

Ruijie Gao

PhD Student / Graduate Research Assistant

Ann Arbor, MI, USA

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Research Interests

My research interests lie at the intersection of Computer Architecture and Electronic Design Automation (EDA), with a focus on CPU microarchitecture, formal verification logic synthesis, and agile hardware design.

Education

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| 2025 - Present | University of Michigan , Ann Arbor, MI
<i>Ph.D. in Computer Science and Engineering</i> |
| 2021 - 2025 | University of Glasgow , Glasgow, UK
<i>B. Eng. in Electrical and Electronics Engineering (Hons)</i> |
| 2021 - 2025 | University of Electronic Science and Technology of China
<i>B. Eng. in Electrical and Electronics Engineering (Dual Degree)</i> |

Publications

- Jian Weng, Boyang Han, Derui Gao, **Ruijie Gao**, Wanning Zhang, An Zhong, Ceyu Xu et al. *Assassyn: A Unified Abstraction for Architectural Simulation and Implementation*. In **Proceedings of the 52nd Annual International Symposium on Computer Architecture** (ISCA 2025)
- Zhongzhi Yu, Zheng Wang, Yuhao Li, **Ruijie Gao**, Xiaoya Zhou, Sreenidhi Reddy Bommu, Yang Zhao, and Yingyan Lin. *Edge-llm: Enabling efficient large language model adaptation on edge devices via unified compression and adaptive layer voting*. In **Proceedings of the 61st ACM/IEEE Design Automation Conference** (DAC 2024)

Experience

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| 08/2025 - Present | University of Michigan, Ann Arbor
<i>Graduate Research Assistant</i>
Supervised by Prof. Nathaniel Bleier |
| 02/2025 - 07/2025 | University of Michigan, Ann Arbor
<i>Undergraduate Research Assistant</i> |
| 05/2024 - 09/2024 | King Abdullah University of Science and Technology
<i>Research Intern</i>
Supervised by Prof. Jian Weng. |

Teaching Experience

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| UofGlasgow
& UESTC | Lead Teaching Assistant , Spring 2024, 2025
UESTC2004: Embedded Processors |
| | Teaching Assistant , Spring 2024, 2025
UESTC1008: Microelectronic Systems |

| **Teaching Assistant**, Fall 2022, 2023, 2024
| UESTC1005: Introductory Programming

Honors & Awards

2025	ISCA 2025 Student Travel Gran , IEEE Technical Committee on Computer Communication (TCCC)
2024 - 2025	Graduate Teaching Assistant Excellence Award , UofG & UESTC Joint School
2023 - 2024	Graduate Teaching Assistant Excellence Award , UofG & UESTC Joint School