YUZHE MA

Ph.D. Student & Department of Computer Science & Engineering Room 913, Ho Sin Hang Engineering Building & The Chinese University of Hong Kong yzma@cse.cuhk.edu.hk

RESEARCH INTERESTS

- Design for manufacturability
- Machine learning with applications in CAD
- Physical design in VLSI CAD

EDUCATION

The Chinese University of Hong Kong, NT, Hong Kong
Ph.D. student, Department of Computer Science & Engineering.
Advisor: Prof. Bei Yu

Sun Yat-sen University, Guangzhou, P.R. China
B.Eng., Microelectronics.

Aug. 2016 – Present
Sep. 2011 – Jul. 2016

(GPA 92/100, RANK 1/64)

Dissertation: "A Standard Cell Layout Migration Technique"

EXPERIENCE

Cadence Design Systems, Inc., CA, USA

May 2017 – Sep. 2017

Research Intern

Topic: Deep Learning/Machine Learning in Placement

The Chinese University of Hong Kong, NT, Hong Kong

Mar. 2016 – May 2016

Research Assistant, Department of Computer Science & Engineering

Topic: Standard Cell Synthesis

PUBLICATIONS

Conference Papers

- [C3] Yuzhe Ma, Jhih-Rong Gao, Jian Kuang, Jin Miao and Bei Yu, "A Unified Framework for Simultaneous Layout Decomposition and Mask Optimization", IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Irvine, CA, Nov. 13–16, 2017.
- [C2] Yuzhe Ma, Xuan Zeng and Bei Yu, "Methodologies for Layout Decomposition and Mask Optimization: A Systematic Review", IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC), Abu Dhabi, UAE, Oct. 23–25, 2017. (Invited Paper)
- [C1] Subhendu Roy, Yuzhe Ma, Jin Miao and Bei Yu, "A Learning Bridge from Architectural Synthesis to Physical Design for Exploring Power Efficient High-Performance Adders", IEEE/ACM International Symposium on Low Power Electronics and Design (ISLPED), Taipei, Taiwan, July 24–26, 2017.

SELECTED AWARDS AND HONORS

Full Postgraduate Studentship	The Chinese University of Hong Kong	2016 -
National Encouragement Scholarship	Sun Yat-sen University	2013 - 2015
First Class Outstanding Academic Scholarship	Sun Yat-sen University	2013 - 2015
Merit Student of Sun Yat-sen University	Sun Yat-sen University	2013 - 2015

GRADUATE LEVEL COURSES

Foundations of Optimization, Data Mining, Numerical Optimization.

TECHNICAL SKILLS

Languages C/C++, Python, MATLAB, LATEX

Operating Systems Linux/UNIX, MacOS

Toolkits TensorFlow