## Guojin Chen

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Research

I am interested in Machine Learning, EDA, VLSI design. My current focuses include:

INTERESTS

- Machine Learning in VLSI Design.
- Reinforcement learning, computer vision.

**EDUCATION** 

The Chinese University of Hong Kong

Hong Kong Aug 2021 - Present

Ph.D. in Computer Science • Advisor: Prof. Bei Yu

The Chinese University of Hong Kong

Hong Kong

M.Sc. in Computer Science

Sep 2019 - Nov 2020

• Advisor: Prof. Bei Yu

Huazhong University of Science and Technology

**Bachelor of Computer Science** 

Sep 2015 - Jun 2019

Wuhan, China

RELEVENT WORKING EXPERIENCE Tencent Technology Co.Ltd.

Research Intern

SHENZHEN, China May 2018 - Nov 2018

**AWARDS** 

Scholarship

• Distinguished Academic Performance Scholarship, CUHK.

May 2020 Nov 2016

• National Encouragement Scholarship, HUST, Ministry of Education, PRC • First Class Scholarship, HUST, the highest scholarship in HUST.

2018, 2019

Internship

• First Prize, Tencent SNG Hack Week.

Iun 2019

• Excellent Intern, Tencent.

Sep 2019

**PROJECTS** 

DAMO: Towards High Accuracy DL-Based OPC With Deep Lithography Simulator. This paper present a novel method for Deep Learning based OPC which results surpass the famous OPC tool Mentor Calibre. The manuscript was accepted by ICCAD2020.

**CUDA-OPC**: This is a CUDA acceleration project that aims to improve the ILT computation efficiency, it speeds up the lithography process nearly 40 times than before.

**SKILLS** 

**Programming** C/C++, Python, Ruby, Matlab, LATeX, Bash, Javascript, Rust, Java Machine Learning Skilled in Pytorch, Tensorflow, and CUDA programming. Tools Vim, Git, macOS, Linux

**TALKS** 

- 1. CUDA based Convolution and FFT on OPC. CUDA Group Presentation., CUHK. Mar 2020
- 2. DLS-DMO: High Accuracy DL-Based OPC With DLS. CUDA Group Presentation., CUHK. May 2020

## **PUBLICATIONS**

- [1] W. Li, G. Chen, H. Yang, R. Chen, and B. Yu, "Learning point clouds in eda. (Invited Paper)," in ACM International Symposium on Physical Design, (ISPD '21), Mar. 2021.
- [2] Z. Yu, G. Chen, Y. Ma, and B. Yu, "A gpu-enabled level set method for mask optimization," in IEEE/ACM Proceedings Design, Automation and Test in Europe, (DATE '21), Nov. 2020.
- [3] G. Chen, W. Chen, Y. Ma, H. Yang, and B. Yu, "DAMO: Deep agile mask optimization for full chip scale," in Proceedings of the 39th International Conference on Computer-Aided Design, (ICCAD '20), Nov. 2020, pp. 1-9.