

An Zhong

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EDUCATION

Jilin University

B.S. in Computer Science and Technology

Changchun, China

Sep. 2021 - July 2025 (expected)

- **Overall GPA:** 3.85/4.00 **Rank:** 7/375
- **Core Courses:** Computer Architecture (93), Operating System (91), Microcomputer System (96.7), Compiler Principle and Implementation (92.3), Computer Control of Technology (97), Foundation of Artificial Intelligence (100), Fundamentals of Programming (94), Probability and Statistics A (97)

RESEARCH EXPERIENCE

Acceleration of microarchitecture-level fault injection process for GPUs

Sep. 2023 - April 2024

Research Intern

Advisor: Jingweijia Tan, Jilin University & Guanpeng Li, University of Iowa

- Developed models categorizing the hardware faults' early behaviors into GPU early fault manifestation models.
- Revealed the relationship between early fault behaviors with final fault outcomes.
- Proposed a fast and accurate error resilience evaluation framework GEREM for GPU microarchitecture.

PROJECTS

Estrus Detection in Beef Cattle via Multimodal Learning

Oct. 2022 - May 2023

National College Student Innovation Training Program

Advisor: Hui Kang, Jilin University

- Reviewed multimodal learning approaches for binary classification and latest approaches for estrus detection.
- Designed a model using both behavioral data and image inputs for accurate estrus identification.

Enabling Software Compatibility on Domestic Operating Systems

Jan. 2024 - April 2024

cooperative project with Zhongke Fangde Software Co., Ltd.

Advisor: Huaxiao Liu, Jilin University

- Collaborated in the adaptation of open-source software on domestic OS.
- Developed RPM SPEC files and conducted build tests with Koji, ensuring cross-platform compatibility.

PUBLICATIONS

GEREM: Fast and Precise Error Resilience Assessment for GPU Microarchitectures

Jingweijia Tan*, Xurui Li, **An Zhong**, Kaige Yan, Xiaohui Wei, Guanpeng Li

IEEE Transactions on Parallel and Distributed Systems, 2024 (CCF-A), Under Major Revision

Honors and Awards

- National Inspirational Scholarship (¥5000) 2022
- Outstanding Student of the University (Top 5%) 2022, 2023, 2024
- Provincial First Prize, National College Student Mathematical Modeling Competition (Top 10%) 2022
- Second Prize, Huawei Software Elite Challenge (Beijing-Hebei Northeast Division) 2023
- Huawei Scholarship Nominee (Top 5 in the University) 2024

SKILLS

- **Programming:** C, C++, Python, Shell, SQL, CUDA
- **TOEFL:** 95 (overall score) Listening: 25 — Reading: 25 — Speaking: 22 — Writing: 23 Test date: Sep. 2024