

Zhixiong Xiao

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EDUCATION

Shandong University , M.Eng. in Computer Science and Technology	Sep. 2022 – Jun. 2025
• GPA: 4.02/5.00	
Dalian Maritime University , B.Eng. in Computer Science and Technology	Sep. 2018 – Jun. 2022
• GPA: 3.96/5.0	

EXPERIENCE

Research Assistant , School of Computer Science and Technology, Shandong University	Sep. 2025 – Jul. 2026
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PUBLICATIONS

PARS: Optimizing High-Dimensional Vector Search with Dimensional Reduction and Ray Tracing Core	Jan. 2026
Yiling Ma, Mengbai Xiao, <i>Zhixiong Xiao</i> , Yuan Yuan, Dongxiao Yu, Guanghui Zhang, Feng Li 46th IEEE International Conference on Distributed Computing Systems (ICDCS), 2026	
A Case Study for Ray Tracing Cores: Performance Insights with Breadth-First Search and Triangle Counting in Graphs	Jan. 2025
<i>Zhixiong Xiao</i> , Mengbai Xiao, Yuan Yuan, Dongxiao Yu, Rubao Lee, Xiaodong Zhang International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), 2025	
Perceptually Driven Color Ordering for Palette Design	Jul. 2022
<i>Zhixiong Xiao</i> , Wensong Xu, Qiong Zeng Journal of Computer-Aided Design & Computer Graphics	

SCHOLARSHIPS

• Third-Class Academic Scholarship, Shandong University	Oct. 2024
• First-Class Academic Scholarship, Shandong University	Nov. 2023
• Weichai Power Scholarship, Shandong University	Oct. 2023
• Second-Class Academic Scholarship for New Students, Shandong University	Oct. 2022
• Competition Scholarship, Dalian Maritime University	Dec. 2020
• National Encouragement Scholarship, Dalian Maritime University	Nov. 2019

AWARDS

• Outstanding Graduate of Dalian Maritime University	May 2022
• Bronze Medal, The 45th ACM International Collegiate Programming Contest (ICPC), Shenyang Site	Jul. 2021
• Second Prize, C/C++ Group, The 12th Lanqiao Cup National Software and Information Technology Talent Competition, National Finals	Jun. 2021
• Bronze Medal, The 45th ACM International Collegiate Programming Contest (ICPC), Yinchuan Site	May 2021
• Third Prize (Individual), The 6th China Collegiate Computing Contest - Group Programming Ladder Tournament, National Final	May 2021
• Silver Medal, The 5th China Collegiate Computing Contest - Group Programming Ladder Tournament, National Final	Dec. 2020
• Bronze Medal, The 6th China Collegiate Programming Contest (CCPC), Changchun Site	Nov. 2020

- Third Prize, The 14th Northeastern China Collegiate Programming Contest Oct. 2020
- Third Prize of Liaoning Provincial National Undergraduate Mathematical Contest in Modeling Oct. 2019
- Third Prize, Dalian Mathematics Competition Jun. 2019

INTERESTS AND SKILLS

Interests: Computer Systems, High Performance Computing, GPU Architecture, Vector Search

Programming Skills: C, C++, CUDA, Python, Triton, OpenMP, OptiX, Git

TEACHING EXPERIENCE

Teaching Assistant at Shandong University

- Data Structures and Algorithms, Instructor: Mengbai Xiao Fall 2024
- Data Structures and Algorithms, Instructor: Mengbai Xiao Fall 2023
- Curriculum Design for Operating Systems, Instructor: Qiang Yang Spring 2023