TIANAO GE

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EDUCATION

The Hong Kong University of Science and Technology (Guangzhou)
Ph.D. in Microelectronics
Advisor: Dr. Xiaowen Chu and Dr. Hongyuan Liu
University of Pittsburgh
Visiting Student, Department of Computer Science
Hosted by: Dr. Xulong Tang
Sun Yat-sen University
Master in Computer Science
Advisor: Dr. Xianwei Zhang
Wuhan University of Technology
Sept. 2020 – June 2022
Sept. 2016 – June 2020

PUBLICATIONS

MICRO 2025

B.E. in Software Engineering

CCF A	Pattern Regex Matching on GPUs", In Proceedings of the 58th Annual IEEE/ACM International Symposium on Microarchitecture, 2025.
$\begin{array}{c} \mathbf{ACM\ TOCS} \\ CCF\ A \end{array}$	<u>Tianao Ge</u> , Tong Zhang, Hongyuan Liu, "Towards Scalable and Non-blocking Automata Processing on GPUs with ngAP", <i>ACM Transactions on Computer Systems</i> , 2025.
ASPLOS 2024	Tianao Ge , Tong Zhang, Hongyuan Liu, "ngAP: Non-blocking Large-scale Automata Processing on GPUs", In Proceedings of the 28th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2024.
LCTES 2022 CCF B	<u>Tianao Ge</u> , Zewei Mo, Kan Wu, Xianwei Zhang, Yutong Lu, "RollBin: Reducing Code-Size via Loop Rerolling at Binary Level", <i>In Proceedings of the 23rd ACM SIG-PLAN/SIGBED International Conference on Languages, Compilers, and Tools for Embedded Systems</i> , 2022.
$egin{array}{c} ext{CCGrid} & ext{2022} \ ext{CCF} & ext{C} \end{array}$	Yue Weng, <u>Tianao Ge</u> , Xi Zhang, Xianwei Zhang, Yutong Lu, "RAISE: Efficient GPU Resource Management via Hybrid Scheduling", <i>In Proceedings of the 22nd IEEE International Symposium on Cluster, Cloud and Internet Computing</i> , 2022.

Tianao Ge, Xiaowen Chu, Hongyuan Liu, "Interleaved Bitstream Execution for Multi-

EXPERIENCE

• University of Pittsburgh	Jan. 2024 – June 2024
Visiting Student, hosted by: Prof. Xulong Tang	Pittsburgh, PA, USA
Characterized and optimized the gather-matmul-scatter workload.	
• Intel	May 2021 - Oct. 2021
Software Engineer Intern	Shanghai, China
Developing and optimizing deep learning compilers for Intel CPU.	
• SenseTime	Mar. 2021 - Apr. 2021
Researcher Intern	Shenzhen, China
Worked on GPU computing on mobile devices.	
• Tencent	Dec. 2019 - July 2020
Software Engineer Intern	Shanghai, China
Developed and optimized a multi-platform real-time 3D graphic engine.	

SELECTED HONORS & AWARDS

• ASPLOS'24 Student Travel Grant, SIGPLAN	2024
• ASPLOS'24 Best Paper Award, ACM	2024
• Third-Prize Scholarship, Sun Yat-sen University	2021
• Outstanding Graduate, Wuhan University of Technology	2020
• Excellent Student, Wuhan University of Technology	
• First-Prize Scholarship (Top 5%), Wuhan University of Technology	

TEACHING

Teaching Assistant of MICS6000R: Advanced Compilers. Spring 2024, HKUST(GZ).

Teaching Assistant of MICS6000J: GPU Architectures and Programming. Fall 2023, HKUST(GZ).

Teaching Assistant of DCS5637: Advanced Computer Architecture . Fall 2021, SYSU.

PROFESSIONAL SERVICE

Artifact Evaluation Committee: ASPLOS 2024 2025, MICRO 2023, EuroSys 2023

Sub-Reviewer: ICCD 2023 2025