

EDUCATION

Arizona State University

Tempe, US

PhD student in Electrical and Computer Engineering

2025 - -

- Advisor: Prof. Deliang Fan

Hong Kong University of Science and Technology (Guangzhou)

Guangzhou, China

MPhil in Microelectronic

2023 - 2025

- Advisor: Prof. Yuzhe Ma and Prof. Jiayi Huang

South China University of Technology

Guangzhou, China

B.E. in Microelectronics

2019 - 2023

ALL

PUBLICATIONS

Major Peer-reviewed Conference and Journal Papers

1. [ISLPED '25] Zexin FU, **Yihang Zuo**, Yuzhe Ma, and Jiayi Huang. Optimizing Heterogeneous Compute-in-Memory with Hybrid Dataflow and In-Network Reduction for Vision Transformer. *IEEE/ACM International Symposium on Low Power Electronics and Design (ISLPED)*, 2025 <https://doi.org/10.1109/DAC56929.2023.10247734>
2. [DAC '23] Zhuolun He, **Yihang Zuo**, Jiayi Jiang, Haisheng Zheng, Yuzhe Ma, and Bei Yu. OpenDRC: An Efficient Open-Source Design Rule Checking Engine with Hierarchical GPU Acceleration. *ACM/IEEE Design Automation Conference (DAC)*, 2023 <https://doi.org/10.1109/DAC56929.2023.10247734>
3. [AO] **Y. Zuo**, B. Liu, and K. Shao. Symmetrical indoor visible light layout optimized by a modified grey wolf algorithm. *Applied Optics*, 61(20):6016–6022, Jul 2022. <https://doi.org/10.1364/AO.458919>
4. [WHICEB]J. Wan, X. Liu, **Y. Zuo**, and J. Luo. Analysis on public opinion sentiment evolution of covid-19 based on weibo data. *WHICEB 2021 Proceedings*. 67. <https://aisel.aisnet.org/whiceb2021/67>

Minor Lightly-Reviewed Posters, Extended Abstracts, and Workshop Papers

1. [DATE'25] Tianchu Dong, Shaoxuan Li, **Yihang Zuo**, Hongwu Jiang, Yuzhe Ma and Shanshi Huang. OpenC²: An Open-Source End-to-End Hardware Compiler Development Framework for Digital Compute-in-Memory Macro *Proceedings of the 2025 Design, Automation and Test in Europe Conference*

SKILLS

Languages: Chinese, English

Programming: Python, C++, MATLAB, CUDA, LATEX.

Software: NeuroSim, OpenRoad, KLayout, ABC, OpenDRC, Qrouter, and other open EDA design flow software

HIGHLIGHT PROJECT	Physical Verification	02/2022 – 11/2023
	<ul style="list-style-type: none"> – Affiliation: Shanghai Artificial Intelligence Lab – Collaborator: Dr.Zhuolun HE, Prof. Yuzhe MA, and Prof. Bei YU – Participation (Done): Design and implement the sequential algorithm for design rule checking (DRC). 	DAC 23
	Hybrid CIM-based AI Accelerator for vision transformer	11/2023 – 08/2025
	<ul style="list-style-type: none"> – Affiliation: Hong Kong University of Science and Technology (Guangzhou) – Collaborator: Prof.Yuzhe MA, Prof.Jiayi HUANG, Prof.Hongwu Jiang, and Prof.Shanshi Huang 	
	Indoor visible light communication system	11/2021 – 04/2022
	<ul style="list-style-type: none"> – Affiliation: South China University of Technology – Participation: Propose a modified grey wolf algorithm to optimize the VLC system layout, which will likely jump out of the local optimal solution. 	AO 22
AWARDS AND HONORS	• Postgraduate Studentship, HKUST(GZ) 120,000RMB/year	09/2023-current
	• JieLi Scholarship, SCUT 5000RMB	09/2021
	• Academic Scholarship, SCUT 3000RMB	09/2021& 09/2022
	• Meritorious winner , Mathematical Contest in Modeling (MCM)	02/2021
	• 1st Prize in Guangdong province , China Undergraduate MCM	10/2020
	• 1st Prize in South China , China college IC competition	07/2022
	• 2nd Prize in Guangdong province , China Undergraduate MCM	10/2021
	• 3th Prize in South China , China college IC competition	07/2021
	• 3th Prize , China college IC competition	08/2022
	• Runner-up , SCUT debate competition	11/2020
EXPERIENCE AND SERVICE	Intern of Shanghai Artificial Intelligence Lab (Pujiang lab)	2022.09-2023.03
	Summer Course of University of Illinois Urbana-Champaign (UIUC)	2021.08
	Course of Hong Kong University of Science and Technology (HKUST)	2022.05
	Mentor of SCUT Undergraduate Admission Promotion in Henan Province	2021.01
	President of SCUT Microelectronics Association	2021.05 – 2022.09
	Excellent Social Practice Volunteer , SCUT	