

# JIADONG ZHU

Ph.D. student ◊ Microelectronics Thrust  
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## RESEARCH INTERESTS

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- AI for chip design
- Electronic design automation (EDA)
- FPGA architecture
- Chiplet

## EDUCATION

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<b>HKUST(GZ), Guangzhou, China</b> Ph.D. Microelectronics Advisor: Yuzhe Ma	Feb. 2025 – Jul. 2028
<b>HKUST(GZ), Guangzhou, China</b> M.Phil. Microelectronics Thesis: Exploring FPGA Architecture for Deep Learning Acceleration Advisor: Yuzhe Ma	Aug. 2022 – Jul. 2024
<b>Shanghai University, Shanghai, China</b> B.Eng. Electrical Engineering and Automation	Sep. 2018 – Jul. 2022

## PUBLICATIONS

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† denotes equal contribution.

### Journal Papers

- [J1] Dongsheng Zuo †, **Jiadong Zhu** †, Yikang Ouyang, and Yuzhe Ma, “RL-MUL 2.0: Multiplier Design Optimization with Parallel Deep Reinforcement Learning and Space Reduction”, ACM Transactions on Design Automation of Electronic Systems (**TODAES**).

### Conference Papers

- [C3] Yikang Ouyang, Xiaofei Yu, **Jiadong Zhu**, and Yuzhe Ma, “Efficient Continuous Logic Optimization with Diffusion Model”, ACM/IEEE Design Automation Conference (**DAC**), San Francisco, Jun. 22-25, 2025.
- [C2] **Jiadong Zhu**, Dongsheng Zuo, and Yuzhe Ma, “A Holistic FPGA Architecture Exploration Framework for Deep Learning Acceleration”, IEEE/ACM Asian and South Pacific Design Automation Conference (**ASPDAC**), Tokyo, Jan. 20-23, 2025.
- [C1] Dongsheng Zuo, **Jiadong Zhu**, Chenglin Li, and Yuzhe Ma, “UFO-MAC: A Unified Framework for Optimization of High-Performance Multipliers and Multiply-Accumulators”, IEEE/ACM International Conference on Computer-Aided Design (**ICCAD**), New Jersey, Oct. 27–31, 2024.

## EXPERIENCE

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<b>Research Assistant</b> HKUST(GZ) Guangzhou, China	Sep. 2024 – Jan. 2025
<b>Engineering Intern</b> Festo (China) Ltd. Shanghai, China	Dec. 2021 – May. 2022
<b>Engineering Intern</b> SAIC Motor Passenger Vehicle Co., Ltd. Shanghai, China	Aug. 2021 – Oct. 2021

**Engineering Intern**  
Shanghai Automation Instrumentation Co., Ltd.  
Shanghai, China

Jul. 2021 – Aug. 2021

**Engineering Intern**  
Shanghai Automation Instrumentation Co., Ltd.  
Shanghai, China

Jul. 2020 – Sep. 2020

## AWARDS AND HONORS

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- [A6] **PhD Full Postgraduate Studentship**, HKUST(GZ), 2025 – 2028.
- [A5] **MPhil Full Postgraduate Studentship**, HKUST(GZ), 2022 – 2024.
- [A4] **First-Class Academic Scholarship**, SHU, 2021.
- [A3] **Flama Outstanding Scholarship**, SHU, 2020.
- [A2] **Self-Discipline Scholarship**, SHU, 2020.
- [A1] **China International College Students' "Internet+" Innovation and Entrepreneurship Competition Second Prize**, SHU, 2020.

## GRADUATE-LEVEL COURSES

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MICS5520: Physical Design Automation of Digital Systems  
IOTA5501: Convex and Nonconvex Optimization  
MICS6000U: ML Accelerators  
MICS6000L: Computer Architecture  
MICS6000Q: VLSI Design Optimization and Closure