

Chen Chen

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Education

Ph.D. in Microelectronics, *Hong Kong University of Science and Technology (Guangzhou)* 2022 – present
Advisor: [Hongce Zhang](#)

M.S. in Electronic Engineering, *The Hong Kong University of Science and Technology*

B.S. in Electronic Information Technology, *Macau University of Science and Technology*

Experiences

Visiting Scholar, *University of Maryland, College Park* (with [Prof. Cunxi Yu](#) on logic synthesis and ML for formal verification) 2024.09-2025.06

Independent Study and Research, *The Hong Kong University of Science and Technology* (with [Prof. Wei Zhang](#) on High-Radix Fast Fourier Transform for CNN Accelerator on FPGA using HLS) 2021.09-2022.02

Publications [[Google Scholar](#): 0k+ citations and an h-index of 1]

2025.....

1. *ReVEAL: Reverse Engineering of Multiplier Architectures via Graph Learning for Computer Algebra Verification*
Chen Chen, Daniela Kaufmann, Chenhui Deng, Hongce Zhang, and Cunxi Yu
IWLS 2025
2. *E-morphic: Scalable Equality Saturation for Structural Exploration in Logic Synthesis*
Chen Chen *, Guangyu Hu *, Cunxi Yu, Yuzhe Ma, and Hongce Zhang
DAC 2025
3. *BoolE: Exact Symbolic Reasoning via Boolean Equality Saturation*
Jiaqi Yin, Zhan Song, **Chen Chen**, Qihao Hu, and Cunxi Yu
DAC 2025 (**Best Paper Nomination**)

2024.....

4. *E-Syn: E-Graph Rewriting with Technology-Aware Cost Functions for Logic Synthesis*
Chen Chen *, Guangyu Hu *, and Zuo Dongsheng, Cunxi Yu, Yuzhe Ma, and Hongce Zhang
DAC 2024

Awards

Best Paper Nomination at DAC 2025
3rd Place Award of EDathon Contest 2023

Service

- Artifact Evaluation Committee.....
- The 19th International Conference on Integrated Formal Methods (IFM2024)
- The 20th International Conference on Integrated Formal Methods (IFM2025)
- The 31th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS2025)