

Wuqi ZHANG

Also known as William Aaron Cheung

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 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

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

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

📄 PUBLICATIONS

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| 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

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| 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
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 style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Research Internship</div> |
| 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 style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Summer Research Program</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 style="display: flex; gap: 5px;"> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Blockchain</div> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">FinTech</div> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Smart Contracts</div> </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 the mobile application that automatically translates sign language to Chinese.</p> <ul style="list-style-type: none"> > October 2018 - January 2019 <div style="display: flex; gap: 5px;"> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">RESTful Service</div> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Sever-side Development</div> </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 style="display: flex; gap: 5px;"> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Web Development</div> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">RESTful Service</div> </div> |