2149/5 (Rank : 1/250), Outstanding Graduates Northeastern University, China
2019 - Present	Ph.D. in Computer Science and Engineering CGA : 3.933/4.3 The Hong Kong University of Science and Technology, Hong Kong.

RESEARCH INTERESTS

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

PUBLICATIONS

2021 Conference	DArcher : Detecting On-Chain-Off-Chain Synchronization Bugs In Decentralized Applications 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 Conference	Characterizing Transaction-Reverting Statements in Ethereum Smart Contracts Lu Liu, Lili Wei, Wuqi Zhang, Ming Wen, Yepang Liu, Shing-Chi Cheung In Proceedings of the 34th IEEE/ACM International Conference on Automated Software Engineering (ASE '21), November 14-20, 2021, Melbourne, Australia.
2018 Journal	Exploration on the Reform of Laboratory Integrated Management System in Colleges and Universities Wuqi Zhang, Xingyu Wang, Yi Sha, Lili Zhang Research and Exploration in Laboratory, 2018, 37(11) : 149-152.

AWARDS

2019	Postgraduate Studentship 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
2020-2021 Fall	Teaching Assistant for COMP3021 Java Programming, HKUST

VISITING EXPERIENCE

Research 2018	North Carolina State University, NORTH CAROLINA, U.S.A. <ul style="list-style-type: none">> Topic : Multiple Peaks Phenomenon in Non-Markovian Epidemics on Multilayer Networks> Adviser : Professor Huaiyu Dai> July, 2018 - August, 2018 <div>Summer Research Program</div>
Research 2019	The Hong Kong University of Science and Technology, HONG KONG, China <ul style="list-style-type: none">> Topic : Vulnerability Detection in Ethereum Smart Contracts> Adviser : Professor Shing-Chi Cheung> March, 2019 - May, 2019 <div>Research Internship</div>

WORK EXPERIENCE

Engineering 2020-2021	Hong Kong Applied Science and Technology Research Institute (ASTRI), HONG KONG, China <p>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.</p> <ul style="list-style-type: none">> October, 2020 - June, 2021 <div>Blockchain FinTech Smart Contracts</div>
Engineering 2018-2019	Shenyang Wuzhi Technology Co., Ltd., LIAONING, China <p>The company was funded by alumni of Northeastern University. The work in this company was to develop the back-end server of mobile application that automatically translates sign language to Chinese.</p> <ul style="list-style-type: none">> October, 2018 - January, 2019 <div>RESTful Service Sever-side Development</div>
Engineering 2015-2019	Publicity Department of Northeastern University, LIAONING, China <p>The work is to continuously maintain various University websites as one of the technical leaders in the student association.</p> <ul style="list-style-type: none">> October, 2015 - June, 2019 <div>Web Development RESTful Service</div>