

WENJI FANG

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EDUCATION

Hong Kong University of Science and Technology 2024 – Present

Ph.D. in Electronic and Computer Engineering, supervised by Prof. Zhiyao Xie

Hong Kong University of Science and Technology (Guangzhou) 2022 – 2024

M.Phil. in Microelectronics, supervised by Prof. Hongce Zhang and Prof. Zhiyao Xie

Nanjing University of Aeronautics and Astronautics 2017 – 2021

B.Eng. in Electrical Engineering and Automation

WORK EXPERIENCE

Hong Kong University of Science and Technology (Guangzhou) Dec. 2021 – Jul. 2022

Research Assistant Advisor: Prof. Hongce Zhang

Formal property verification of microprocessors

Peng Cheng National Laboratory Jul. 2021 – Dec. 2021

Digital IC Physical Design Intern Advisor: Dr. Biwei Xie

Physical design of an SoC and tape-out

PUBLICATIONS

1. **Wenji Fang**, Shang Liu, Hongce Zhang, and Zhiyao Xie, "Annotating Slack Directly on Your Verilog: Fine-Grained RTL Timing Evaluation for Early Optimization". *IEEE/ACM Design Automation Conference (DAC)*, 2024.
2. Shang Liu, **Wenji Fang**, Yao Lu, Qijun Zhang, Hongce Zhang, and Zhiyao Xie, "RTLCoder: Outperforming GPT-3.5 in Design RTL Generation with Our Open-Source Dataset and Lightweight Solution". *IEEE International Workshop on LLM-Aided Design (LAD)*, 2024.
3. **Wenji Fang**, Yao Lu, Shang Liu, Qijun Zhang, Ceyu Xu, Lisa Wu Wills, Hongce Zhang, and Zhiyao Xie, "MasterRTL: A Pre-Synthesis PPA Estimation Framework for Any RTL Design". *IEEE/ACM International Conference on Computer Aided Design (ICCAD)*, 2023.
4. **Wenji Fang**, Guangyu Hu, and Hongce Zhang, "r-map: Relating Implementation and Specification in Hardware Refinement Checking". *IEEE Transactions on Computer Aided Design of Integrated Circuits and systems (TCAD)*, 2023.
5. **Wenji Fang**, and Hongce Zhang, "WASIM: A Word-level Abstract Symbolic Simulation Framework for Hardware Formal Verification". *International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)*, 2023.

HONORS AND AWARDS

DAC Young Fellow	2024
Full Postgraduate Studentship, HKUST	2024-2028
ICCAD Student Scholar Program	2023
3rd Place Award of EDATHON Contest	2023
Full Postgraduate Studentship, HKUST(GZ)	2022-2024
Infineon Technology Scholarship	2020
Academic Scholarship, NUAA	2017-2021

TEACHING ASSISTANT

MICS6000H Logic Design Automation of Digital Systems	2023 Fall
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