

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 '19), 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>