

# Chen Chen

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Last updated on June 15, 2025

## 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

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

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- 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)