YUE YAO

Education	
Carnegie Mellon University (CMU), PA, US	SEP. 2018 - DEC. 2019
M.S. in Computer Science, School of Computer Science, GPA: First Semester	
Shanghai Jiao Tong University (SJTU), Shanghai, China	Sep. 2014 - Aug. 2018
University of Michigan - Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)	
B.S. in Electrical and Computer Engineering, Overall GPA: 3.70 / 4.0, Rank: 8 / 97	
Case Western Reserve University (CWRU), Cleveland, USA	Spring 2017
Exchange student in EECS department, Semester GPA: 4.0 / 4.0	
Courses: Database, Programming Language Concepts, Theoretical C.S., Software Eng	gineering

PUBLICATIONS

Z. Zhou, Y. Yao, S. Huang, S. Su, C. Meng and W. Qian, "DALS: Delay-driven Approximate Logic Synthesis" in 2018 International Conference on Computer Aided Design, 2018. To appear.

Y. Yao, S. Huang, C. Wang, Y. Wu and W. Qian, "Approximate Disjoint Bi-decomposition and Its Application to Approximate Logic Synthesis" in 2017 IEEE 35th International Conference on Computer Design, 2017.

RESEARCH EXPERIENCES

<i>Current</i> MAY 2016	Research Assistant, EMERGING COMPUTING TECHNOLOGY LABORATORY, SJTU Research on disjoint bi-decomposition based approximate logic synthesis algorithms
WAT 2010	 Proposed to approximate Boolean functions with Maximal Disjoint Bi-Decomposable (MDBD) functions. Hence designed efficient algorithms to obtain such approximation. Obtained a 30 times speed up by incorporating a pre-computing technique. Designed an approximate logical synthesis flow based on MDBD approximations. It performs 70% better in known difficult circuit than existing algorithm (MCNC benchmarks). Published a first-authored full length paper at ICCD'17, Boston Area, Massachusetts, USA. Poster session presenter in Student Research Competition session at 36th International Conference on Computer Aided Design 2017 (3 undergraduates globally), Irvine, California, USA.
Jul 2017 Sep 2016	Research on image processing and recognition, INNOVATIVE PRACTICE PROGRAM, SJTU Built a web-app to extract digits from a credit card photo
	 Applied Hough transformation to locate edges of a credit inside an image. Trained a Convolutional Neural Network that recognizes digits with 95% accuracy. Achieved an overall success rate of 90% in daily context. Deployed Django (Python) based back-end to Amazon Elastic Beanstalk.
Related P	ROJECTS
SPR 2017	 Object-oriented language interpreter in Scheme (Programming language concepts), CWRU Supported object oriented features including classes, inheritance, polymorphism. Supported first-class functions, closures, and overloads. Language is strongly typed.
SU 2017	 Utilized continuations to manage control flow (break, continue and exceptions). Online C/C++ auto-grading web application for computer science courses, UM-SJTU JI Coded in Python with Django. Built secure process container through cgroup and seccomp. Fulfilled continuous integration and delivery through git, Jenkins and Docker. System served over a hundred students till now without any failure or breach.
SERVICES	system served over a number stadents till new without any fanare of oreach.
Undergrad	duate Teaching Assistant since 2016 Fall, served over 500 students in UM-SJTU JI
MAY 2017	INTRO. TO OPERATING SYSTEMS Supervised servers, rewrote course projects. Awarded Annual Outstanding Teaching Assistant from UM-SJTU JI.
Honors &	z Awards
Nov. 2017	John Wu & Jane Sun Merit Scholarship (\$2800, 5 students in the institute)
LANG Computer	GUAGES Chinese: Mother tongue; English: Fluent, TOEFL IBT 111 (Speaking 28) GRE 327 + 3.5 (Verbal 157, Quantitative 170, Academic writing 3.5) Languages: C/C++, Python, Verilog HDL, PHP, SQL, Scheme, shell script, Haskell, ETEX, Technology: Unix, version control with git, CI/CD with Jenkins, Docker