BINGYAO LI

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EDUCATION

University of Pittsburgh   Aug. 2020 - Present
Ph.D. in Computer Science
Advisor: Dr. Xulong Tang

Tianjin University   Sep. 2017 - Jan. 2020
M.S. in Computer Science and Technology
Advisor: Dr. Ce Yu, Graduated with Honor

Tianjin University   Sep. 2013 - July 2017
B.E. in Computer Science and Technology
Graduated with Honor

PUBLICATIONS

[1] Bingyao Li[*], Qi Xue[*], Geng Yuan[*], Sheng Li, Xiaolong Ma, Yanzhi Wang and Xulong Tang,
"Optimizing Data Layout for Training Deep Neural Networks,"
WWW 2022 workshop.
[*] The authors contribute equally.

[2] Bingyao Li, Jieming Yin, Youtao Zhang, Xulong Tang,
"Improving Address Translation in Multi-GPUs via Sharing and Spilling aware TLB Design,"
MICRO 2021.

[3] Bingyao Li, Ce Yu, Chen Li, Xiaoteng Hu, Jian Xiao, Shanjiang Tang, Chenzhou Cui, and Dongwei Fan,
"mcatCS: A Highly Efficient Cross-Matching Scheme for Multi-Band Astronomical Catalogs,"
Publication of the Astronomical Society of the Pacific, 2019, 131(999).

[4] Ce Yu, Bingyao Li, Jian Xiao, Chao Sun, Shanjiang Tang, Chongke Bi, Chenzhou Cui, and Dongwei Fan,
"Astronomical Data Fusion: Recent Progress and Future Prospects - A Survey,"
Springer Experimental Astronomy, 2019(6).

[5] Bingyao Li, Ce Yu, Xiaoteng Hu, Jian Xiao, Shanjiang Tang, Lianmeng Li, Bin Ma,
"An Efficient Retrieval Method for Astronomical Catalog Time Series Data,"
ICA3PP 2018.

[6] Xiaoteng Hu, Ce Yu, Bingyao Li, Shanjiang Tang, Jian Xiao, Yanyan Huang,
"GAIDR: An Efficient Time Series Subsets Retrieval Method for Geo-Distributed Astronomical Data,"
IEEE HPCC 2018.

RESEARCH EXPERIENCE

University of Pittsburgh   2020 - Present
Research Assistant/Teaching assistant
Advisor: Dr. Xulong Tang
- Optimize address translation in multi-GPU

Tianjin University 2017 - 2020
Research Assistant
Advisor: Dr. Ce Yu
- Develop time series subsets retrieval system for large-scale astronomical image data
- Optimize cloud-based storage for long-term astronomical archive data
- Propose a distributed cross-matching scheme for billion-row astronomical data
- Propose an automatic method for cross-matching celestial objects accurately

ICT of Chinese Academy of Science, Beijing 2019 Summer
Visiting Scholar
Advisor: Dr. Yungang Bao
- Port latency-sensitive benchmark to RISC-V architecture
- Evaluate the performance of Tailbench-Riscv on LvNA (Labeled RISC-V)

SELECTED HONORS & AWARDS

CS50 Fellowship, University of Pittsburgh 2022
SCI Fellowship, University of Pittsburgh 2020
National Scholarship, Ministry of Education of China 2019
Graduate Scholarship - First Prize, Tianjin University 2017, 2019

TEACHING

- Teaching Assistant of CS 1550: Introduction to Operating Systems, Pitt, Fall 2021