

# Guojin Chen

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## Education

Ph.D. in Computer Science, <i>The Chinese University of Hong Kong</i>	2021 – Present
M.S. in Computer Science, <i>The Chinese University of Hong Kong</i>	2019 – 2020
B.S. in Computer Science, <i>Huazhong University of Science and Technology</i>	2015 – 2019

## Publications [Google Scholar; 45+ citations, h-index: 3+]

Representative publications that I am a primary author on are highlighted.

2023.....

- [C9] *Physics-Informed Optical Kernel Regression Using Complex-valued Neural Fields*  
**Guojin Chen**, Zehua Pei, Haoyu Yang, Yuzhe Ma, Bei Yu, and Martin Wong  
DAC 2023
- [C8] *DiffPattern: Layout Pattern Generation via Discrete Diffusion*  
Zixiao Wang, Yunheng Shen, Wenqian Zhao, Yang Bai, **Guojin Chen**, Farzan Farnia, and Bei Yu  
DAC 2023
- [C7] *A GPU-accelerated Matrix Cover Algorithm for Multiple Patterning Layout Decomposition*  
**Guojin Chen**, Haoyu Yang, and Bei Yu  
SPIE 2023

2022.....

- [C6] *Efficient Point Cloud Analysis Using Hilbert Curve*.  
Wanli Chen, Xinge Zhu, **Guojin Chen**, and Bei Yu  
ECCV 2022
- [C5] *AdaOPC: A Self-Adaptive Mask Optimization Framework For Real Design Patterns*  
Wenqian Zhao, Xufeng Yao, Ziyang Yu, **Guojin Chen**, Yuzhe Ma, Bei Yu, and Martin Wong  
ICCAD 2022

2021.....

- [C4] *DevelSet: Deep Neural Level Set for Instant Mask optimization*  
**Guojin Chen**, Ziyang Yu, Hongduo Liu, Yuzhe Ma, and Bei Yu  
ICCAD 2021
- [C3] *Learning Point Clouds in EDA*. (Invited Paper)  
Wei Li, **Guojin Chen**, Haoyu Yang, Ran Chen, and Bei Yu  
ISPD 2021

2020.....

- [C2] *DAMO: Deep Agile Mask Optimization for Full Chip Scale*  
**Guojin Chen**, Wanli Chen, Yuzhe Ma, Haoyu Yang, and Bei Yu  
ICCAD 2020
- [C1] *A GPU-enabled Level Set Method for Mask Optimization*  
Ziyang Yu, **Guojin Chen**, Yuzhe Ma, and Bei Yu  
DATE 2020

## Teaching

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Python Computing (AIST 1110), TA	F2022
Mobile Computing (CSCI 3310), TA	S2022
Numerical Optimization (AIST 3010), TA	F2021

## Skills

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Programming	C, C++, CUDA, Python, CMake, Golang
Frameworks	JAX, NumPy, Pandas, PyTorch, SciPy
Toolbox	Linux, vim, evil, org, mu4e, xmonad, git, tmux, zsh