

RESUME

Ms. ZHONG Yuyi Ph.D. candidate in National University of Singapore

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Office Address: Programming Language & Software Engineering Research Lab, COM3, Level 2
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EDUCATION

• **National University of Singapore, Singapore**

Aug 2018 - Now

Degree to be obtained: Doctor of Philosophy

Faculty: School of Computing

Major: Computer Science

Supervisor: Associate Professor Siau-Cheng Khoo

• **Huazhong University of Science and Technology, China**

Sep 2014 - Jun 2018

Degree: Bachelor of Engineering in Computer Science

Major: Computer Science and Technology

RESEARCH INTERESTS

Neural network analysis; robustness verification

RESEARCH EXPERIENCE

The Asian Symposium on Programming Languages and Systems

Oct 2021

2021 (APLAS' 21), virtual

Paper presentation and conference attendance

Topic: Scalable and Modular Robustness Analysis of Deep Neural Networks

Presenter: Yuyi Zhong

• **The Asian Symposium on Programming Languages and Systems**

Dec 2019

2019 (APLAS' 19), Bali, Indonesia

Poster presentation and conference attendance

Topic: Image segmentation and transformation by examples

Presenter: Yuyi Zhong

• **ACM SIGPLAN Conference on Programming Language Design
and Implementation 2019 (PLDI' 19), Phoenix, USA**

Jun 2019

Conference and workshop: PLMW@ PLDI' 19 and PLDI' 19

To broaden the exposure to research in programming language

• **National University of Singapore, Singapore**

Jan 2018 – May 2018

Final Year Project Internship

Topic: Multi-Extract Method Refactoring Recommendation

Supervisor: Associate Professor Siau-Cheng Khoo

• **Huazhong University of Science and Technology**

Mar 2017 – Jun 2018

Topic: For software security, conducted software error detection and vulnerability exploiting research;

Instructor: Professor Zou Deqing

PUBLICATIONS

1. ARENA: Enhancing Abstract Refinement for Neural Network Verification

(Yuvi Zhong, Quang-Trung Ta, Siau-Cheng Khoo)

The 24th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2023)

2. ARENA: Enhancing Abstract Refinement for Neural Network Verification (Poster)

(Yuvi Zhong, Quang-Trung Ta, Siau-Cheng Khoo)

Poster in the ACM Student Research Competition at SPLASH 2022 (ACM SRC 2022)

3. Scalable and Modular Robustness Analysis of Deep Neural Networks

(Yuvi Zhong, Quang-Trung Ta, Tianzuo Luo, Fanlong Zhang, Siau-Cheng Khoo)

The 19th Asian Symposium on Programming Languages and Systems (APLAS 2021)

4. Image Segmentation and Transformation by Examples (Poster)

(Yuvi Zhong, Quang-Trung Ta, Wee-Kheng Leow, Siau-Cheng Khoo)

Poster in the 17th Asian Symposium on Programming Languages and Systems (APLAS 2019)

5. SCVD: A New Semantics-Based Approach for Cloned Vulnerable Code Detection

(Deqing Zou, Hanchao Qi, Zhen Li, Song Wu, Hai Jin, Guozhong Sun, Sujuan Wang, Yuvi Zhong)

The 14th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment (DIMVA 2017)

6. VulDeePecker: A Deep Learning-Based System for Vulnerability Detection

(Zhen Li, Deqing Zou, Shouhuai Xu, Xinyu Ou, Hai Jin, Sujuan Wang, Zhijun Deng, Yuvi Zhong)

The 25th Annual Network and Distributed System Security Symposium (NDSS 2018)

ONGOING PROJECTS

Optimization and reduction based network verification on GPU

Collaboration with Ruiwei Wang

TEACHING WORK

1. CS3219, Software Engineering Principles and Patterns, NUS, 2020

Teaching assistant and assignment grader

2. CS1010J, Programming Methodology, Java language, NUS, 2020

Examination grader

3. CS1010E, Programming Methodology, Python language, NUS, 2019-2021

Examination grader

AWARDS & SCHOLARSHIP

Excellent Student Leader

University Level

2015-2016 Academic Year

Excellent Student Scholarship

University Level

2016-2017 Academic Year