Hanyu Wang

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EDUCATION

University of Michigan-Shanghai Jiao Tong University Joint Institute Shanghai, China
Senior student, major in Electrical and Computer Engineering Sep 2017 - Aug 2021
GPA: 3.78/4.00 Ranking: 11/162

University of Wisconsin Madison Wisconsin, USA
Exchange student in Engineering Department Jan 2020 - May 2020
GPA: 4.00/4.00

Technical University of Berlin Berlin, Germany
Exchange student in Language Program Dec 2018 - Feb 2019
Grade: A+

ACADEMIC RESEARCH

Distilling Arbitration Logic from Traces Using Machine Learning: A Case Study on NoC
Instructor: Dr. Zhiru Zhang, Cornell University May 2020 - Nov 2020
- ❖ Worked on Machine Learning-Driven Synthesis and ranked 3rd in IWLS2020 contest.
- ❖ Proposed a novel methodology to automatically build the arbitration logic from simulation traces.

FPGA Delay Reduction by Fanout Optimization
Instructor: Dr. Weikang Qian, Shanghai Jiao Tong University Apr 2020- Present
- ❖ Developed a stand-alone fanout optimization workflow after technology mapping.
- ❖ Reduced total fanouts on the critical path by 15% without hurting area and delay of the circuit.

Effective Logic Optimization Using Stochastic Algorithms
Instructor: Dr. Weikang Qian, Shanghai Jiao Tong University Jun 2019 - Present
- ❖ Improved the state-of-the-art circuit optimization algorithm using stochastic algorithms.
- ❖ Reduced the average circuit area by 10% on EPFL benchmarks.

EXTRACURRICULAR EXPERIENCE

Student Science Technology and Innovation Association, President Aug 2018 - Jul 2020
- ❖ Held 2020 Midea Refrigerator Innovation Competition with a 250,000 RMB budget.
- ❖ Organized 11th Mechanics Competition of Shanghai Jiao Tong University with about 300 participants.

Teaching Assistant, Vp160 Honors Physics I & Vp260 Honors Physics II May 2019 - Dec 2019
- ❖ Graded assignments and exams, prepared recitation classes, and held office hours.

Hackathon Shanghai Jul 2019
- ❖ Implemented a knowledge management system based on Natural Language Processing.

Hackathon Shanghai Jul 2018
- ❖ Deployed an outfit matching website using image classification with Deep Neural Networks.

Beijing FOUNDER Electronics Co. Ltd, Testing Department, Intern Dec 2017 - Feb 2018
- ❖ Wrote testing scripts for font designs and created a font based on my handwriting.

HONORS & AWARDS

Scholarships
Sam and Daisy Wu Scholarship (1 out of 162) Nov 2020
John Wu & Jane Sun Excellence Scholarship Sep 2019
Yu Liming Scholarship (6 out of 325) Nov 2018
Undergraduate Excellence Scholarship Nov 2018
Competitions
Bronze Medal in the University Physics Competition Nov 2019
2nd Class Award in Lanqiao Programming Competition Mar 2019
2nd Class Award in National Olympiad of Information Province Nov 2016
2nd Class Award in Chinese Physics Olympiad Sep 2016

SKILLS & CERTIFICATIONS

Programming: Proficient in C++ / C / Python / Matlab / Mathematica / Latex / Verilog HDL
GRE: 325 (V:155+Q:170+AW:4.0), **My Best TOEFL**: 109 (R:30+L:25+S:27+W:27)