

# Yuhao Zhang

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EDUCATION	<b>University of Wisconsin-Madison</b> , Madison, The U.S.	
	▪ Pursuing PhD in Computer Science	Sept. 2019 – Present
	<b>Peking University</b> , Beijing, China	
	▪ B.S. in Computer Science	Sept. 2015 – July 2019
	• Top Notch Class: target at innovative students for research	
	• Cumulative GPA: 3.67 / 4.00	
RESEARCH EXPERIENCE	<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>System Lab, Software Engineering Institute</b> , Peking University	
	▪ Undergraduate Research Student	Mar. 2017 – Present
	• Project: An Empirical Study on TensorFlow Program Bugs, Detecting Numerical Bugs in TensorFlow Programs	
	• Supervisors: Prof. Yingfei Xiong and Prof. Shing-Chi (S.C.) Cheung	
	<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, 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>Coursework Projects</b> , School of Electronic Engineering and Computer Science (EECS) Peking University	
	▪ Compiler Lab, <b>A Safe Memory-leak Fixing For C Programs</b>	Feb. 2017 – June 2017
	• To automatically detect and fix memory leaking in C programs.	
	▪ Software Analysis, <b>Parallel Detection in C for OpenACC</b>	Sept. 2016 – Jan. 2017
	• To automatically add 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 automatically.	
	▪ Project: PKURUNNER	Apr. 2016 – Jan. 2018
	• An application to record running distances of students (Thousands of PKU students are using it).	
AWARDS & SCHOLARSHIPS	<b>Teaching Assistant</b> , Peking University	
	▪ Algorithm Design and Analysis	Feb. 2018 – June 2018
	▪ 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
	• For outstanding performance in the academic year of 2017-2018.	
	▪ Merit Student, Peking University	2018
	• For outstanding performance in the academic year of 2017-2018.	
	▪ 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
	• For outstanding performance in the academic year of 2016-2017.	

- Merit Student, Peking University 2017
  - For outstanding performance in the academic year of 2016-2017.
- 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
  - For outstanding performance in the academic year of 2015-2016.
- Award for Scientific Research, Peking University 2016
  - For outstanding performance in the academic year of 2015-2016.
- Gold, ACM-ICPC, Hefei Regional, China Oct. 2015

## LANGUAGES

- Chinese: Native language.
- English: Fluent.
  - TOEFL: 107 (R30 + L30 + S22 + W25).
  - GRE: Verbal 157 + Quantitative 170 + Writing 4.0

## SKILLS

C, C++, C#, Python, Java, Scheme, Ocaml,  $\LaTeX$