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# Goujin Chen(陈国晋)

## Research Interests

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

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

## Education

**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** — Wuhan, China
**Bachelor of Computer Science** — *Sep 2015 – Jun 2019*

## Relevent Working Experience

**Smartmore Co.Ltd.** — SHENZHEN, China
**Research Intern** — *Nov 2020 – Jan 2021*

**Tencent Technology Co.Ltd.** — SHENZHEN, China
**Research Intern** — *May 2018 – Nov 2018*

## Awards

**Scholarship**
- Distinguished Academic Performance Scholarship, CUHK. *May 2020*
- National Encouragement Scholarship, HUST, Ministry of Education, PRC *Nov 2016*
- First Class Scholarship, HUST, the highest scholarship in HUST. *2018, 2019*

**Internship**
- First Prize, Tencent SNG Hack Week. *Jun 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

## Publications

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*