

# Yuhao Zhang

University of Wisconsin at Madison, Madison 53706, United States  
yuhaoz@cs.wisc.edu

EDUCATION	<b>University of Wisconsin-Madison</b> , Madison, United States	
	▪ Pursuing PhD in Computer Science	Sept. 2019 – Present
	<b>Peking University</b> , Beijing, China	
	▪ B.S. in Computer Science	Sept. 2015 – July 2019
RESEARCH EXPERIENCE	<b>madPL Group</b> , University of Wisconsin-Madison	
	▪ Research Assistant	Aug. 2019 – Present
	• Project: Verifying and Achieving Robustness of Neural Network Models over Sequences	
	• Supervisors: Prof. Loris D’Antoni and Prof. Aws Albarghouthi	
	<b>System Lab, Software Engineering Institute</b> , Peking University	
	▪ Undergraduate Research Assistant	Mar. 2017 – July 2019
	• Project: An Empirical Study on TensorFlow Program Bugs, Detecting Numerical Bugs in TensorFlow Programs	
	• Supervisor: Prof. Yingfei Xiong	
	<b>Software Analytics Group</b> , Microsoft Research Asia	
	▪ Research Intern	Sept. 2018 – Mar. 2019
	• Project: Ideas in Excel	
	• Supervisors: Lead Researcher Han Shi and Associate Researcher II Xiao Lv	
	<b>Automated Software Engineering Group</b> , University of Illinois Urbana-Champaign	
	▪ Summer Research Intern	July 2018 – Sept. 2018
	• Project: Test Coverage Study	
	• Supervisors: Prof. Tao Xie	
PUBLICATIONS	▪ Yuhao Zhang, Aws Albarghouthi, Loris D’Antoni, “Robustness to Programmable String Transformations via Augmented Abstract Training” on arXiv, Feb. 2020.	
	▪ Siwakorn Srisakaokul, Yuhao Zhang, Zexuan Zhong, Wei Yang, and Tao Xie, “MULDEF: Multi-model-based Defense Against Adversarial Examples for Neural Networks” on arXiv, Aug. 2018.	
	▪ Yuhao Zhang, Yifan Chen, Shing-Chi Cheung, Yingfei Xiong, and Lu Zhang, “An empirical study on TensorFlow program bugs” in <i>Proceedings of the 27th ACM SIGSOFT International Symposium on Software Testing and Analysis, ISSTA</i> , Amsterdam, The Netherlands, July 2018.	
PROJECTS & EXPERIENCE	<b>Selected Coursework Projects</b> , School of Electronic Engineering and Computer Science (EECS) Peking University	
	▪ Computer Network Lab, <b>A Review Bot for Taobao</b>	Feb. 2018 – June 2018
	• A review bot for automatically generating good reviews in Taobao.	
	▪ Compiler Lab, <b>A Safe Memory-leak Fixing For C Programs</b>	Feb. 2017 – June 2017
	• A tool for automatically detecting and fixing memory leaking in C programs.	
	▪ Software Analysis, <b>Parallel Detection in C for OpenACC</b>	Sept. 2016 – Jan. 2017
	• A tool for automatically inserting OpenACC statements into C codes for parallel acceleration.	
	<b>Extra Curricular Projects</b> , Peking University	
	▪ Project: Peking University Course Scheduling System	Sept. 2017 – Mar. 2018
	• To arrange the schedule for all courses in Peking University.	
	▪ Project: PKURUNNER	Apr. 2016 – Jan. 2018
	• An application to record running distances of students (Thousands of students are using it).	
	<b>Teaching Assistant</b> , Peking University	
	▪ Algorithm Design and Analysis	Feb. 2018 – June 2018
AWARDS & SCHOLARSHIPS	▪ Top 10 undergraduate thesis, EECS Department, Peking University	June 2019
	▪ Award of Excellence, Microsoft Research Asia	Mar. 2019

▪ SenseTime Scholarship, SenseTime	Jan. 2019
▪ Suzhou Industrial Park Scholarship, Peking University	2018
▪ Fourth Place, ACM-ICPC, Ho Chi Ming City Regional, Vietnam	Dec. 2017
▪ Gold, ACM-ICPC, Xian Regional, China	Oct. 2017
▪ Schlumberger Scholarship, EECS Department, Peking University	2017
▪ Gold, ACM-ICPC, China-Final, China	Dec. 2016
▪ Seventh Place, ACM-ICPC, Yangon Regional, Myanmar	Dec. 2016
▪ Gold, ACM-ICPC, Dalian Regional, China	Oct. 2016
▪ iPinYou Scholarship, EECS Department, Peking University	2016
▪ Gold, ACM-ICPC, Hefei Regional, China	Oct. 2015
▪ Gold, the National Olympiad of Informatics, China	Aug. 2014