

## RESUME

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

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## EDUCATION

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• **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

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Neural network analysis; robustness verification

## RESEARCH EXPERIENCE

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**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** Jun 2019  
**and Implementation 2019 (PLDI' 19), Phoenix, USA**

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**

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### **1. 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)

### **2. 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)

### **3. 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)

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

### **4. 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)

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

## **Work Under Submission**

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### **1. ARENA: Enhancing Abstract Refinement for Neural Network Verification**

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

Submitted to 29th Static Analysis Symposium (SAS 2022)

## **Teaching Work**

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### **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**

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Excellent Student Leader

University Level

2015-2016 Academic Year

Excellent Student Scholarship

University Level

2016-2017 Academic Year