

EDUCATION

Arizona State University	Tempe, US
<i>PhD student in Electrical and Computer Engineering</i>	2025 - --
• Advisor: Prof. Deliang Fan	
Hong Kong University of Science and Technology (Guangzhou)	Guangzhou, China
<i>MPhil in Microelectronic</i>	2023 - 2025
• Advisor: Prof. Yuzhe Ma and Prof. Jiayi Huang	
South China University of Technology	Guangzhou, China
<i>B.E. in Microelectronics</i>	2019 - 2023

ALL

PUBLICATIONS

Major Peer-reviewed Conference and Journal Papers

- [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>
- [DAC '23] Zhuolun He, Yihang Zuo, Jiaxi 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>
- [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>
- [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

- [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

- **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

- **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

- **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**